

# Occupational Compensation Survey: Pay Only

# St. Louis, Missouri—Illinois, Metropolitan Area, March 1995

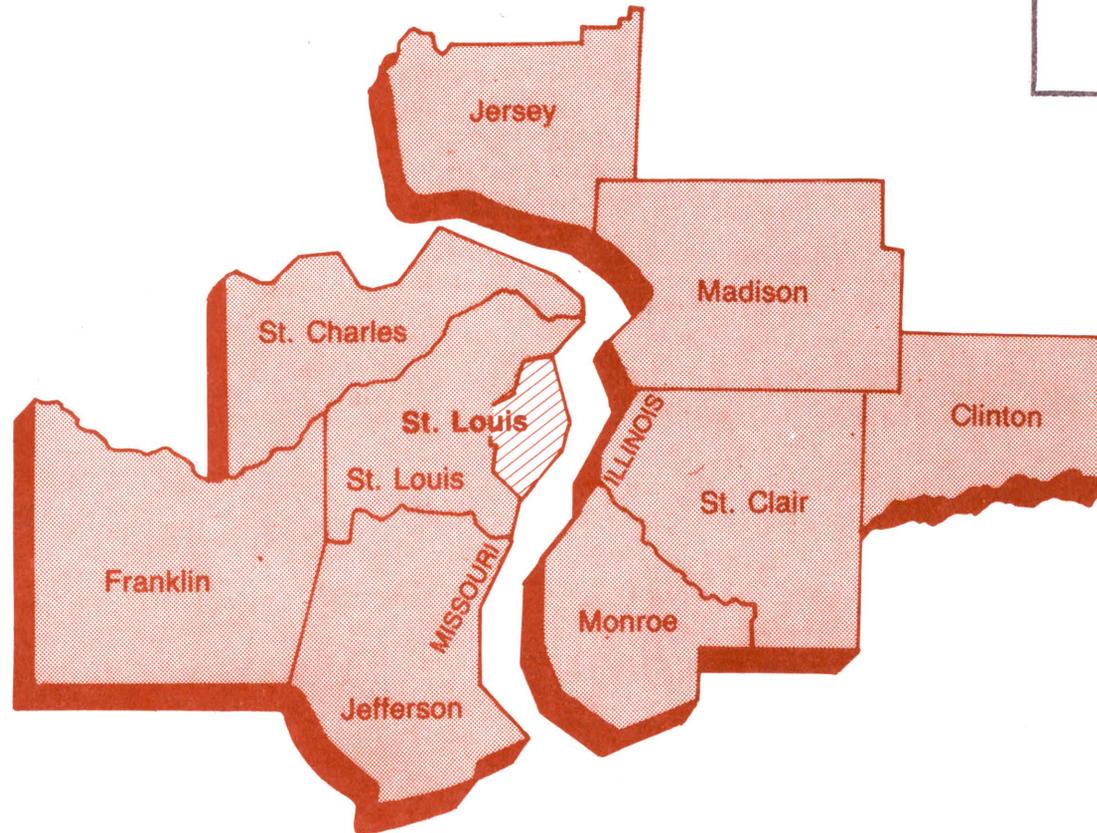


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## Preface

This bulletin provides results of a March 1995 survey of occupational pay in the St. Louis, MO—IL Metropolitan Statistical Area. This survey was conducted as part of the U.S. Bureau of Labor Statistics Occupational Compensation Survey Program. Data from this program are for use in implementing the Federal Employees Pay Comparability Act of 1990. The survey was conducted by the Bureau's regional office in Kansas City, under direction of Stanley W. Suchman, Assistant Regional Commissioner for Operations.

The survey could not have been conducted without the cooperation of the many private firms and government jurisdictions that provided pay data included in this bulletin. The Bureau thanks these respondents for their cooperation.

For additional information regarding this survey or similar conducted in this regional area, please contact the BLS Kansas Regional Office at (816) 426-2481. You may also write to the Bureau of Labor Statistics at: Division of Occupational Pay and Employee Income, 2 Massachusetts Avenue, NE, Washington, D.C. 20212-0001 or Occupational Compensation Survey Program information line 606-6220.

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For an account of a similar survey conducted in 1994, see *Occupational Compensation Survey: Pay Only, St. Louis, MO—IL*, BLS Bulletin 3075-13.

# Occupational Compensation Survey: Pay Only

# St. Louis, Missouri—Illinois, Metropolitan Area, March 1995



U.S. Department of Labor  
Robert B. Reich, Secretary

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Bureau of Labor Statistics  
Katharine G. Abraham,  
Commissioner

August 1995

Bulletin 3080-13

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# Introduction

This survey of occupational pay in the St. Louis, MO—IL Metropolitan Statistical Area (St. Louis City; Franklin, Jefferson, St. Charles, and St. Louis Counties; and Sullivan City in Crawford County, MO; and Clinton, Jersey, Madison, Monroe, and St. Clair Counties, IL) was conducted as part of the U.S. Bureau of Labor Statistics Occupational Compensation Survey Program. The survey is one of a number of metropolitan areas surveyed annually throughout the United States. (See listing of reports for other surveys at the end of this bulletin.)

A major objective of the Occupational Compensation Survey Program is to describe the level and distribution of occupational pay in a variety of the Nation's local labor markets, using a consistent survey approach. Another Program objective is to provide information on the incidence of employee benefits among and within local labor markets. However, no benefits data were collected for this survey.

The Program develops information that is used for a variety of purposes, including wage and salary administration, collective bargaining, and assistance in determining business or plant location. Survey results also are used by the U.S. Department of Labor in making wage determinations under the Service Contract Act, and by the President's Pay Agent (the Secretary of Labor and Directors of the U.S. Office of Personnel Management and the U.S. Office of Management and Budget) in determining local pay adjustments under the Federal Employee Pay Comparability Act of 1990. This latter requirement resulted in: (1) Expanding the survey's industrial coverage to include all private nonfarm establishments (except households) employing 50 workers or more and to State and local governments and

(2) adding more professional, administrative, technical, and protective service occupations to the surveys.

## Pay

The A-series tables provide estimates of straight-time weekly or hourly pay by occupation. Tables A-1 through A-5 provide data for selected white- and blue-collar occupations common to a variety of industries. Tables A-6 through A-10 include similar information, but are limited to establishments employing 500 workers or more. Tables A-11 and A-12 present separate occupational pay information for the health services industry.

Occupational pay information is presented for all industries covered by the survey and, where possible, for private industry (e.g., for goods- and service-producing industries) and for State and local governments. Within private industry, more detailed information is presented to the extent that the survey establishment sample can support such detail.

## Appendixes

Appendix A describes the concepts, methods, and coverage used in the Occupational Compensation Survey Program. It also includes information on the area's industrial composition and the reliability of occupational pay estimates.

Appendix B includes the descriptions used by Bureau field economists to classify workers in the survey occupations.

**Table A-1. All establishments: Weekly hours and pay of professional and administrative occupations, St. Louis, MO-IL, March 1995**

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>			Percent of workers receiving straight-time weekly pay (in dollars) of—																					
			Mean	Median	Middle range	300 and under 350	350 - 400	400 - 450	450 - 500	500 - 600	600 - 700	700 - 800	800 - 900	900 - 1000	1000 - 1100	1100 - 1200	1200 - 1300	1300 - 1400	1400 - 1500	1500 - 1600	1600 - 1800	1800 - 2000	2000 - 2200	2200 - 2400	2400 - 2600	2600 and over	
<b>PROFESSIONAL OCCUPATIONS</b>																											
<b>Accountants</b>																											
Level I .....	375	39.9	\$497	\$487	\$454 - \$542	( <sup>3</sup> )	7	16	34	35	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	349	39.9	498	490	454 - 542	( <sup>3</sup> )	7	16	32	36	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Goods-producing industries .....	141	40.0	537	542	490 - 560	-	-	13	14	62	8	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufacturing .....	97	40.0	533	520	460 - 570	-	-	19	21	44	11	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Service-producing industries .....	208	39.9	471	462	423 - 498	( <sup>3</sup> )	13	18	44	19	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Transportation and utilities .....	43	40.0	445	462	423 - 473	-	23	16	58	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Level II .....	790	39.9	595	587	529 - 650	-	( <sup>3</sup> )	6	8	39	38	7	2	1	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	706	39.9	596	590	529 - 654	-	( <sup>3</sup> )	6	7	39	38	7	2	1	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-
Goods-producing industries .....	339	40.0	640	635	567 - 690	-	-	1	1	35	47	10	4	1	1	-	-	-	-	-	-	-	-	-	-	-	-
Manufacturing .....	267	40.0	623	609	565 - 673	-	-	1	1	43	37	12	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-
Service-producing industries .....	367	39.8	556	558	501 - 606	-	( <sup>3</sup> )	11	12	43	30	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Transportation and utilities .....	31	40.0	566	-	-	-	-	-	-	77	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
State and local government .....	84	39.7	581	576	525 - 635	-	-	-	13	44	36	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Level III .....	787	39.9	756	753	692 - 811	-	-	-	1	5	21	46	19	9	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	725	39.9	759	748	695 - 813	-	-	-	1	4	22	45	18	9	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-
Goods-producing industries .....	277	39.9	772	756	712 - 815	-	-	-	1	4	13	51	16	13	1	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-
Manufacturing .....	237	39.9	769	758	712 - 812	-	-	-	-	3	14	52	19	11	1	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-
Service-producing industries .....	448	40.0	750	748	683 - 813	-	-	-	( <sup>3</sup> )	3	28	42	20	7	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-
Transportation and utilities .....	49	40.0	765	780	673 - 813	-	-	-	-	-	33	18	37	12	-	-	-	-	-	-	-	-	-	-	-	-	-
State and local government .....	62	39.8	730	769	654 - 785	-	-	-	-	18	13	50	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Level IV .....	623	40.0	992	989	888 - 1,087	-	-	-	-	( <sup>3</sup> )	3	9	13	29	21	12	8	3	1	-	-	-	-	-	-	-	-
Private industry .....	571	40.0	998	990	904 - 1,110	-	-	-	-	1	2	9	12	31	20	13	8	4	1	-	-	-	-	-	-	-	-
Goods-producing industries .....	335	40.0	1,025	990	907 - 1,180	-	-	-	-	1	( <sup>3</sup> )	6	10	35	19	12	11	5	1	-	-	-	-	-	-	-	-
Manufacturing .....	274	39.9	1,001	990	904 - 1,074	-	-	-	-	1	( <sup>3</sup> )	8	11	36	22	15	6	2	1	-	-	-	-	-	-	-	-
Service-producing industries .....	236	40.0	961	977	849 - 1,058	-	-	-	-	( <sup>3</sup> )	5	12	16	25	22	14	4	1	1	-	-	-	-	-	-	-	-
Transportation and utilities .....	34	40.0	915	-	-	-	-	-	-	-	3	29	21	26	12	3	-	-	6	-	-	-	-	-	-	-	-
State and local government .....	52	40.0	916	910	809 - 1,048	-	-	-	-	-	17	6	27	12	35	4	-	-	-	-	-	-	-	-	-	-	-
Level V .....	262	40.0	1,227	1,235	1,082 - 1,364	-	-	-	-	-	1	2	5	7	13	12	29	12	4	3	( <sup>3</sup> )	-	-	-	-	-	-
Private industry .....	257	40.0	1,230	1,240	1,089 - 1,365	-	-	-	-	-	1	2	4	7	12	29	12	4	4	( <sup>3</sup> )	-	-	-	-	-	-	-
Goods-producing industries .....	133	40.0	1,259	1,288	1,098 - 1,400	-	-	-	-	-	2	3	5	6	11	14	14	16	17	7	7	1	-	-	-	-	-
Manufacturing .....	129	40.0	1,255	1,288	1,098 - 1,400	-	-	-	-	-	2	3	5	6	11	14	13	16	17	5	7	1	-	-	-	-	-
Service-producing industries .....	124	39.9	1,198	1,219	1,010 - 1,298	-	-	-	-	-	-	4	9	15	10	44	8	8	2	-	-	-	-	-	-	-	-
Transportation and utilities .....	28	40.0	1,324	-	-	-	-	-	-	-	-	-	-	-	7	50	11	25	7	-	-	-	-	-	-	-	-
Level VI .....	56	39.9	1,522	-	-	-	-	-	-	-	-	4	-	-	4	9	13	30	4	18	16	2	2	-	-	-	-
Private industry .....	56	39.9	1,522	-	-	-	-	-	-	-	-	4	-	-	4	9	13	30	4	18	16	2	2	-	-	-	-
<b>Accountants, Public</b>																											
Level I .....	90	40.0	558	552	548 - 560	-	-	-	-	92	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	90	40.0	558	552	548 - 560	-	-	-	-	92	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Service-producing industries .....	90	40.0	558	552	548 - 560	-	-	-	-	92	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Level II .....	141	40.0	600	594	577 - 625	-	-	-	-	55	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	141	40.0	600	594	577 - 625	-	-	-	-	55	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Service-producing industries .....	141	40.0	600	594	577 - 625	-	-	-	-	55	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



Table A-1. All establishments: Weekly hours and pay of professional and administrative occupations, St. Louis, MO-IL, March 1995 — Continued

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>			Percent of workers receiving straight-time weekly pay (in dollars) of—																							
			Mean	Median	Middle range	300 and under 350	350-400	400-450	450-500	500-600	600-700	700-800	800-900	900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1800	1800-2000	2000-2200	2200-2400	2400-2600	2600 and over			
<b>Level V:</b>																													
Private industry:																													
Service-producing industries .....	189	40.0	\$1,234	\$1,250	\$1,071 -- \$1,356	-	-	-	-	-	-	1	3	8	20	13	19	19	3	16	-	-	-	-	-	-	-	-	
State and local government .....	41	39.2	1,138	1,118	994 -- 1,220	-	-	-	-	-	-	-	-	29	5	24	32	5	5	-	-	-	-	-	-	-	-	-	
<b>Level VIII</b>																													
Private industry .....	68	40.0	2,025	-	- - -	-	-	-	-	-	-	-	-	-	-	-	-	4	3	15	50	4	9	3	12	-	-		
Private industry .....	68	40.0	2,025	-	- - -	-	-	-	-	-	-	-	-	-	-	-	-	4	3	15	50	4	9	3	12	-	-		
<b>Registered Nurses</b>																													
Level II .....	8,436	39.8	661	656	564 -- 755	-	( <sup>3</sup> )	1	7	26	29	23	15	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	8,074	39.8	664	660	565 -- 758	-	( <sup>3</sup> )	1	7	25	27	23	15	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	
Service-producing industries .....	8,029	39.8	664	659	564 -- 758	-	( <sup>3</sup> )	1	7	25	27	23	15	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	
State and local government .....	362	39.6	606	626	538 -- 652	-	1	1	9	28	54	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Level II specialists</b>																													
Private industry .....	571	40.0	725	750	662 -- 780	-	-	-	-	13	23	47	17	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	571	40.0	725	750	662 -- 780	-	-	-	-	13	23	47	17	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Service-producing industries .....	571	40.0	725	750	662 -- 780	-	-	-	-	13	23	47	17	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Level III</b>																													
Private industry .....	216	40.0	872	852	812 -- 929	-	-	-	-	-	5	16	50	17	6	4	2	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	205	40.0	873	854	810 -- 936	-	-	-	-	-	5	17	48	17	7	4	2	-	-	-	-	-	-	-	-	-	-	-	
Service-producing industries .....	205	40.0	873	854	810 -- 936	-	-	-	-	-	5	17	48	17	7	4	2	-	-	-	-	-	-	-	-	-	-	-	
<b>Level III anesthetists</b>																													
Private industry .....	67	40.0	1,500	-	- - -	-	-	-	-	-	-	-	-	-	-	-	10	24	27	13	21	3	1	-	-	-	-	-	
Private industry .....	65	40.0	1,497	-	- - -	-	-	-	-	-	-	-	-	-	-	-	11	25	28	11	22	3	2	-	-	-	-	-	
Service-producing industries .....	65	40.0	1,497	-	- - -	-	-	-	-	-	-	-	-	-	-	-	11	25	28	11	22	3	2	-	-	-	-	-	
<b>ADMINISTRATIVE OCCUPATIONS</b>																													
<b>Buyers/Contracting Specialists</b>																													
<b>Level I</b>																													
Private industry .....	154	40.0	498	500	439 -- 548	-	1	27	18	48	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	130	40.0	500	500	433 -- 550	-	2	29	10	52	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Goods-producing industries .....	64	40.0	524	-	- - -	-	-	9	-	86	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing .....	64	40.0	524	-	- - -	-	-	9	-	86	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Service-producing industries .....	66	40.0	476	-	- - -	-	3	48	20	20	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Level II</b>																													
Private industry .....	427	40.0	635	628	565 -- 685	-	-	( <sup>3</sup> )	11	29	39	11	7	2	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	406	40.0	635	628	565 -- 687	-	-	( <sup>3</sup> )	12	30	37	11	7	2	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Goods-producing industries .....	342	40.0	639	644	558 -- 696	-	-	-	14	25	38	12	8	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufacturing .....	315	40.0	627	625	558 -- 680	-	-	-	15	27	40	10	5	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Service-producing industries .....	64	40.0	614	-	- - -	-	-	2	-	56	31	8	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Level III</b>																													
Private industry .....	323	40.0	858	846	758 -- 950	-	-	-	( <sup>3</sup> )	( <sup>3</sup> )	8	30	23	25	11	3	1	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	315	40.0	859	844	758 -- 954	-	-	-	( <sup>3</sup> )	( <sup>3</sup> )	8	31	21	25	11	3	1	-	-	-	-	-	-	-	-	-	-	-	-
Goods-producing industries .....	249	40.0	835	817	756 -- 906	-	-	-	( <sup>3</sup> )	( <sup>3</sup> )	8	36	25	23	6	1	1	-	-	-	-	-	-	-	-	-	-	-	-
Manufacturing .....	208	40.0	810	790	744 -- 863	-	-	-	( <sup>3</sup> )	( <sup>3</sup> )	10	43	30	14	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-
Service-producing industries .....	66	40.0	949	-	- - -	-	-	-	2	-	8	11	5	35	30	11	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Level IV</b>																													
Private industry .....	135	40.0	963	929	862 -- 1,089	-	-	-	1	4	4	4	27	22	15	10	10	3	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	135	40.0	963	929	862 -- 1,089	-	-	-	1	4	4	4	27	22	15	10	10	3	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table A-1. All establishments: Weekly hours and pay of professional and administrative occupations, St. Louis, MO-IL, March 1995 — Continued

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>			Percent of workers receiving straight-time weekly pay (in dollars) of—																						
			Mean	Median	Middle range	300 and under 350	350 - 400	400 - 450	450 - 500	500 - 600	600 - 700	700 - 800	800 - 900	900 - 1000	1000 - 1100	1100 - 1200	1200 - 1300	1300 - 1400	1400 - 1500	1500 - 1600	1600 - 1800	1800 - 2000	2000 - 2200	2200 - 2400	2400 - 2600	2600 and over		
<b>Computer Programmers</b>																												
Level I .....	142	39.8	\$502	\$500	\$462 - \$519	-	1	5	42	49	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	133	39.8	503	500	462 - 519	-	1	2	44	50	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Service-producing industries .....	102	39.7	497	486	462 - 510	-	1	1	55	39	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Level II .....	556	39.9	585	583	524 - 635	-	-	1	14	42	35	8	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	528	39.9	584	581	522 - 635	-	-	1	15	41	34	8	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Goods-producing industries .....	114	40.0	625	621	580 - 667	-	-	-	1	39	45	14	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing .....	112	40.0	625	620	578 - 666	-	-	-	1	40	44	14	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Service-producing industries .....	414	39.9	573	570	502 - 616	-	-	1	19	42	31	6	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
State and local government .....	28	39.9	592	-	-	-	-	-	-	50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Level III .....	710	39.9	703	702	644 - 752	-	-	-	( <sup>3</sup> )	8	42	39	10	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	688	40.0	702	700	644 - 750	-	-	-	( <sup>3</sup> )	7	43	39	9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Goods-producing industries .....	149	39.9	752	750	719 - 788	-	-	-	-	5	19	55	17	4	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing .....	143	39.9	753	750	707 - 788	-	-	-	-	6	19	54	17	4	-	-	-	-	-	-	-	-	-	-	-	-	-	
Service-producing industries .....	539	40.0	688	676	637 - 743	-	-	-	( <sup>3</sup> )	8	49	35	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Transportation and utilities .....	94	40.0	698	704	655 - 747	-	-	-	-	12	35	45	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Level IV .....	84	40.0	860	869	778 - 943	-	-	-	-	5	26	31	27	11	-	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	77	40.0	855	-	-	-	-	-	-	5	27	34	22	12	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Computer Systems Analysts</b>																												
Level I .....	740	39.9	764	762	696 - 826	-	-	-	-	4	22	40	26	7	2	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	719	39.9	766	763	700 - 829	-	-	-	-	3	22	40	27	7	2	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-
Goods-producing industries .....	369	40.0	789	769	719 - 845	-	-	-	-	( <sup>3</sup> )	19	42	24	12	3	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-
Manufacturing .....	365	40.0	790	769	722 - 845	-	-	-	-	( <sup>3</sup> )	19	41	24	12	3	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-
Service-producing industries .....	350	39.8	743	740	683 - 823	-	-	-	-	6	25	38	30	1	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	
Level II .....	1,946	39.9	885	877	810 - 953	-	-	-	-	( <sup>3</sup> )	3	18	36	28	11	3	1	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	
Private industry .....	1,907	39.9	886	878	812 - 953	-	-	-	-	( <sup>3</sup> )	3	18	36	28	11	3	1	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	
Goods-producing industries .....	599	40.0	943	932	862 - 1,022	-	-	-	-	-	1	13	23	33	21	6	3	1	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	
Manufacturing .....	594	40.0	943	933	861 - 1,022	-	-	-	-	-	1	13	22	34	21	6	3	1	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	
Service-producing industries .....	1,308	39.9	861	859	802 - 919	-	-	-	-	1	4	20	42	26	7	1	-	-	-	-	-	-	-	-	-	-	-	
State and local government .....	39	39.6	829	-	-	-	-	-	-	-	23	23	21	21	13	-	-	-	-	-	-	-	-	-	-	-	-	
Level III .....	1,304	40.0	1,048	1,038	962 - 1,125	-	-	-	-	-	1	2	7	25	34	20	7	2	1	1	( <sup>3</sup> )	-	-	-	-	-	-	
Private industry .....	1,291	40.0	1,049	1,038	962 - 1,125	-	-	-	-	-	1	2	7	25	34	20	7	2	1	1	( <sup>3</sup> )	-	-	-	-	-	-	
Goods-producing industries .....	268	40.0	1,140	1,113	1,024 - 1,229	-	-	-	-	-	-	4	14	28	22	16	5	6	3	1	-	-	-	-	-	-	-	
Manufacturing .....	264	40.0	1,140	1,113	1,023 - 1,229	-	-	-	-	-	-	5	14	28	22	16	5	6	3	2	-	-	-	-	-	-	-	
Service-producing industries .....	1,023	40.0	1,025	1,029	955 - 1,100	-	-	-	-	1	2	8	28	35	20	5	1	-	-	-	-	-	-	-	-	-	-	
State and local government .....	13	39.2	973	-	-	-	-	-	-	-	8	8	8	23	46	8	-	-	-	-	-	-	-	-	-	-	-	
Level IV .....	183	39.9	1,243	1,263	1,157 - 1,322	-	-	-	-	-	-	-	-	2	15	16	37	19	7	3	1	-	-	-	-	-	-	
Private industry .....	182	39.9	1,244	1,263	1,161 - 1,322	-	-	-	-	-	-	-	-	2	15	16	37	19	7	3	1	-	-	-	-	-	-	
Service-producing industries .....	131	39.8	1,239	1,263	1,154 - 1,310	-	-	-	-	-	-	-	-	2	15	20	35	17	8	3	-	-	-	-	-	-	-	

See footnotes at end of table.

Table A-1. All establishments: Weekly hours and pay of professional and administrative occupations, St. Louis, MO-IL, March 1995 — Continued

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>			Percent of workers receiving straight-time weekly pay (in dollars) of—																						
			Mean	Median	Middle range	300 and under 350	350 - 400	400 - 450	450 - 500	500 - 600	600 - 700	700 - 800	800 - 900	900 - 1000	1000 - 1100	1100 - 1200	1200 - 1300	1300 - 1400	1400 - 1500	1500 - 1600	1600 - 1800	1800 - 2000	2000 - 2200	2200 - 2400	2400 - 2600	2600 and over		
<b>Computer Systems Analyst Supervisors/Managers</b>																												
Level I .....	198	40.0	\$1,169	\$1,120	\$1,022 - \$1,250	-	-	-	-	-	1	4	16	26	20	11	5	4	2	12	-	-	-	-	-	-	-	
Private industry:																												
Goods-producing industries .....	73	40.0	1,317	-	- - -	-	-	-	-	-	-	4	15	7	14	10	7	7	4	33	-	-	-	-	-	-	-	
Manufacturing .....	72	40.0	1,322	-	- - -	-	-	-	-	-	-	4	14	7	14	10	7	7	4	33	-	-	-	-	-	-	-	
Service-producing industries .....	117	40.0	1,080	1,058	1,012 - 1,162	-	-	-	-	-	2	3	18	40	20	12	3	2	-	-	-	-	-	-	-	-	-	
Level II .....	178	40.0	1,334	1,329	1,194 - 1,401	-	-	-	-	-	-	-	1	7	18	17	32	12	5	4	4	-	-	-	-	-	-	
Private industry .....	177	40.0	1,335	1,329	1,194 - 1,401	-	-	-	-	-	-	-	1	7	18	17	32	12	5	4	4	-	-	-	-	-	-	
Goods-producing industries .....	75	40.0	1,392	-	- - -	-	-	-	-	-	-	-	-	5	24	9	23	13	5	11	9	-	-	-	-	-	-	
Manufacturing .....	75	40.0	1,392	-	- - -	-	-	-	-	-	-	-	-	5	24	9	23	13	5	11	9	-	-	-	-	-	-	
Service-producing industries .....	102	40.0	1,293	1,320	1,204 - 1,356	-	-	-	-	-	-	1	-	8	14	23	39	11	5	-	-	-	-	-	-	-	-	
<b>Personnel Specialists</b>																												
Level I .....	77	39.9	492	-	- - -	-	8	17	43	21	10	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	66	40.0	487	-	- - -	-	9	18	45	15	11	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
State and local government .....	11	39.8	526	-	- - -	-	-	9	27	55	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Level II .....	359	40.0	597	577	537 - 638	-	-	1	11	52	22	10	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	317	40.0	594	577	529 - 623	-	-	1	12	54	19	9	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Goods-producing industries .....	92	40.0	631	615	542 - 688	-	-	-	7	42	29	11	8	3	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing .....	84	39.9	632	615	538 - 692	-	-	-	7	42	27	12	8	4	-	-	-	-	-	-	-	-	-	-	-	-	-	
Service-producing industries .....	225	40.0	578	569	525 - 603	-	-	1	15	59	15	8	1	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-	
State and local government .....	42	40.0	626	620	575 - 678	-	-	-	5	31	45	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Level III .....	383	40.0	763	762	689 - 829	-	-	-	1	7	21	34	27	6	2	1	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	357	40.0	764	762	689 - 827	-	-	-	1	8	20	35	27	6	3	1	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-
Goods-producing industries .....	110	40.0	797	806	727 - 856	-	-	-	-	10	13	25	31	15	4	2	1	-	-	-	-	-	-	-	-	-	-	
Manufacturing .....	110	40.0	797	806	727 - 856	-	-	-	-	10	13	25	31	15	4	2	1	-	-	-	-	-	-	-	-	-	-	
Service-producing industries .....	247	40.0	749	757	687 - 802	-	-	-	1	6	24	39	26	2	2	-	-	-	-	-	-	-	-	-	-	-	-	
Transportation and utilities .....	30	40.0	807	-	- - -	-	-	-	-	27	13	43	7	10	-	-	-	-	-	-	-	-	-	-	-	-	-	
State and local government .....	26	39.7	756	-	- - -	-	-	-	-	4	31	27	27	12	-	-	-	-	-	-	-	-	-	-	-	-	-	
Level IV .....	409	39.8	1,004	970	875 - 1,128	-	-	-	-	( <sup>3</sup> )	1	5	27	21	18	13	10	4	1	-	( <sup>3</sup> )	-	-	-	-	-	-	
Private industry .....	398	39.8	1,007	971	875 - 1,142	-	-	-	-	( <sup>3</sup> )	1	5	26	21	18	13	10	4	2	-	( <sup>3</sup> )	-	-	-	-	-	-	
Goods-producing industries .....	241	40.0	1,048	1,041	877 - 1,195	-	-	-	-	-	2	28	15	15	18	13	7	2	-	( <sup>3</sup> )	-	-	-	-	-	-	-	
Manufacturing .....	193	39.9	1,000	962	877 - 1,105	-	-	-	-	-	3	35	17	17	17	5	3	3	-	1	-	-	-	-	-	-	-	
Service-producing industries .....	157	39.5	944	921	836 - 1,037	-	-	-	-	1	3	9	24	30	22	6	4	1	1	-	-	-	-	-	-	-	-	
Level V .....	106	39.9	1,298	1,310	1,173 - 1,354	-	-	-	-	-	-	1	2	4	25	17	28	12	5	7	-	-	-	-	-	-	-	
Private industry .....	106	39.9	1,298	1,310	1,173 - 1,354	-	-	-	-	-	-	1	2	4	25	17	28	12	5	7	-	-	-	-	-	-	-	
Goods-producing industries .....	67	40.0	1,311	-	- - -	-	-	-	-	-	-	-	-	3	27	22	19	15	6	7	-	-	-	-	-	-	-	
Manufacturing .....	64	40.0	1,309	-	- - -	-	-	-	-	-	-	-	-	3	28	22	20	13	6	8	-	-	-	-	-	-	-	
Service-producing industries .....	39	39.7	1,275	-	- - -	-	-	-	-	-	-	3	5	5	21	8	44	8	3	5	-	-	-	-	-	-	-	

See footnotes at end of table.

**Table A-1. All establishments: Weekly hours and pay of professional and administrative occupations, St. Louis, MO-IL, March 1995 — Continued**

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>			Percent of workers receiving straight-time weekly pay (in dollars) of—																				
			Mean	Median	Middle range	300 and under 350	350 - 400	400 - 450	450 - 500	500 - 600	600 - 700	700 - 800	800 - 900	900 - 1000	1000 - 1100	1100 - 1200	1200 - 1300	1300 - 1400	1400 - 1500	1500 - 1600	1600 - 1800	1800 - 2000	2000 - 2200	2200 - 2400	2400 - 2600	2600 and over
<b>Personnel Supervisors/Managers</b>																										
Level I:																										
State and local government .....	8	40.0	\$1,007	-	-	-	-	-	-	-	-	-	25	13	-	25	13	25	-	-	-	-	-	-	-	-
Level II .....	62	40.0	1,350	-	-	-	-	-	-	-	-	-	2	-	6	21	16	13	11	21	10	-	-	-	-	-
Private industry .....	60	40.0	1,357	-	-	-	-	-	-	-	-	-	2	-	5	22	15	13	12	22	10	-	-	-	-	-

<sup>1</sup> Standard hours reflect the workweek for which employees receive their regular straight-time salaries (exclusive of pay for overtime at regular and/or premium rates), and the earnings correspond to these weekly hours.

<sup>2</sup> Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. Also excluded are performance bonuses and lump-sum payments of the type negotiated in the auto and aerospace industries, as well as profit-sharing payments, attendance bonuses, Christmas or year-end bonuses, and other nonproduction bonuses. Pay increases, but not bonuses, under cost-of-living clauses, and incentive payments, however, are included. See Appendix A for definitions and methods used to compute means, medians, and middle ranges.

<sup>3</sup> Less than 0.5 percent.

<sup>4</sup> Workers were distributed as follows: 6 percent at \$2,600 and under \$2,800; 3 percent at \$3,000 and under \$3,200; and 3 percent at \$3,600 and under \$3,800.

NOTE: Because of rounding, sums of individual intervals may not equal 100 percent. Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupation or occupational levels may include data for categories not shown separately.

Table A-2. All establishments: Weekly hours and pay of technical and protective service occupations, St. Louis, MO-IL, March 1995

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>			Percent of workers receiving straight-time weekly pay (in dollars) of—																						
			Mean	Median	Middle range	175 and under 200	200 - 225	225 - 250	250 - 275	275 - 300	300 - 350	350 - 400	400 - 450	450 - 500	500 - 550	550 - 600	600 - 650	650 - 700	700 - 800	800 - 900	900 - 1000	1000 - 1100	1100 - 1200	1200 - 1300	1300 - 1400	1400 - 1500		
<b>TECHNICAL OCCUPATIONS</b>																												
<b>Computer Operators</b>																												
Level I .....	114	39.9	\$332	\$319	\$306 - \$357	-	-	-	3	19	52	17	9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	106	39.9	325	318	304 - 340	-	-	-	3	21	56	16	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Service-producing industries .....	90	39.8	318	318	280 - 330	-	-	-	3	24	56	14	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Level II .....	470	40.0	419	408	362 - 456	-	-	-	-	1	20	22	31	11	13	1	2	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	
Private industry .....	443	40.0	417	405	362 - 454	-	-	-	-	1	20	22	30	11	13	1	1	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	
Goods-producing industries .....	73	39.9	447	-	-	-	-	-	-	-	5	21	34	21	14	-	5	-	-	-	-	-	-	-	-	-	-	
Manufacturing .....	61	39.9	441	-	-	-	-	-	-	-	7	23	36	18	10	-	7	-	-	-	-	-	-	-	-	-	-	
Service-producing industries .....	370	40.0	411	403	357 - 443	-	-	-	-	1	23	23	29	9	13	1	1	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	
State and local government .....	27	39.7	455	-	-	-	-	-	-	-	7	11	41	22	7	4	7	-	-	-	-	-	-	-	-	-	-	
Level III .....	475	40.0	553	557	486 - 577	-	-	-	-	( <sup>3</sup> )	2	8	19	12	39	6	5	8	-	( <sup>3</sup> )	-	-	-	-	-	-	-	
Private industry .....	449	40.0	556	557	489 - 581	-	-	-	-	( <sup>3</sup> )	2	8	18	11	40	6	6	8	-	( <sup>3</sup> )	-	-	-	-	-	-	-	
Goods-producing industries .....	135	40.0	542	529	486 - 597	-	-	-	-	1	1	8	26	17	30	8	7	1	-	1	-	-	-	-	-	-		
Manufacturing .....	126	40.0	542	528	486 - 597	-	-	-	-	1	2	9	28	15	28	9	7	1	-	2	-	-	-	-	-	-		
Service-producing industries .....	314	40.0	562	557	509 - 572	-	-	-	-	-	3	7	15	9	44	5	5	11	-	-	-	-	-	-	-	-		
Transportation and utilities .....	204	40.0	594	557	557 - 645	-	-	-	-	-	-	( <sup>3</sup> )	4	5	63	5	4	18	-	-	-	-	-	-	-	-		
State and local government .....	26	39.9	506	-	-	-	-	-	-	-	-	-	12	38	31	15	-	-	-	-	-	-	-	-	-	-		
<b>Drafters</b>																												
Level I .....	104	40.0	451	501	364 - 526	-	-	-	-	7	34	6	4	50	-	-	-	-	-	-	-	-	-	-	-	-		
Private industry .....	97	40.0	452	526	364 - 526	-	-	-	-	7	35	2	2	54	-	-	-	-	-	-	-	-	-	-	-	-		
Service-producing industries .....	90	40.0	455	526	364 - 526	-	-	-	-	8	32	2	2	56	-	-	-	-	-	-	-	-	-	-	-	-		
Level II .....	284	40.0	523	510	480 - 575	-	-	-	-	-	4	13	27	20	19	7	9	-	-	-	-	-	-	-	-	-		
Private industry .....	274	40.0	526	511	482 - 575	-	-	-	-	-	3	12	27	21	19	8	9	-	-	-	-	-	-	-	-	-		
Goods-producing industries .....	153	40.0	513	500	485 - 575	-	-	-	-	-	1	13	34	20	29	3	1	-	-	-	-	-	-	-	-	-		
Manufacturing .....	137	40.0	511	494	485 - 575	-	-	-	-	-	1	15	35	20	26	3	1	-	-	-	-	-	-	-	-	-		
Service-producing industries .....	121	40.0	542	533	465 - 649	-	-	-	-	-	7	11	19	21	7	14	21	-	-	-	-	-	-	-	-	-		
Level III .....	198	39.9	613	618	578 - 665	-	-	-	-	-	1	1	6	8	25	26	21	13	-	-	-	-	-	-	-	-		
Private industry .....	185	40.0	616	618	582 - 665	-	-	-	-	-	1	1	5	7	24	26	22	14	-	-	-	-	-	-	-	-		
Goods-producing industries .....	133	39.9	616	622	582 - 665	-	-	-	-	-	2	2	6	5	23	25	28	10	-	-	-	-	-	-	-	-		
Manufacturing .....	100	39.9	602	620	582 - 652	-	-	-	-	-	2	2	7	4	29	31	22	3	-	-	-	-	-	-	-	-		
Service-producing industries .....	52	40.0	615	-	-	-	-	-	-	-	-	-	4	12	25	29	8	23	-	-	-	-	-	-	-	-		
State and local government .....	13	39.6	576	-	-	-	-	-	-	-	-	-	8	15	38	31	-	8	-	-	-	-	-	-	-	-		
Level IV .....	169	39.9	691	692	636 - 759	-	-	-	-	-	-	2	5	3	1	23	19	42	5	1	-	-	-	-	-	-		
Private industry .....	169	39.9	691	692	636 - 759	-	-	-	-	-	-	2	5	3	1	23	19	42	5	1	-	-	-	-	-	-		
Goods-producing industries .....	150	39.9	682	684	636 - 759	-	-	-	-	-	-	3	5	3	1	26	18	38	5	1	-	-	-	-	-	-		
Manufacturing .....	147	39.9	680	684	636 - 759	-	-	-	-	-	-	3	5	3	1	27	18	39	3	1	-	-	-	-	-	-		

See footnotes at end of table.

Table A-2. All establishments: Weekly hours and pay of technical and protective service occupations, St. Louis, MO-IL, March 1995 — Continued

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>			Percent of workers receiving straight-time weekly pay (in dollars) of—																				
			Mean	Median	Middle range	175 and under 200	200 - 225	225 - 250	250 - 275	275 - 300	300 - 350	350 - 400	400 - 450	450 - 500	500 - 550	550 - 600	600 - 650	650 - 700	700 - 800	800 - 900	900 - 1000	1000 - 1100	1100 - 1200	1200 - 1300	1300 - 1400	1400 - 1500
<b>Engineering Technicians</b>																										
Level II .....	136	40.0	\$465	\$462	\$446 - \$492	-	-	-	-	-	4	5	18	54	12	6	1	-	-	-	-	-	-	-	-	-
Private industry .....	136	40.0	465	462	446 - 492	-	-	-	-	-	4	5	18	54	12	6	1	-	-	-	-	-	-	-	-	-
Goods-producing industries .....	136	40.0	465	462	446 - 492	-	-	-	-	-	4	5	18	54	12	6	1	-	-	-	-	-	-	-	-	-
Manufacturing .....	136	40.0	465	462	446 - 492	-	-	-	-	-	4	5	18	54	12	6	1	-	-	-	-	-	-	-	-	-
Level III .....	334	40.0	553	540	487 - 605	-	-	-	-	-	1	11	18	23	19	15	6	5	1	( <sup>3</sup> )	-	-	-	-	-	-
Private industry .....	334	40.0	553	540	487 - 605	-	-	-	-	-	1	11	18	23	19	15	6	5	1	( <sup>3</sup> )	-	-	-	-	-	-
Goods-producing industries .....	289	40.0	540	538	479 - 596	-	-	-	-	-	1	13	21	23	19	13	5	4	1	-	-	-	-	-	-	-
Manufacturing .....	289	40.0	540	538	479 - 596	-	-	-	-	-	1	13	21	23	19	13	5	4	1	-	-	-	-	-	-	-
Level IV .....	403	40.0	726	718	634 - 791	-	-	-	-	-	-	-	6	3	5	18	12	34	10	8	4	( <sup>3</sup> )	-	-	-	-
Private industry .....	401	40.0	726	719	634 - 791	-	-	-	-	-	-	-	6	3	5	18	12	34	10	8	4	( <sup>3</sup> )	-	-	-	-
Level V .....	211	40.0	931	890	814 - 1,046	-	-	-	-	-	-	-	-	-	1	1	1	18	31	16	16	8	4	3	1	1
Private industry .....	211	40.0	931	890	814 - 1,046	-	-	-	-	-	-	-	-	-	1	1	1	18	31	16	16	8	4	3	1	1
Goods-producing industries .....	179	40.0	936	887	814 - 1,044	-	-	-	-	-	-	-	-	-	1	-	1	18	32	16	13	9	5	3	1	1
Manufacturing .....	179	40.0	936	887	814 - 1,044	-	-	-	-	-	-	-	-	-	1	-	1	18	32	16	13	9	5	3	1	1
<b>Engineering Technicians, Civil</b>																										
Level I:																										
State and local government .....	34	38.0	341	-	- - -	-	-	-	9	9	41	32	9	-	-	-	-	-	-	-	-	-	-	-	-	-
Level II .....	89	39.5	435	442	398 - 470	-	-	-	-	1	26	29	42	2	-	-	-	-	-	-	-	-	-	-	-	-
State and local government .....	81	39.4	432	439	398 - 464	-	-	-	-	-	28	30	42	-	-	-	-	-	-	-	-	-	-	-	-	-
Level III .....	254	39.0	557	551	500 - 608	-	-	-	-	-	-	5	19	25	23	17	7	4	-	-	-	-	-	-	-	-
State and local government .....	238	38.9	557	551	498 - 608	-	-	-	-	-	-	5	20	24	22	17	7	5	-	-	-	-	-	-	-	-
Level IV .....	165	38.8	704	713	608 - 775	-	-	-	-	-	-	-	1	5	13	16	11	33	16	2	2	-	-	-	-	-
State and local government .....	139	38.6	709	713	608 - 778	-	-	-	-	-	-	-	1	4	14	16	7	37	17	3	1	-	-	-	-	-
<b>Licensed Practical Nurses</b>																										
Level II .....	3,093	40.0	471	480	420 - 514	-	-	-	-	2	11	22	34	27	4	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-
Private industry .....	2,797	40.0	475	480	433 - 520	-	-	-	-	2	8	21	36	28	5	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-
Service-producing industries .....	2,797	40.0	475	480	433 - 520	-	-	-	-	2	8	21	36	28	5	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-
State and local government .....	296	40.0	429	414	388 - 466	-	-	-	-	1	40	29	13	17	-	-	-	-	-	-	-	-	-	-	-	-
<b>Nursing Assistants</b>																										
Level I .....	182	40.0	282	272	232 - 336	-	9	29	13	9	37	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Level II .....	7,512	40.0	271	250	230 - 299	1	20	28	18	8	13	6	3	2	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-
Private industry .....	6,684	40.0	261	246	229 - 287	1	22	29	19	9	14	5	1	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-
Service-producing industries .....	6,684	40.0	261	246	229 - 287	1	22	29	19	9	14	5	1	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-
State and local government .....	828	40.0	347	353	242 - 429	-	7	23	8	3	7	14	16	21	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-
Level III .....	843	39.3	318	296	280 - 338	-	1	3	12	38	24	11	6	2	4	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	793	39.3	309	294	280 - 334	-	1	3	12	41	25	11	5	2	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-
Service-producing industries .....	793	39.3	309	294	280 - 334	-	1	3	12	41	25	11	5	2	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

**Table A-2. All establishments: Weekly hours and pay of technical and protective service occupations, St. Louis, MO-IL, March 1995 — Continued**

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>			Percent of workers receiving straight-time weekly pay (in dollars) of—																						
			Mean	Median	Middle range	175 and under 200	200 - 225	225 - 250	250 - 275	275 - 300	300 - 350	350 - 400	400 - 450	450 - 500	500 - 550	550 - 600	600 - 650	650 - 700	700 - 800	800 - 900	900 - 1000	1000 - 1100	1100 - 1200	1200 - 1300	1300 - 1400	1400 - 1500		
<b>PROTECTIVE SERVICE OCCUPATIONS</b>																												
<b>Corrections Officers</b> .....	990	40.0	\$475	\$453	\$388 - \$593	-	-	-	-	-	1	33	14	14	7	27	3	1	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-
State and local government .....	990	40.0	475	453	388 - 593	-	-	-	-	-	1	33	14	14	7	27	3	1	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-
<b>Firefighters</b> .....	1,140	52.2	623	623	556 - 686	-	-	-	-	-	( <sup>3</sup> )	3	3	11	26	19	17	21	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	
State and local government .....	1,089	52.5	626	623	564 - 693	-	-	-	-	-	-	3	1	11	27	17	17	22	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	
<b>Police Officers</b>																												
Level I .....	2,582	40.0	630	633	564 - 700	-	-	-	-	-	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	3	19	12	22	18	25	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	
State and local government .....	2,571	40.0	631	633	564 - 701	-	-	-	-	-	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	3	19	12	22	18	25	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	

<sup>1</sup> Standard hours reflect the workweek for which employees receive their regular straight-time salaries (exclusive of pay for overtime at regular and/or premium rates), and the earnings correspond to these weekly hours.  
<sup>2</sup> Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. Also excluded are performance bonuses and lump-sum payments of the type negotiated in the auto and aerospace industries, as well as profit-sharing payments, attendance bonuses, Christmas or year-end bonuses, and other nonproduction bonuses. Pay increases, but not bonuses, under cost-of-living clauses, and incentive payments, however, are included. See Appendix A for definitions and methods used to

compute means, medians, and middle ranges.  
<sup>3</sup> Less than 0.5 percent.

NOTE: Because of rounding, sums of individual intervals may not equal 100 percent. Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupation or occupational levels may include data for categories not shown separately.

Table A-3. All establishments: Weekly hours and pay of clerical occupations, St. Louis, MO-IL, March 1995

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>			Percent of workers receiving straight-time weekly pay (in dollars) of—																				
			Mean	Median	Middle range	Under 200	200 - 225	225 - 250	250 - 275	275 - 300	300 - 325	325 - 350	350 - 400	400 - 450	450 - 500	500 - 550	550 - 600	600 - 650	650 - 700	700 - 750	750 - 800	800 - 850	850 - 900	900 - 950	950 - 1000	1000 and over
<b>Clerks, Accounting</b>																										
Level I .....	335	40.0	\$333	\$288	\$270 - \$342	-	-	19	7	37	12	1	2	1	-	21	-	-	-	-	-	-	-	-	-	-
Private industry .....	335	40.0	333	288	270 - 342	-	-	19	7	37	12	1	2	1	-	21	-	-	-	-	-	-	-	-	-	-
Service-producing industries .....	333	40.0	332	288	270 - 336	-	-	19	7	37	12	1	2	2	-	21	-	-	-	-	-	-	-	-	-	-
Level II .....	3,508	39.9	364	342	308 - 404	-	3	( <sup>3</sup> )	3	10	24	12	20	8	6	11	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-
Private industry .....	3,368	40.0	364	342	308 - 404	-	3	1	3	10	24	13	20	8	6	12	( <sup>3</sup> )	1	-	-	-	-	-	-	-	-
Goods-producing industries .....	857	40.0	370	360	321 - 410	-	( <sup>3</sup> )	2	2	3	20	17	24	16	14	1	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-
Manufacturing .....	712	40.0	370	363	320 - 420	-	1	2	2	4	23	12	23	16	15	2	1	1	-	-	-	-	-	-	-	-
Service-producing industries .....	2,511	39.9	363	332	300 - 397	-	4	( <sup>3</sup> )	4	13	26	11	18	5	4	15	( <sup>3</sup> )	1	-	-	-	-	-	-	-	-
State and local government .....	140	39.7	361	352	303 - 413	-	-	-	3	20	19	8	24	11	11	5	-	-	-	-	-	-	-	-	-	-
Level III .....	1,575	39.9	440	422	366 - 486	-	-	-	( <sup>3</sup> )	1	2	9	27	22	18	8	4	6	3	-	-	-	-	-	-	-
Private industry .....	1,278	40.0	443	422	366 - 488	-	-	-	( <sup>3</sup> )	1	2	9	28	21	16	8	5	7	4	-	-	-	-	-	-	-
Goods-producing industries .....	464	40.0	445	443	368 - 500	-	-	-	1	1	1	4	26	20	23	14	8	2	1	-	-	-	-	-	-	-
Manufacturing .....	421	40.0	446	456	367 - 500	-	-	-	1	1	1	4	27	16	23	16	8	3	1	-	-	-	-	-	-	-
Service-producing industries .....	814	40.0	442	415	364 - 482	-	-	-	( <sup>3</sup> )	1	3	12	29	22	12	4	4	9	5	-	-	-	-	-	-	-
Transportation and utilities .....	154	40.0	620	631	631 - 675	-	-	-	-	-	-	-	1	3	3	5	12	49	27	-	-	-	-	-	-	-
State and local government .....	297	39.6	427	429	366 - 481	-	-	-	-	-	1	12	22	27	25	11	1	( <sup>3</sup> )	-	-	-	-	-	-	-	-
Level IV .....	516	40.0	520	525	468 - 591	-	-	-	-	1	( <sup>3</sup> )	1	9	9	19	23	9	3	-	( <sup>3</sup> )	-	-	-	-	-	-
Private industry .....	461	40.0	523	530	468 - 591	-	-	-	-	1	( <sup>3</sup> )	1	8	9	17	23	28	9	3	-	( <sup>3</sup> )	-	-	-	-	-
Goods-producing industries .....	181	40.0	542	529	498 - 581	-	-	-	-	-	-	1	3	1	24	25	27	12	6	-	-	-	-	-	-	-
Manufacturing .....	178	40.0	541	526	498 - 581	-	-	-	-	-	-	1	3	1	25	25	27	12	5	-	1	-	-	-	-	-
Service-producing industries .....	280	40.0	511	538	435 - 591	-	-	-	-	1	( <sup>3</sup> )	1	12	14	12	22	29	7	2	-	-	-	-	-	-	-
State and local government .....	55	39.9	494	488	470 - 538	-	-	-	-	-	-	-	11	4	36	27	18	4	-	-	-	-	-	-	-	-
<b>Clerks, General</b>																										
Level I .....	446	40.0	244	229	210 - 272	2	48	12	15	13	4	2	3	1	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	428	40.0	241	222	210 - 268	2	50	13	14	13	3	2	3	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-
Service-producing industries .....	328	40.0	241	234	212 - 263	2	47	17	19	6	4	3	2	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-
Level II .....	1,777	39.6	315	305	273 - 355	-	( <sup>3</sup> )	8	19	19	15	12	19	6	1	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-
Private industry .....	1,129	39.7	306	294	269 - 335	-	-	8	23	22	14	13	15	5	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-
Goods-producing industries .....	184	40.0	334	328	280 - 360	-	-	-	3	35	9	14	27	11	1	2	-	-	-	-	-	-	-	-	-	-
Manufacturing .....	145	40.0	345	345	298 - 376	-	-	-	3	22	9	17	32	14	1	2	-	-	-	-	-	-	-	-	-	-
Service-producing industries .....	945	39.6	301	290	262 - 325	-	-	9	27	19	15	13	13	3	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-
Transportation and utilities .....	47	40.0	389	363	355 - 443	-	-	-	2	9	-	49	38	2	-	-	-	-	-	-	-	-	-	-	-	-
State and local government .....	648	39.6	331	319	279 - 382	-	( <sup>3</sup> )	9	12	14	16	10	27	9	3	-	-	-	-	-	-	-	-	-	-	-
Level III .....	2,256	39.8	382	366	316 - 436	-	-	1	2	13	13	14	22	14	12	6	3	( <sup>3</sup> )	-	-	-	-	-	-	-	-
Private industry .....	1,055	39.8	400	382	327 - 463	-	-	1	2	8	12	11	24	13	9	11	7	( <sup>3</sup> )	-	-	1	-	-	-	-	-
Goods-producing industries .....	307	40.0	425	409	368 - 459	-	-	-	-	-	9	4	31	26	17	8	( <sup>3</sup> )	-	-	-	5	-	-	-	-	-
Manufacturing .....	302	40.0	426	411	368 - 460	-	-	-	-	-	10	4	31	25	18	8	( <sup>3</sup> )	-	-	-	5	-	-	-	-	-
Service-producing industries .....	748	39.7	390	360	318 - 463	-	-	2	3	12	13	15	20	8	6	12	9	( <sup>3</sup> )	-	-	-	-	-	-	-	-
Transportation and utilities .....	207	40.0	500	526	463 - 570	-	-	2	2	4	1	1	1	1	21	31	34	( <sup>3</sup> )	-	-	-	-	-	-	-	-
State and local government .....	1,201	39.8	366	353	310 - 414	-	-	( <sup>3</sup> )	2	16	14	16	21	15	14	1	-	-	-	-	-	-	-	-	-	-
Level IV .....	719	39.9	459	456	383 - 539	-	-	-	-	( <sup>3</sup> )	2	10	19	18	13	29	2	7	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-
Private industry .....	435	40.0	494	527	420 - 539	-	-	-	-	-	( <sup>3</sup> )	3	12	17	9	43	3	11	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-
Service-producing industries .....	291	39.9	494	539	410 - 539	-	-	-	-	-	1	4	14	16	4	45	1	16	-	-	-	-	-	-	-	-
State and local government .....	284	39.7	406	395	353 - 459	-	-	-	-	( <sup>3</sup> )	3	20	31	19	19	7	2	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



**Table A-3. All establishments: Weekly hours and pay of clerical occupations, St. Louis, MO-IL, March 1995 — Continued**

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>			Percent of workers receiving straight-time weekly pay (in dollars) of—																				
			Mean	Median	Middle range	Under 200	200 - 225	225 - 250	250 - 275	275 - 300	300 - 325	325 - 350	350 - 400	400 - 450	450 - 500	500 - 550	550 - 600	600 - 650	650 - 700	700 - 750	750 - 800	800 - 850	850 - 900	900 - 950	950 - 1000	1000 and over
Level III	2,343	39.9	\$515	\$508	\$462 - \$565	-	-	-	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	1	6	12	25	25	17	8	4	2	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-
Private industry	2,105	39.9	515	507	462 - 566	-	-	-	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	1	6	12	25	25	16	7	4	2	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-
Goods-producing industries	1,016	40.0	538	535	488 - 588	-	-	-	( <sup>3</sup> )	-	( <sup>3</sup> )	1	2	7	21	29	22	10	6	2	( <sup>3</sup> )	-	-	-	-	-
Manufacturing	1,011	40.0	538	535	488 - 587	-	-	-	( <sup>3</sup> )	-	( <sup>3</sup> )	1	2	7	21	28	22	10	6	2	( <sup>3</sup> )	-	-	-	-	-
Service-producing industries	1,089	39.9	493	484	443 - 535	-	-	-	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	2	9	17	30	22	10	4	3	2	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-
Transportation and utilities	99	40.0	546	492	411 - 686	-	-	-	5	-	-	1	16	13	15	2	6	6	17	14	2	-	2	-	-	-
State and local government	238	40.0	522	534	471 - 559	-	-	-	-	-	-	-	8	10	19	19	29	11	4	( <sup>3</sup> )	-	-	-	-	-	-
Level IV	716	39.9	593	600	538 - 660	-	-	-	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	3	5	7	15	20	22	19	6	2	1	( <sup>3</sup> )	-	( <sup>3</sup> )	( <sup>3</sup> )	
Private industry	650	39.9	595	601	540 - 661	-	-	-	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	2	5	6	15	20	21	20	6	3	1	( <sup>3</sup> )	-	( <sup>3</sup> )	( <sup>3</sup> )	
Goods-producing industries	357	39.9	605	609	548 - 667	-	-	-	-	-	-	1	6	4	15	19	20	23	6	3	1	-	-	-	-	
Manufacturing	352	39.9	605	609	546 - 667	-	-	-	-	-	-	1	6	4	16	19	21	23	6	3	1	-	-	-	-	
Service-producing industries	293	40.0	583	590	522 - 648	-	-	-	( <sup>3</sup> )	1	( <sup>3</sup> )	3	5	10	14	21	22	16	5	2	( <sup>3</sup> )	1	-	( <sup>3</sup> )	( <sup>3</sup> )	
Transportation and utilities	53	40.0	562	558	410 - 665	-	-	-	2	6	-	9	21	8	4	4	15	13	9	-	2	4	-	2	2	
State and local government	66	39.7	574	585	512 - 638	-	-	-	-	-	-	9	3	9	14	21	29	6	8	-	2	-	-	-	-	
Level V	177	39.9	733	723	641 - 832	-	-	-	-	-	-	2	-	2	3	5	15	14	18	12	13	9	5	1	2	
Private industry	177	39.9	733	723	641 - 832	-	-	-	-	-	-	2	-	2	3	5	15	14	18	12	13	9	5	1	2	
Goods-producing industries	91	39.9	727	725	641 - 822	-	-	-	-	-	-	-	-	2	4	3	21	8	18	15	15	11	1	-	1	
Manufacturing	91	39.9	727	725	641 - 822	-	-	-	-	-	-	-	-	2	4	3	21	8	18	15	15	11	1	-	1	
Service-producing industries	86	39.9	740	720	669 - 833	-	-	-	-	-	-	3	-	1	1	6	9	20	19	9	10	7	8	2	3	
Switchboard Operator-Receptionists	1,211	39.7	341	327	280 - 400	-	1	9	9	9	18	15	12	15	8	1	1	-	-	-	-	-	-	-	-	
Private industry	1,159	39.7	340	326	280 - 400	-	1	10	10	9	19	14	11	16	8	1	1	-	-	-	-	-	-	-	-	
Goods-producing industries	394	40.0	350	355	290 - 404	-	4	7	8	8	13	10	19	21	10	1	-	-	-	-	-	-	-	-	-	
Manufacturing	332	40.0	353	360	292 - 404	-	-	8	9	9	12	10	20	19	11	1	-	-	-	-	-	-	-	-	-	
Service-producing industries	765	39.5	335	323	280 - 364	-	-	12	11	10	21	16	7	13	7	1	2	-	-	-	-	-	-	-	-	
Transportation and utilities	32	40.0	343	-	-	-	-	-	6	34	13	13	9	22	-	3	-	-	-	-	-	-	-	-	-	
State and local government	52	39.8	370	374	333 - 389	-	-	-	8	2	4	31	40	6	4	6	-	-	-	-	-	-	-	-	-	
Word Processors																										
Level I	94	40.0	361	347	323 - 387	-	-	-	2	6	17	27	28	12	9	-	-	-	-	-	-	-	-	-	-	
Private industry	79	40.0	347	-	-	-	-	-	1	8	19	32	30	10	-	-	-	-	-	-	-	-	-	-	-	
Service-producing industries	78	40.0	346	-	-	-	-	-	1	8	19	32	31	9	-	-	-	-	-	-	-	-	-	-	-	
Level II:																										
State and local government	52	40.0	434	436	436 - 436	-	-	-	2	-	-	-	94	4	-	-	-	-	-	-	-	-	-	-	-	
Level III	93	40.0	543	569	508 - 593	-	-	-	-	-	-	3	5	13	23	40	16	-	-	-	-	-	-	-	-	
Private industry	89	40.0	549	569	510 - 593	-	-	-	-	-	-	1	4	13	22	42	17	-	-	-	-	-	-	-	-	

<sup>1</sup> Standard hours reflect the workweek for which employees receive their regular straight-time salaries (exclusive of pay for overtime at regular and/or premium rates), and the earnings correspond to these weekly hours.

<sup>2</sup> Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. Also excluded are performance bonuses and lump-sum payments of the type negotiated in the auto and aerospace industries, as well as profit-sharing payments, attendance bonuses, Christmas or year-end bonuses, and other nonproduction bonuses. Pay increases, but not bonuses, under cost-of-living clauses, and incentive payments, however, are included. See Appendix A for definitions and methods used to

compute means, medians, and middle ranges.

<sup>3</sup> Less than 0.5 percent.

NOTE: Because of rounding, sums of individual intervals may not equal 100 percent. Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupation or occupational levels may include data for categories not shown separately.

**Table A-4. All establishments: Hourly pay of maintenance and toolroom occupations, St. Louis, MO-IL, March 1995**

Occupation and level	Number of workers	Hourly pay (in dollars) <sup>1</sup>			Percent of workers receiving straight-time hourly pay (in dollars) of—																							
		Mean	Median	Middle range	Under 6.00	6.00-6.50	6.50-7.00	7.00-7.50	7.50-8.00	8.00-8.50	8.50-9.00	9.00-9.50	9.50-10.00	10.00-10.50	10.50-11.00	11.00-11.50	11.50-12.00	12.00-13.00	13.00-14.00	14.00-15.00	15.00-16.00	16.00-17.00	17.00-18.00	18.00-20.00	20.00-22.00	22.00-24.00	24.00-26.00	
<b>General Maintenance Workers</b> .....	1,659	\$10.36	\$10.00	\$8.83 - \$11.79	1	1	3	5	7	4	5	6	16	11	7	6	5	10	7	3	1	1	1	( <sup>2</sup> )	-	-	-	
Private industry .....	1,279	10.17	9.86	8.54 - 11.57	1	( <sup>2</sup> )	3	7	9	4	4	6	18	11	6	6	3	10	8	2	1	( <sup>2</sup> )	1	( <sup>2</sup> )	-	-	-	
Goods-producing industries .....	145	11.00	10.95	9.10 - 11.20	-	-	-	-	-	5	8	32	-	-	26	11	1	1	1	2	1	-	10	1	-	-		
Manufacturing .....	142	10.95	10.95	9.10 - 11.20	-	-	-	-	-	5	8	32	-	-	27	11	1	1	1	1	1	-	11	1	-	-		
Service-producing industries .....	1,134	10.07	9.86	8.25 - 11.80	1	( <sup>2</sup> )	4	8	10	4	4	3	20	12	4	5	3	11	9	2	1	( <sup>2</sup> )	-	-	-	-		
State and local government .....	380	10.97	10.70	9.45 - 12.24	-	2	3	( <sup>2</sup> )	3	4	7	9	10	11	7	11	8	4	7	2	2	6	-	-	-	-		
<b>Maintenance Electricians</b> .....	1,549	19.26	20.97	16.72 - 21.42	-	-	-	-	-	-	-	( <sup>2</sup> )	-	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1	2	2	3	13	5	1	17	55	( <sup>2</sup> )	( <sup>2</sup> )	
Private industry .....	1,414	19.59	20.97	18.64 - 21.55	-	-	-	-	-	-	-	( <sup>2</sup> )	-	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	-	2	2	3	11	4	1	19	59	( <sup>2</sup> )	( <sup>2</sup> )	
Goods-producing industries .....	1,317	19.83	21.04	19.20 - 21.55	-	-	-	-	-	-	-	-	-	-	-	-	2	1	1	11	2	1	19	63	-	-		
Manufacturing .....	1,315	19.84	21.04	19.20 - 21.55	-	-	-	-	-	-	-	-	-	-	-	-	2	1	1	11	2	1	19	63	-	-		
Service-producing industries .....	97	16.26	15.39	14.94 - 16.64	-	-	-	-	-	-	-	-	-	1	-	1	2	9	29	13	20	1	13	8	1	1		
State and local government .....	135	15.87	15.78	14.62 - 16.33	-	-	-	-	-	-	1	-	1	2	1	5	7	7	4	30	24	6	-	10	2	-		
<b>Maintenance Electronics Technicians</b>																												
Level II .....	842	17.14	18.99	14.24 - 19.11	-	-	-	-	-	-	2	-	1	2	2	3	6	7	3	4	5	6	37	21	1	-		
Private industry .....	781	17.23	18.99	14.66 - 19.11	-	-	-	-	-	-	3	-	1	3	2	3	5	7	2	3	5	3	40	22	1	-		
Goods-producing industries .....	65	17.96	-	-	-	-	-	-	-	-	-	-	3	-	-	3	8	5	2	9	-	62	-	9	-	-		
Manufacturing .....	65	17.96	-	-	-	-	-	-	-	-	-	-	3	-	-	3	8	5	2	9	-	62	-	9	-	-		
Service-producing industries .....	716	17.16	18.99	14.24 - 19.11	-	-	-	-	-	-	3	-	( <sup>2</sup> )	3	3	3	5	7	2	3	5	3	38	24	-	-		
Transportation and utilities .....	557	17.94	18.99	18.99 - 20.01	-	-	-	-	-	-	4	-	( <sup>2</sup> )	4	-	3	1	6	-	1	1	1	48	31	-	-		
State and local government .....	61	16.03	17.16	12.90 - 17.96	-	-	-	-	-	-	-	-	3	2	-	5	16	3	7	10	3	39	2	10	-	-		
Level III .....	173	19.13	18.60	18.40 - 20.32	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	3	8	46	36	1	1			
Private industry .....	169	19.06	18.60	18.40 - 20.32	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	3	8	47	37	-	-			
Goods-producing industries .....	90	19.55	20.32	18.49 - 20.32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	41	54	-	-			
Manufacturing .....	90	19.55	20.32	18.49 - 20.32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	41	54	-	-			
Service-producing industries .....	79	18.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	4	16	53	16	-	-			
<b>Maintenance Machinists</b> .....	771	18.96	19.97	17.18 - 20.75	-	-	-	-	-	-	-	-	-	( <sup>2</sup> )	1	-	-	( <sup>2</sup> )	8	1	4	19	22	44	-	( <sup>2</sup> )		
Private industry .....	759	18.99	19.97	17.18 - 20.75	-	-	-	-	-	-	-	-	-	-	1	-	-	( <sup>2</sup> )	8	1	4	20	23	45	-	-		
Goods-producing industries .....	752	19.00	19.97	17.18 - 20.75	-	-	-	-	-	-	-	-	-	-	1	-	-	-	8	1	4	20	23	45	-	-		
Manufacturing .....	751	19.01	19.97	17.18 - 20.75	-	-	-	-	-	-	-	-	-	-	1	-	-	-	7	1	4	20	23	45	-	-		
<b>Maintenance Mechanics, Machinery</b> .....	1,551	15.21	15.05	13.55 - 16.24	-	-	-	-	-	-	-	-	-	( <sup>2</sup> )	1	3	1	6	17	12	33	7	6	5	9	-		
Private industry .....	1,410	15.27	15.05	13.55 - 16.24	-	-	-	-	-	-	-	-	-	( <sup>2</sup> )	1	3	1	5	18	11	34	5	7	5	9	-		
Goods-producing industries .....	1,374	15.22	15.05	13.55 - 15.90	-	-	-	-	-	-	-	-	-	( <sup>2</sup> )	1	3	1	5	18	12	34	4	7	4	10	-		
Manufacturing .....	1,373	15.22	15.05	13.55 - 15.90	-	-	-	-	-	-	-	-	-	( <sup>2</sup> )	1	3	1	5	18	12	35	4	7	4	10	-		
State and local government .....	141	14.53	15.00	13.12 - 16.39	-	-	-	-	-	-	-	-	-	-	5	2	16	8	16	26	28	-	-	-	-	-		
<b>Maintenance Mechanics, Motor Vehicle</b> ...	990	15.17	14.93	12.50 - 18.06	-	-	-	-	1	1	( <sup>2</sup> )	3	( <sup>2</sup> )	2	3	3	4	9	6	20	8	6	7	19	6	-		
Private industry .....	656	15.42	16.86	12.00 - 18.70	-	-	-	-	2	2	( <sup>2</sup> )	5	-	2	5	4	5	13	3	2	5	4	10	29	9	-		
Goods-producing industries .....	166	18.27	18.34	17.18 - 21.28	-	-	-	-	-	1	-	-	-	-	1	-	11	3	2	1	-	15	31	34	-			
Manufacturing .....	162	18.37	19.69	17.32 - 21.28	-	-	-	-	-	1	-	-	-	-	1	-	12	3	-	1	-	15	32	35	-			
Service-producing industries .....	490	14.46	14.43	11.35 - 18.70	-	-	-	-	2	2	-	7	-	2	7	5	7	13	3	2	7	5	9	28	1	-		
State and local government .....	334	14.68	14.93	14.49 - 14.93	-	-	-	-	-	-	-	-	1	3	( <sup>2</sup> )	1	2	2	12	55	12	10	2	1	-	-		

See footnotes at end of table.

**Table A-4. All establishments: Hourly pay of maintenance and toolroom occupations, St. Louis, MO-IL, March 1995 — Continued**

Occupation and level	Number of workers	Hourly pay (in dollars) <sup>1</sup>			Percent of workers receiving straight-time hourly pay (in dollars) of—																						
		Mean	Median	Middle range	Under 6.00	6.00 - 6.50	6.50 - 7.00	7.00 - 7.50	7.50 - 8.00	8.00 - 8.50	8.50 - 9.00	9.00 - 9.50	9.50 - 10.00	10.00 - 10.50	10.50 - 11.00	11.00 - 11.50	11.50 - 12.00	12.00 - 13.00	13.00 - 14.00	14.00 - 15.00	15.00 - 16.00	16.00 - 17.00	17.00 - 18.00	18.00 - 20.00	20.00 - 22.00	22.00 - 24.00	24.00 - 26.00
<b>Maintenance Pipefitters</b> .....	653	\$19.31	\$19.94	\$18.49 - \$20.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	( <sup>2</sup> )	3	1	-	12	56	27	( <sup>2</sup> )	-
Private industry .....	640	19.26	19.94	18.49 - 20.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	( <sup>2</sup> )	3	1	-	13	57	26	-	-
Goods-producing industries .....	639	19.27	19.94	18.49 - 20.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	13	57	26	-	-
Manufacturing .....	639	19.27	19.94	18.49 - 20.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	13	57	26	-	-

<sup>1</sup> Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. Also excluded are performance bonuses and lump-sum payments of the type negotiated in the auto and aerospace industries, as well as profit-sharing payments, attendance bonuses, Christmas or year-end bonuses, and other nonproduction bonuses. Pay increases, but not bonuses, under cost-of-living clauses, and incentive payments, however, are included. See Appendix A for definitions and methods used to compute means, medians, and middle ranges.

<sup>2</sup> Less than 0.5 percent.

NOTE: Because of rounding, sums of individual intervals may not equal 100 percent. Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupation or occupational levels may include data for categories not shown separately.

Table A-5. All establishments: Hourly pay of material movement and custodial occupations, St. Louis, MO-IL, March 1995

Occupation and level	Number of workers	Hourly pay (in dollars) <sup>1</sup>			Percent of workers receiving straight-time hourly pay (in dollars) of—																							
		Mean	Median	Middle range	4.25 and under 4.50	4.50 - 5.00	5.00 - 5.50	5.50 - 6.00	6.00 - 6.50	6.50 - 7.00	7.00 - 7.50	7.50 - 8.00	8.00 - 8.50	8.50 - 9.00	9.00 - 10.00	10.00 - 11.00	11.00 - 12.00	12.00 - 13.00	13.00 - 14.00	14.00 - 15.00	15.00 - 16.00	16.00 - 17.00	17.00 - 18.00	18.00 - 19.00	19.00 - 20.00	20.00 - 21.00	21.00 and over	
<b>Forklift Operators</b> .....	1,911	\$13.89	\$13.59	\$10.20 - \$16.74	-	-	-	-	-	2	1	2	8	-	9	10	4	9	11	1	9	11	3	5	14	2	( <sup>2</sup> )	
Private industry .....	1,907	13.89	13.59	10.20 - 16.74	-	-	-	-	-	2	1	2	8	-	9	10	4	9	11	1	9	11	3	5	14	2	( <sup>2</sup> )	
Goods-producing industries .....	1,568	13.64	13.59	10.20 - 16.57	-	-	-	-	-	( <sup>2</sup> )	-	2	10	-	10	10	5	11	13	1	11	4	4	( <sup>2</sup> )	17	2	( <sup>2</sup> )	
Manufacturing .....	1,532	13.47	13.30	10.20 - 16.57	-	-	-	-	-	( <sup>2</sup> )	-	2	10	-	10	10	5	11	14	1	11	4	4	( <sup>2</sup> )	17	-	( <sup>2</sup> )	
Service-producing industries .....	339	15.04	16.74	10.25 - 18.44	-	-	-	-	-	6	3	-	-	-	6	12	-	-	( <sup>2</sup> )	-	-	44	-	28	-	-	-	
<b>Guards</b>																												
Level I .....	3,313	6.61	6.00	5.00 - 7.50	3	12	23	12	10	7	8	6	5	3	4	3	1	2	2	-	-	( <sup>2</sup> )	-	( <sup>2</sup> )	-	-	-	
Private industry .....	3,104	6.39	5.75	5.00 - 7.25	3	13	24	12	10	7	8	6	4	2	3	3	1	1	2	-	-	( <sup>2</sup> )	-	( <sup>2</sup> )	-	-	-	
Goods-producing industries .....	96	12.14	13.47	9.40 - 13.69	-	-	-	-	-	3	4	3	5	2	18	2	2	-	51	-	-	1	-	8	-	-	-	
Manufacturing .....	96	12.14	13.47	9.40 - 13.69	-	-	-	-	-	3	4	3	5	2	18	2	2	-	51	-	-	1	-	8	-	-	-	
Service-producing industries .....	3,008	6.21	5.75	5.00 - 7.14	4	14	25	13	11	7	8	6	4	2	2	3	1	1	( <sup>2</sup> )	-	-	-	-	-	-	-	-	
State and local government .....	209	9.87	9.33	8.61 - 11.33	-	-	-	( <sup>2</sup> )	2	-	( <sup>2</sup> )	1	11	25	20	14	4	18	3	-	-	-	-	-	-	-	-	
Level II .....	984	11.98	9.59	8.66 - 16.83	-	-	-	-	-	-	( <sup>2</sup> )	3	34	16	2	3	1	4	1	2	24	7	1	-	-	-	-	
Private industry .....	537	14.50	16.52	11.54 - 16.83	-	-	-	-	-	-	-	1	5	3	10	4	4	2	7	2	4	44	13	2	-	-	-	
Goods-producing industries .....	388	16.29	16.83	16.29 - 16.83	-	-	-	-	-	-	-	-	( <sup>2</sup> )	1	-	-	1	9	3	5	61	18	3	-	-	-	-	
Manufacturing .....	388	16.29	16.83	16.29 - 16.83	-	-	-	-	-	-	-	-	( <sup>2</sup> )	1	-	-	1	9	3	5	61	18	3	-	-	-	-	
Service-producing industries .....	149	9.83	9.91	8.69 - 10.75	-	-	-	-	-	-	-	2	19	9	36	14	15	4	1	-	-	-	-	-	-	-	-	
State and local government .....	447	8.96	8.66	8.66 - 9.11	-	-	-	-	-	-	-	( <sup>2</sup> )	-	72	24	1	1	1	( <sup>2</sup> )	1	-	-	-	-	-	-	-	
Janitors .....	12,102	6.84	5.87	5.00 - 8.00	5	17	18	12	7	8	5	4	5	3	6	4	4	1	1	1	( <sup>2</sup> )	1	( <sup>2</sup> )	( <sup>2</sup> )	-	-	-	
Private industry .....	9,416	6.22	5.50	4.85 - 6.58	6	22	22	15	7	9	4	2	4	1	1	1	2	1	( <sup>2</sup> )	1	1	1	1	( <sup>2</sup> )	-	-	-	
Goods-producing industries .....	790	11.73	11.22	8.58 - 14.59	-	-	1	3	1	1	3	1	15	4	10	10	12	6	4	7	2	15	5	2	-	-	-	
Manufacturing .....	788	11.73	11.22	8.58 - 14.59	-	-	1	3	1	( <sup>2</sup> )	3	1	15	4	10	10	12	6	4	7	2	15	5	2	-	-	-	
Service-producing industries .....	8,626	5.71	5.25	4.75 - 6.20	7	23	24	16	8	9	4	2	2	1	1	( <sup>2</sup> )	1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1	-	( <sup>2</sup> )	-	-	-	-	
Transportation and utilities .....	114	11.19	11.58	7.30 - 15.25	-	-	11	4	-	5	8	-	2	-	12	4	12	-	3	1	39	-	-	-	-	-	-	
State and local government .....	2,686	9.05	9.08	7.58 - 10.41	-	1	2	3	6	4	7	9	8	7	23	16	10	1	2	1	( <sup>2</sup> )	-	-	-	-	-	-	
Material Handling Laborers .....	1,178	14.70	16.64	11.60 - 18.51	-	-	-	-	2	3	1	2	( <sup>2</sup> )	5	3	5	10	8	7	2	-	17	3	7	23	-	2	
Private industry .....	1,124	14.89	16.64	11.60 - 19.41	-	-	-	-	2	3	-	( <sup>2</sup> )	( <sup>2</sup> )	6	3	5	10	9	7	( <sup>2</sup> )	-	18	3	7	24	-	2	
Goods-producing industries .....	698	15.28	18.19	11.60 - 19.41	-	-	-	-	-	-	-	-	-	9	5	7	16	12	-	( <sup>2</sup> )	-	-	-	10	39	-	3	
Manufacturing .....	698	15.28	18.19	11.60 - 19.41	-	-	-	-	-	-	-	-	-	9	5	7	16	12	-	( <sup>2</sup> )	-	-	-	10	39	-	3	
Service-producing industries .....	426	14.24	16.64	13.45 - 16.64	-	-	-	-	5	8	-	1	1	( <sup>2</sup> )	1	2	( <sup>2</sup> )	4	19	1	-	48	8	2	-	-	-	
State and local government .....	54	10.70	7.69	7.43 - 14.50	-	-	-	-	-	-	26	26	-	-	2	-	4	-	2	41	-	-	-	-	-	-	-	
Order Fillers:																												
Private industry:																												
Goods-producing industries .....	252	10.57	10.19	10.15 - 10.47	-	-	-	-	-	3	-	2	9	1	9	55	2	-	-	19	-	-	-	-	-	-	-	
Manufacturing .....	252	10.57	10.19	10.15 - 10.47	-	-	-	-	-	3	-	2	9	1	9	55	2	-	-	19	-	-	-	-	-	-	-	
Shipping/Receiving Clerks .....	1,707	10.31	9.45	7.83 - 12.00	-	-	2	( <sup>2</sup> )	2	3	10	8	14	6	13	7	9	7	5	1	2	2	3	4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	
Private industry .....	1,698	10.30	9.45	7.83 - 11.95	-	-	2	( <sup>2</sup> )	2	3	10	8	14	6	13	7	9	7	5	1	2	2	3	4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	
Goods-producing industries .....	878	11.59	10.86	9.35 - 13.66	-	-	3	-	4	1	-	1	10	3	17	12	15	4	9	2	3	1	6	7	( <sup>2</sup> )	( <sup>2</sup> )	1	
Manufacturing .....	877	11.59	10.86	9.35 - 13.66	-	-	3	-	4	1	-	1	10	3	17	12	15	4	9	2	3	1	6	7	( <sup>2</sup> )	( <sup>2</sup> )	1	
Service-producing industries .....	820	8.92	8.00	7.07 - 9.32	-	-	2	1	( <sup>2</sup> )	4	21	16	18	8	9	2	3	10	( <sup>2</sup> )	( <sup>2</sup> )	1	4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	-	

See footnotes at end of table.



**Table A-6. Establishments employing 500 workers or more: Weekly hours and pay of professional and administrative occupations, St. Louis, MO-IL, March 1995**

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>			Percent of workers receiving straight-time weekly pay (in dollars) of—																						
			Mean	Median	Middle range	300 and under 350	350-400	400-450	450-500	500-600	600-700	700-800	800-900	900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1800	1800-2000	2000-2200	2200-2400	2400-2600	2600 and over		
<b>PROFESSIONAL OCCUPATIONS</b>																												
<b>Accountants</b>																												
Level I .....	274	40.0	\$491	\$481	\$440 - \$535	( <sup>3</sup> )	9	17	39	23	8	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	249	40.0	492	481	440 - 538	( <sup>3</sup> )	10	17	38	23	9	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Goods-producing industries .....	75	39.9	547	-	- - -	-	-	12	20	47	15	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing .....	75	39.9	547	-	- - -	-	-	12	20	47	15	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Service-producing industries .....	174	40.0	468	462	419 - 494	1	15	19	45	13	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Transportation and utilities .....	38	40.0	444	-	- - -	-	26	16	55	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Level II .....	433	39.9	599	588	537 - 650	-	( <sup>3</sup> )	4	8	42	33	10	1	1	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	365	40.0	599	587	537 - 651	-	( <sup>3</sup> )	5	8	42	32	10	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Goods-producing industries .....	146	40.0	644	621	558 - 712	-	-	3	2	36	32	20	3	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufacturing .....	145	40.0	644	623	559 - 712	-	-	3	2	36	32	20	3	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Service-producing industries .....	219	40.0	570	576	514 - 620	-	( <sup>3</sup> )	6	12	45	32	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
State and local government .....	68	39.6	596	597	555 - 635	-	-	-	6	44	41	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Level III .....	356	39.9	750	745	673 - 815	-	-	-	1	5	26	39	19	9	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	310	40.0	749	741	670 - 816	-	-	-	1	5	27	38	18	10	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Goods-producing industries .....	134	40.0	782	785	716 - 835	-	-	-	1	2	16	39	25	15	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufacturing .....	132	40.0	784	786	717 - 835	-	-	-	2	2	16	39	25	15	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Service-producing industries .....	176	39.9	725	710	652 - 795	-	-	-	1	7	35	37	14	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Transportation and utilities .....	31	40.0	752	-	- - -	-	-	-	-	7	42	19	23	16	-	-	-	-	-	-	-	-	-	-	-	-	-	
State and local government .....	46	39.7	751	770	714 - 800	-	-	-	-	7	17	50	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Level IV .....	312	39.9	944	961	828 - 1,029	-	-	-	-	1	4	15	17	25	24	8	4	1	1	-	-	-	-	-	-	-	-	-
Private industry .....	294	39.9	949	962	832 - 1,029	-	-	-	-	1	4	15	16	26	25	9	4	1	1	-	-	-	-	-	-	-	-	-
Goods-producing industries .....	138	39.9	987	994	907 - 1,064	-	-	-	-	1	1	12	9	28	30	11	7	1	-	-	-	-	-	-	-	-	-	-
Manufacturing .....	137	39.9	987	990	907 - 1,064	-	-	-	-	1	1	12	9	28	29	11	7	1	-	-	-	-	-	-	-	-	-	-
Service-producing industries .....	156	40.0	914	920	808 - 1,000	-	-	-	-	1	7	17	22	23	21	6	1	1	1	-	-	-	-	-	-	-	-	-
Transportation and utilities .....	33	40.0	913	-	- - -	-	-	-	-	3	30	21	24	12	3	-	-	6	-	-	-	-	-	-	-	-	-	
Level V .....	177	39.9	1,223	1,250	1,080 - 1,378	-	-	-	-	1	2	6	10	8	12	23	16	11	4	5	1	-	-	-	-	-	-	
Private industry .....	172	39.9	1,227	1,256	1,082 - 1,384	-	-	-	-	1	2	6	10	8	12	23	16	12	4	5	1	-	-	-	-	-	-	
Goods-producing industries .....	102	40.0	1,236	1,276	1,080 - 1,400	-	-	-	-	2	4	6	8	10	13	15	20	10	5	8	1	-	-	-	-	-	-	
Manufacturing .....	102	40.0	1,236	1,276	1,080 - 1,400	-	-	-	-	2	4	6	8	10	13	15	20	10	5	8	1	-	-	-	-	-	-	
Service-producing industries .....	70	39.9	1,214	-	- - -	-	-	-	-	-	-	-	6	14	4	11	36	11	14	3	-	-	-	-	-	-	-	
Transportation and utilities .....	28	40.0	1,324	-	- - -	-	-	-	-	-	-	-	-	-	-	7	50	11	25	7	-	-	-	-	-	-	-	
<b>Attorneys</b>																												
Level II .....	70	39.9	934	-	- - -	-	-	-	-	3	19	34	11	10	19	4	-	-	-	-	-	-	-	-	-	-	-	
State and local government .....	42	39.8	836	819	776 - 898	-	-	-	-	5	31	50	10	5	-	-	-	-	-	-	-	-	-	-	-	-	-	
Level III .....	104	40.0	1,245	1,251	1,124 - 1,375	-	-	-	-	-	-	1	12	10	20	12	27	10	10	-	-	-	-	-	-	-	-	
Private industry .....	76	40.0	1,315	-	- - -	-	-	-	-	-	-	-	4	4	14	14	37	13	13	-	-	-	-	-	-	-	-	
State and local government .....	28	40.0	1,055	-	- - -	-	-	-	-	-	-	4	32	25	36	4	-	-	-	-	-	-	-	-	-	-	-	
Level IV .....	84	40.0	1,601	1,631	1,398 - 1,743	-	-	-	-	-	-	-	-	1	1	11	13	8	10	38	17	1	-	-	-	-	-	
Private industry .....	68	40.0	1,668	-	- - -	-	-	-	-	-	-	-	-	-	-	4	7	9	10	47	21	1	-	-	-	-	-	

See footnotes at end of table.

**Table A-6. Establishments employing 500 workers or more: Weekly hours and pay of professional and administrative occupations, St. Louis, MO-IL, March 1995 — Continued**

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>				Percent of workers receiving straight-time weekly pay (in dollars) of—																						
			Mean	Median	Middle range		300 and under 350	350 - 400	400 - 450	450 - 500	500 - 600	600 - 700	700 - 800	800 - 900	900 - 1000	1000 - 1100	1100 - 1200	1200 - 1300	1300 - 1400	1400 - 1500	1500 - 1600	1600 - 1800	1800 - 2000	2000 - 2200	2200 - 2400	2400 - 2600	2600 and over		
<b>Engineers</b>																													
Level I:																													
State and local government .....	40	39.6	\$616	\$622	\$582	-	\$649	-	-	-	-	38	57	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Level II:																													
Private industry:																													
Service-producing industries .....	60	40.0	698	-	-	-	-	-	-	-	-	58	35	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
State and local government .....	71	39.3	700	703	653	-	746	-	-	-	-	11	37	48	3	1	-	-	-	-	-	-	-	-	-	-	-	-	
Level III:																													
Private industry:																													
Service-producing industries .....	156	40.0	864	855	757	-	971	-	-	-	1	-	1	40	19	24	13	3	-	-	-	-	-	-	-	-	-	-	
State and local government .....	145	39.7	789	790	691	-	853	-	-	-	-	-	26	41	19	10	3	1	-	-	-	-	-	-	-	-	-	-	
Level IV:																													
Private industry:																													
Service-producing industries .....	129	40.0	941	946	839	-	1,021	-	-	-	-	2	2	8	29	27	22	6	2	2	-	-	-	-	-	-	-	-	
Transportation and utilities .....	36	40.0	942	-	-	-	-	-	-	-	-	8	6	14	22	6	22	8	8	6	-	-	-	-	-	-	-	-	
State and local government .....	79	39.7	937	938	864	-	1,014	-	-	-	-	-	-	8	35	20	33	4	-	-	-	-	-	-	-	-	-	-	
Level V:																													
State and local government .....	32	39.6	1,111	-	-	-	-	-	-	-	-	-	-	-	-	34	6	25	31	-	3	-	-	-	-	-	-	-	
Level VIII:																													
Private industry .....	64	40.0	2,008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	3	16	53	5	3	3	13	
State and local government .....	64	40.0	2,008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	3	16	53	5	3	3	13	
<b>Registered Nurses</b>																													
Level II:																													
Private industry .....	7,264	39.8	670	672	563	-	766	-	( <sup>3</sup> )	( <sup>3</sup> )	7	25	25	25	17	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-
Service-producing industries .....	7,017	39.8	672	676	563	-	769	-	( <sup>3</sup> )	( <sup>3</sup> )	7	25	24	25	18	1	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-
State and local government .....	6,972	39.8	672	676	563	-	770	-	( <sup>3</sup> )	( <sup>3</sup> )	7	25	24	25	18	1	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	247	39.5	612	652	540	-	652	-	2	2	9	24	55	8	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Level II specialists:																													
Private industry .....	571	40.0	725	750	662	-	780	-	-	-	-	13	23	47	17	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-
Service-producing industries .....	571	40.0	725	750	662	-	780	-	-	-	-	13	23	47	17	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-
Service-producing industries .....	571	40.0	725	750	662	-	780	-	-	-	-	13	23	47	17	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-
Level III:																													
Private industry .....	204	40.0	873	852	812	-	925	-	-	-	-	5	15	51	17	6	4	2	-	-	-	-	-	-	-	-	-	-	
Service-producing industries .....	194	40.0	874	854	812	-	930	-	-	-	-	5	15	49	16	7	4	3	-	-	-	-	-	-	-	-	-	-	
Service-producing industries .....	194	40.0	874	854	812	-	930	-	-	-	-	5	15	49	16	7	4	3	-	-	-	-	-	-	-	-	-	-	
Level III anesthetists:																													
Private industry .....	65	40.0	1,497	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	25	28	11	22	3	2	-	-	-	-	
Service-producing industries .....	65	40.0	1,497	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	25	28	11	22	3	2	-	-	-	-	
Service-producing industries .....	65	40.0	1,497	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	25	28	11	22	3	2	-	-	-	-	

See footnotes at end of table.

Table A-6. Establishments employing 500 workers or more: Weekly hours and pay of professional and administrative occupations, St. Louis, MO-IL, March 1995 — Continued

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>			Percent of workers receiving straight-time weekly pay (in dollars) of—																						
			Mean	Median	Middle range	300 and under 350	350 - 400	400 - 450	450 - 500	500 - 600	600 - 700	700 - 800	800 - 900	900 - 1000	1000 - 1100	1100 - 1200	1200 - 1300	1300 - 1400	1400 - 1500	1500 - 1600	1600 - 1800	1800 - 2000	2000 - 2200	2200 - 2400	2400 - 2600	2600 and over		
<b>ADMINISTRATIVE OCCUPATIONS</b>																												
<b>Buyers/Contracting Specialists</b>																												
Level I .....	68	40.0	\$511	-	-	-	-	3	25	21	38	12	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	58	40.0	510	-	-	-	-	3	24	22	34	14	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Level II .....	228	40.0	645	\$635	\$590	\$691	-	-	-	1	31	48	13	4	2	1	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	207	40.0	646	639	584	692	-	-	-	1	33	45	13	5	2	1	-	-	-	-	-	-	-	-	-	-	-	
Level III .....	244	40.0	839	813	740	945	-	-	-	( <sup>3</sup> )	( <sup>3</sup> )	10	34	25	18	8	3	1	-	-	-	-	-	-	-	-	-	
Private industry .....	243	40.0	840	814	744	945	-	-	-	( <sup>3</sup> )	( <sup>3</sup> )	10	34	25	18	8	3	1	-	-	-	-	-	-	-	-	-	
<b>Computer Programmers</b>																												
Level I .....	84	39.6	506	493	462	540	-	1	2	49	43	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	78	39.6	505	-	-	-	-	1	1	51	41	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Service-producing industries .....	62	39.5	494	-	-	-	-	2	2	65	26	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Level II .....	317	39.9	609	610	562	654	-	-	1	5	39	45	9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	292	39.8	610	610	563	657	-	-	1	5	38	45	10	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Service-producing industries .....	223	39.8	599	594	548	649	-	-	2	6	44	38	9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
State and local government .....	25	39.9	600	-	-	-	-	-	-	-	44	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Level III .....	324	39.9	710	721	644	769	-	-	-	1	13	27	42	15	2	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	302	40.0	708	720	644	766	-	-	-	1	13	28	43	13	2	-	-	-	-	-	-	-	-	-	-	-	-	
Goods-producing industries .....	89	39.9	741	748	673	815	-	-	-	-	9	29	31	25	6	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing .....	89	39.9	741	748	673	815	-	-	-	-	9	29	31	25	6	-	-	-	-	-	-	-	-	-	-	-	-	
Service-producing industries .....	213	40.0	694	712	644	754	-	-	-	1	15	27	48	8	1	-	-	-	-	-	-	-	-	-	-	-	-	
Level IV .....	71	40.0	857	-	-	-	-	-	-	-	-	6	23	34	32	6	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	64	40.0	852	-	-	-	-	-	-	-	-	6	23	38	27	6	-	-	-	-	-	-	-	-	-	-	-	
<b>Computer Systems Analysts</b>																												
Level I .....	509	39.9	764	757	692	825	-	-	-	-	5	24	39	21	9	2	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-
Private industry .....	490	39.9	768	762	696	829	-	-	-	-	3	23	39	22	9	2	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-
Goods-producing industries .....	318	40.0	795	779	720	855	-	-	-	-	( <sup>3</sup> )	19	38	25	14	3	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	
Manufacturing .....	318	40.0	795	779	720	855	-	-	-	-	( <sup>3</sup> )	19	38	25	14	3	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	
Service-producing industries .....	172	39.6	718	719	658	772	-	-	-	-	9	32	41	16	1	1	-	-	-	-	-	-	-	-	-	-	-	
Level II .....	1,472	39.9	884	873	812	948	-	-	-	-	( <sup>3</sup> )	4	16	38	27	9	3	1	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	
Private industry .....	1,433	39.9	885	874	813	948	-	-	-	-	( <sup>3</sup> )	4	16	39	27	9	3	1	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	
Goods-producing industries .....	428	40.0	967	958	885	1,038	-	-	-	-	-	( <sup>3</sup> )	7	22	35	22	8	4	1	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	
Manufacturing .....	428	40.0	967	958	885	1,038	-	-	-	-	-	( <sup>3</sup> )	7	22	35	22	8	4	1	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	
Service-producing industries .....	1,005	39.9	850	849	798	908	-	-	-	-	1	5	20	46	24	4	1	-	-	-	-	-	-	-	-	-	-	
State and local government .....	39	39.6	829	-	-	-	-	-	-	-	-	23	23	21	21	13	-	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

**Table A-6. Establishments employing 500 workers or more: Weekly hours and pay of professional and administrative occupations, St. Louis, MO-IL, March 1995 — Continued**

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>			Percent of workers receiving straight-time weekly pay (in dollars) of—																				
			Mean	Median	Middle range	300 and under 350	350 - 400	400 - 450	450 - 500	500 - 600	600 - 700	700 - 800	800 - 900	900 - 1000	1000 - 1100	1100 - 1200	1200 - 1300	1300 - 1400	1400 - 1500	1500 - 1600	1600 - 1800	1800 - 2000	2000 - 2200	2200 - 2400	2400 - 2600	2600 and over
<b>Level III</b> .....	833	39.9	\$1,047	\$1,042	\$962 - \$1,123	-	-	-	-	-	2	3	9	23	33	19	7	2	2	1	( <sup>3</sup> )	-	-	-	-	-
Private industry .....	820	39.9	1,048	1,043	962 - 1,123	-	-	-	-	-	2	3	9	23	33	19	7	2	2	1	( <sup>3</sup> )	-	-	-	-	-
Goods-producing industries .....	213	40.0	1,179	1,153	1,064 - 1,258	-	-	-	-	-	-	-	1	9	25	25	20	7	7	4	2	-	-	-	-	-
Manufacturing .....	213	40.0	1,179	1,153	1,064 - 1,258	-	-	-	-	-	-	-	1	9	25	25	20	7	7	4	2	-	-	-	-	-
Service-producing industries .....	607	39.9	1,002	1,012	939 - 1,083	-	-	-	-	-	2	4	11	27	36	17	2	-	-	-	-	-	-	-	-	-
State and local government .....	13	39.2	973	-	-	-	-	-	-	-	8	8	8	23	46	8	-	-	-	-	-	-	-	-	-	-
<b>Level IV</b> .....	115	39.8	1,219	1,220	1,152 - 1,306	-	-	-	-	-	-	-	-	3	13	25	32	25	2	-	-	-	-	-	-	-
Private industry .....	114	39.8	1,220	1,221	1,154 - 1,306	-	-	-	-	-	-	-	-	3	13	25	32	25	2	-	-	-	-	-	-	-
Service-producing industries .....	76	39.7	1,188	-	-	-	-	-	-	-	-	-	-	4	20	33	21	22	-	-	-	-	-	-	-	-
<b>Computer Systems Analyst Supervisors/Managers</b>																										
<b>Level I</b> .....	165	40.0	1,103	1,079	1,011 - 1,174	-	-	-	-	-	-	1	5	19	32	23	10	5	4	2	1	-	-	-	-	-
Private industry .....	157	40.0	1,102	1,074	1,000 - 1,179	-	-	-	-	-	-	1	4	20	33	20	10	5	4	2	1	-	-	-	-	-
Service-producing industries .....	117	40.0	1,080	1,058	1,012 - 1,162	-	-	-	-	-	-	2	3	18	40	20	12	3	2	-	-	-	-	-	-	-
<b>Level II</b> .....	137	40.0	1,351	1,320	1,204 - 1,440	-	-	-	-	-	-	-	1	7	15	22	26	13	7	6	5	-	-	-	-	-
Private industry .....	136	40.0	1,351	1,322	1,204 - 1,441	-	-	-	-	-	-	-	1	7	15	21	26	13	7	6	5	-	-	-	-	-
Goods-producing industries .....	64	40.0	1,421	-	-	-	-	-	-	-	-	-	-	6	14	11	23	16	6	13	11	-	-	-	-	-
Manufacturing .....	64	40.0	1,421	-	-	-	-	-	-	-	-	-	-	6	14	11	23	16	6	13	11	-	-	-	-	-
Service-producing industries .....	72	40.0	1,289	-	-	-	-	-	-	-	-	-	1	7	15	31	28	11	7	-	-	-	-	-	-	-
<b>Personnel Specialists</b>																										
<b>Level I</b> .....	64	40.0	486	-	-	-	-	9	19	39	22	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	53	40.0	478	-	-	-	-	11	21	42	15	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
State and local government .....	11	39.8	526	-	-	-	-	-	9	27	55	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Level II</b> .....	222	39.9	612	586	541 - 672	-	-	1	9	43	27	14	5	1	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	181	39.9	608	577	535 - 663	-	-	1	11	46	23	12	6	1	-	-	-	-	-	-	-	-	-	-	-	-
Goods-producing industries .....	56	39.9	656	-	-	-	-	-	4	34	34	14	13	2	-	-	-	-	-	-	-	-	-	-	-	-
Manufacturing .....	56	39.9	656	-	-	-	-	-	4	34	34	14	13	2	-	-	-	-	-	-	-	-	-	-	-	-
Service-producing industries .....	125	39.9	586	564	516 - 618	-	-	2	14	51	18	11	2	1	-	-	-	-	-	-	-	-	-	-	-	-
State and local government .....	41	40.0	630	622	575 - 678	-	-	-	2	32	46	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Level III</b> .....	239	40.0	768	762	692 - 830	-	-	-	1	5	21	38	24	6	3	1	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-
Private industry .....	218	40.0	769	762	694 - 829	-	-	-	1	5	21	40	23	5	4	1	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-
Goods-producing industries .....	68	40.0	821	-	-	-	-	-	-	3	10	32	37	9	4	3	1	-	-	-	-	-	-	-	-	-
Manufacturing .....	68	40.0	821	-	-	-	-	-	-	3	10	32	37	9	4	3	1	-	-	-	-	-	-	-	-	-
Service-producing industries .....	150	40.0	745	757	683 - 788	-	-	-	1	6	25	44	17	3	3	-	-	-	-	-	-	-	-	-	-	-
Transportation and utilities .....	26	40.0	823	-	-	-	-	-	-	-	19	15	46	8	12	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

**Table A-6. Establishments employing 500 workers or more: Weekly hours and pay of professional and administrative occupations, St. Louis, MO-IL, March 1995 — Continued**

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>			Percent of workers receiving straight-time weekly pay (in dollars) of—																					
			Mean	Median	Middle range	300 and under 350	350 - 400	400 - 450	450 - 500	500 - 600	600 - 700	700 - 800	800 - 900	900 - 1000	1000 - 1100	1100 - 1200	1200 - 1300	1300 - 1400	1400 - 1500	1500 - 1600	1600 - 1800	1800 - 2000	2000 - 2200	2200 - 2400	2400 - 2600	2600 and over	
Level IV .....	202	40.0	\$983	\$970	\$875 - \$1,067	-	-	-	-	( <sup>3</sup> )	2	8	20	27	24	8	8	1	1	-	-	-	-	-	-	-	-
Private industry .....	192	40.0	985	971	874 - 1,072	-	-	-	-	1	2	8	19	27	24	8	8	2	1	-	-	-	-	-	-	-	-
Goods-producing industries .....	96	39.9	1,009	990	885 - 1,087	-	-	-	-	-	-	4	23	24	28	8	9	2	1	-	-	-	-	-	-	-	-
Manufacturing .....	96	39.9	1,009	990	885 - 1,087	-	-	-	-	-	-	4	23	24	28	8	9	2	1	-	-	-	-	-	-	-	-
Service-producing industries .....	96	40.0	961	960	850 - 1,056	-	-	-	-	1	4	11	15	30	21	8	7	1	1	-	-	-	-	-	-	-	-
Level V .....	54	40.0	1,290	-	- - -	-	-	-	-	-	-	-	2	4	6	17	19	31	9	7	6	-	-	-	-	-	-
Private industry .....	54	40.0	1,290	-	- - -	-	-	-	-	-	-	-	2	4	6	17	19	31	9	7	6	-	-	-	-	-	-
<b>Personnel Supervisors/Managers</b>																											
Level I:																											
State and local government .....	8	40.0	1,007	-	- - -	-	-	-	-	-	-	25	13	-	25	13	25	-	-	-	-	-	-	-	-	-	-

<sup>1</sup> Standard hours reflect the workweek for which employees receive their regular straight-time salaries (exclusive of pay for overtime at regular and/or premium rates), and the earnings correspond to these weekly hours.

<sup>2</sup> Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. Also excluded are performance bonuses and lump-sum payments of the type negotiated in the auto and aerospace industries, as well as profit-sharing payments, attendance bonuses, Christmas or year-end bonuses, and other nonproduction bonuses. Pay increases, but not bonuses, under cost-of-living clauses, and incentive payments, however, are included. See Appendix A for definitions and methods used to compute means, medians, and middle ranges.

<sup>3</sup> Less than 0.5 percent.

<sup>4</sup> Workers were distributed as follows: 6 percent at \$2,600 and under \$2,800; 3 percent at \$3,000 and under \$3,200; and 3 percent at \$3,600 and under \$3,800.

NOTE: Because of rounding, sums of individual intervals may not equal 100 percent. Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupation or occupational levels may include data for categories not shown separately.

Table A-7. Establishments employing 500 workers or more: Weekly hours and pay of technical and protective service occupations, St. Louis, MO-IL, March 1995

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>			Percent of workers receiving straight-time weekly pay (in dollars) of—																					
			Mean	Median	Middle range	200 and under 225	225 - 250	250 - 275	275 - 300	300 - 325	325 - 350	350 - 375	375 - 400	400 - 425	425 - 450	450 - 500	500 - 550	550 - 600	600 - 650	650 - 700	700 - 750	750 - 800	800 - 850	850 - 900	900 - 1000	1000 - 1100	
<b>TECHNICAL OCCUPATIONS</b>																											
<b>Computer Operators</b>																											
Level II .....	244	39.9	\$452	\$440	\$398 - \$508	-	-	-	1	3	2	9	10	16	14	18	21	2	3	( <sup>3</sup> )	-	-	-	-	-	-	-
Private industry .....	218	39.9	452	440	396 - 531	-	-	-	1	3	2	9	11	16	12	17	22	2	3	( <sup>3</sup> )	-	-	-	-	-	-	-
Service-producing industries .....	179	39.9	449	437	394 - 539	-	-	-	1	3	2	8	13	15	13	15	24	3	1	1	-	-	-	-	-	-	-
State and local government .....	26	39.7	454	-	- - -	-	-	-	-	-	8	8	4	12	31	19	8	4	8	-	-	-	-	-	-	-	-
Level III .....	355	40.0	565	557	506 - 593	-	-	-	-	( <sup>3</sup> )	-	( <sup>3</sup> )	3	2	2	16	9	43	7	6	5	6	-	-	1	-	
Private industry .....	334	40.0	568	557	518 - 608	-	-	-	-	( <sup>3</sup> )	-	( <sup>3</sup> )	3	2	2	15	7	45	8	6	5	6	-	-	1	-	
Goods-producing industries .....	70	40.0	543	-	- - -	-	-	-	-	1	-	1	1	3	7	21	21	17	14	9	-	-	-	-	3	-	
Manufacturing .....	70	40.0	543	-	- - -	-	-	-	-	1	-	1	1	3	7	21	21	17	14	9	-	-	-	-	3	-	
Service-producing industries .....	264	40.0	574	557	557 - 606	-	-	-	-	-	-	-	3	2	1	13	3	53	6	6	6	8	-	-	-	-	
<b>Drafters</b>																											
Level II .....	77	39.9	563	-	- - -	-	-	-	-	-	-	4	1	8	4	14	17	4	21	27	-	-	-	-	-	-	-
Level III .....	75	39.8	603	-	- - -	-	-	-	-	-	-	3	-	-	3	12	12	13	21	15	21	-	-	-	-	-	-
Private industry .....	62	39.9	608	-	- - -	-	-	-	-	-	-	3	-	-	3	13	11	8	19	18	24	-	-	-	-	-	-
State and local government .....	13	39.6	576	-	- - -	-	-	-	-	-	-	-	-	-	-	8	15	38	31	-	8	-	-	-	-	-	-
Level IV .....	59	39.7	659	-	- - -	-	-	-	-	-	-	-	-	3	3	14	8	2	7	20	8	24	5	3	2	-	-
Private industry .....	59	39.7	659	-	- - -	-	-	-	-	-	-	-	-	3	3	14	8	2	7	20	8	24	5	3	2	-	-
<b>Engineering Technicians</b>																											
Level III .....	260	40.0	550	541	481 - 606	-	-	-	-	-	-	1	7	4	23	18	19	15	6	5	-	2	-	( <sup>3</sup> )	-	-	
Private industry .....	260	40.0	550	541	481 - 606	-	-	-	-	-	-	1	7	4	23	18	19	15	6	5	-	2	-	( <sup>3</sup> )	-	-	
Goods-producing industries .....	246	40.0	543	537	479 - 601	-	-	-	-	-	-	1	7	4	25	17	19	15	6	4	-	1	-	-	-	-	
Manufacturing .....	246	40.0	543	537	479 - 601	-	-	-	-	-	-	1	7	4	25	17	19	15	6	4	-	1	-	-	-	-	
<b>Engineering Technicians, Civil</b>																											
Level II:																											
State and local government .....	50	39.8	429	435	392 - 463	-	-	-	-	-	-	16	12	14	22	36	-	-	-	-	-	-	-	-	-	-	-
Level III .....	142	39.8	544	551	493 - 582	-	-	-	-	-	-	-	-	-	4	23	23	31	15	5	-	-	-	-	-	-	
State and local government .....	132	39.8	543	549	489 - 582	-	-	-	-	-	-	-	-	-	4	24	22	30	15	5	-	-	-	-	-	-	
Level IV .....	80	39.6	644	622	579 - 713	-	-	-	-	-	-	-	-	-	-	1	9	21	26	10	27	1	4	-	-	-	
State and local government .....	71	39.6	638	615	579 - 713	-	-	-	-	-	-	-	-	-	-	1	8	23	28	8	28	1	1	-	-	-	
<b>Licensed Practical Nurses</b>																											
Level II .....	1,134	40.0	476	488	424 - 529	-	-	-	-	1	2	4	11	8	9	21	36	8	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	( <sup>3</sup> )	-	-	-	
Private industry .....	976	40.0	481	497	431 - 531	-	-	-	-	2	2	4	6	9	7	22	38	9	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	( <sup>3</sup> )	-	-	-	
Service-producing industries .....	976	40.0	481	497	431 - 531	-	-	-	-	2	2	4	6	9	7	22	38	9	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	( <sup>3</sup> )	-	-	-	
State and local government .....	158	40.0	443	427	396 - 496	-	-	-	-	-	1	1	37	2	20	14	25	-	-	-	-	-	-	-	-	-	
<b>Nursing Assistants</b>																											
Level I .....	178	40.0	282	272	232 - 336	9	29	12	9	9	28	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Level II .....	1,882	40.0	330	320	268 - 383	2	10	18	14	11	12	8	9	4	4	9	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	
Private industry .....	1,464	40.0	300	288	259 - 338	2	13	23	18	13	15	9	5	1	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	
Service-producing industries .....	1,464	40.0	300	288	259 - 338	2	13	23	18	13	15	9	5	1	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	

See footnotes at end of table.

**Table A-7. Establishments employing 500 workers or more: Weekly hours and pay of technical and protective service occupations, St. Louis, MO-IL, March 1995 — Continued**

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>				Percent of workers receiving straight-time weekly pay (in dollars) of—																					
			Mean	Median	Middle range		200 and under 225	225 - 250	250 - 275	275 - 300	300 - 325	325 - 350	350 - 375	375 - 400	400 - 425	425 - 450	450 - 500	500 - 550	550 - 600	600 - 650	650 - 700	700 - 750	750 - 800	800 - 850	850 - 900	900 - 1000	1000 - 1100	
<b>PROTECTIVE SERVICE OCCUPATIONS</b>																												
<b>Corrections Officers</b> .....	966	40.0	\$476	\$456	\$384	-	\$593	-	-	-	-	-	1	12	22	4	7	14	7	28	3	1	( <sup>3</sup> )	-	-	-	-	-
State and local government .....	966	40.0	476	456	384	-	593	-	-	-	-	-	1	12	22	4	7	14	7	28	3	1	( <sup>3</sup> )	-	-	-	-	-
<b>Firefighters:</b>																												
State and local government .....	539	52.0	636	649	589	-	679	-	-	-	-	-	-	-	-	-	-	-	6	20	28	35	9	-	-	1	1	-
<b>Police Officers</b>																												
Level I .....	1,935	40.0	635	649	564	-	700	-	-	-	-	-	-	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	1	20	11	18	24	22	3	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
State and local government .....	1,924	40.0	635	652	564	-	701	-	-	-	-	-	-	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	1	20	11	18	24	22	3	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup> Standard hours reflect the workweek for which employees receive their regular straight-time salaries (exclusive of pay for overtime at regular and/or premium rates), and the earnings correspond to these weekly hours.

<sup>2</sup> Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. Also excluded are performance bonuses and lump-sum payments of the type negotiated in the auto and aerospace industries, as well as profit-sharing payments, attendance bonuses, Christmas or year-end bonuses, and other nonproduction bonuses. Pay increases, but not bonuses, under cost-of-living clauses, and incentive payments, however, are included. See Appendix A for definitions and methods used to

compute means, medians, and middle ranges.

<sup>3</sup> Less than 0.5 percent.

NOTE: Because of rounding, sums of individual intervals may not equal 100 percent. Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupation or occupational levels may include data for categories not shown separately.

Table A-8. Establishments employing 500 workers or more: Weekly hours and pay of clerical occupations, St. Louis, MO-IL, March 1995

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>			Percent of workers receiving straight-time weekly pay (in dollars) of—																				
			Mean	Median	Middle range	Under 200	200-225	225-250	250-275	275-300	300-325	325-350	350-400	400-450	450-500	500-550	550-600	600-650	650-700	700-750	750-800	800-850	850-900	900-950	950-1000	1000 and over
<b>Clerks, Accounting</b>																										
Level I	253	40.0	\$357	\$298	\$276 - \$526	-	-	4	6	46	11	2	3	2	-	28	-	-	-	-	-	-	-	-	-	-
Private industry	253	40.0	357	298	276 - 526	-	-	4	6	46	11	2	3	2	-	28	-	-	-	-	-	-	-	-	-	-
Service-producing industries	251	40.0	356	298	276 - 526	-	-	4	6	46	11	2	2	2	-	28	-	-	-	-	-	-	-	-	-	-
Level II	1,208	39.9	411	380	316 - 539	-	-	( <sup>3</sup> )	4	11	15	11	14	7	4	32	( <sup>3</sup> )	1	-	-	-	-	-	-	-	-
Private industry	1,108	39.9	415	381	318 - 539	-	-	( <sup>3</sup> )	4	10	15	11	13	6	4	35	1	2	-	-	-	-	-	-	-	-
Goods-producing industries	173	40.0	377	355	310 - 448	-	-	2	6	9	15	14	18	13	15	4	2	2	-	-	-	-	-	-	-	-
Manufacturing	170	40.0	377	353	310 - 450	-	-	2	6	9	15	14	17	12	15	4	2	2	-	-	-	-	-	-	-	-
Service-producing industries	935	39.9	422	388	318 - 539	-	-	( <sup>3</sup> )	4	10	15	10	13	5	1	40	( <sup>3</sup> )	1	-	-	-	-	-	-	-	-
State and local government	100	39.7	373	355	305 - 441	-	-	-	4	20	11	10	19	14	15	7	-	-	-	-	-	-	-	-	-	-
Level III	1,012	39.9	447	420	367 - 499	-	-	-	( <sup>3</sup> )	1	3	10	25	22	13	7	5	9	4	-	-	-	-	-	-	-
Private industry	743	40.0	454	420	369 - 528	-	-	-	1	1	3	9	27	22	9	5	6	12	6	-	-	-	-	-	-	-
Goods-producing industries	162	39.9	462	466	387 - 528	-	-	-	2	2	2	7	17	16	18	16	11	7	2	-	-	-	-	-	-	-
Manufacturing	157	39.9	462	468	384 - 528	-	-	-	2	2	2	8	17	15	18	17	11	7	2	-	-	-	-	-	-	-
Service-producing industries	581	40.0	452	415	366 - 536	-	-	-	( <sup>3</sup> )	1	4	9	29	24	6	2	5	13	7	-	-	-	-	-	-	-
Transportation and utilities	149	40.0	625	631	631 - 675	-	-	-	-	-	-	-	1	1	1	5	13	51	28	-	-	-	-	-	-	-
State and local government	269	39.6	426	428	360 - 485	-	-	-	-	-	1	13	22	23	25	13	1	( <sup>3</sup> )	-	-	-	-	-	-	-	-
Level IV	357	40.0	511	515	451 - 591	-	-	-	-	-	( <sup>3</sup> )	1	11	12	20	17	28	6	4	-	1	-	-	-	-	-
Private industry	302	40.0	514	517	439 - 591	-	-	-	-	-	( <sup>3</sup> )	1	11	14	17	16	29	7	4	-	1	-	-	-	-	-
Goods-producing industries	95	40.0	540	529	486 - 588	-	-	-	-	-	-	2	6	2	21	25	20	13	8	-	2	-	-	-	-	-
Manufacturing	94	40.0	540	529	486 - 588	-	-	-	-	-	-	2	6	2	21	24	20	13	9	-	2	-	-	-	-	-
Service-producing industries	207	40.0	501	503	423 - 591	-	-	-	-	-	( <sup>3</sup> )	1	14	19	14	11	34	4	2	-	-	-	-	-	-	-
State and local government	55	39.9	494	488	470 - 538	-	-	-	-	-	-	-	11	4	36	27	18	4	-	-	-	-	-	-	-	-
<b>Clerks, General</b>																										
Level I	152	40.0	279	270	251 - 303	5	6	11	37	16	9	7	9	2	-	-	-	-	-	-	-	-	-	-	-	-
Private industry	144	40.0	276	269	251 - 299	5	6	11	37	16	10	7	8	1	-	-	-	-	-	-	-	-	-	-	-	-
Service-producing industries	137	40.0	272	268	251 - 291	5	7	12	39	15	10	7	5	1	-	-	-	-	-	-	-	-	-	-	-	-
Level II	1,020	39.8	332	322	286 - 371	-	( <sup>3</sup> )	3	14	18	16	14	22	10	2	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-
Private industry	535	39.9	325	315	283 - 359	-	-	5	14	23	14	15	20	9	1	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-
Service-producing industries	436	39.9	318	304	280 - 355	-	-	6	16	25	14	12	19	7	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-
State and local government	485	39.6	340	332	294 - 382	-	( <sup>3</sup> )	( <sup>3</sup> )	13	14	19	13	25	12	4	-	-	-	-	-	-	-	-	-	-	-
Level III	1,687	39.8	387	366	316 - 451	-	-	( <sup>3</sup> )	2	13	12	14	21	13	15	5	4	( <sup>3</sup> )	-	-	-	1	-	-	-	-
Private industry	678	39.9	425	407	348 - 502	-	-	1	3	6	7	8	21	14	13	13	11	( <sup>3</sup> )	-	-	-	2	-	-	-	-
Service-producing industries	452	39.9	413	384	324 - 526	-	-	1	5	10	10	11	18	6	10	14	16	( <sup>3</sup> )	-	-	-	-	-	-	-	-
Transportation and utilities	203	40.0	504	526	463 - 570	-	-	2	2	3	-	1	1	1	22	32	35	( <sup>3</sup> )	-	-	-	-	-	-	-	-
State and local government	1,009	39.7	362	346	305 - 411	-	-	( <sup>3</sup> )	( <sup>3</sup> )	18	16	18	20	12	16	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-
Level IV	634	39.9	463	473	383 - 539	-	-	-	-	( <sup>3</sup> )	2	10	19	14	13	32	2	7	( <sup>3</sup> )	-	-	-	-	-	-	-
Private industry	368	39.9	506	539	452 - 539	-	-	-	-	-	1	1	10	13	9	50	3	13	1	-	-	-	-	-	-	-
Service-producing industries	248	39.9	511	539	446 - 539	-	-	-	-	-	1	2	12	11	3	52	1	19	-	-	-	-	-	-	-	-
State and local government	266	39.7	404	389	351 - 459	-	-	-	-	( <sup>3</sup> )	3	21	32	16	18	7	2	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table A-8. Establishments employing 500 workers or more: Weekly hours and pay of clerical occupations, St. Louis, MO-IL, March 1995 — Continued

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>			Percent of workers receiving straight-time weekly pay (in dollars) of—																				
			Mean	Median	Middle range	Under 200	200 - 225	225 - 250	250 - 275	275 - 300	300 - 325	325 - 350	350 - 400	400 - 450	450 - 500	500 - 550	550 - 600	600 - 650	650 - 700	700 - 750	750 - 800	800 - 850	850 - 900	900 - 950	950 - 1000	1000 and over
<b>Clerks, Order</b>																										
Level I .....	83	40.0	\$374	\$382	\$298 - \$409	-	-	4	1	20	2	12	20	29	6	1	4	-	-	-	-	-	-	-	-	-
Private industry .....	83	40.0	374	382	298 - 409	-	-	4	1	20	2	12	20	29	6	1	4	-	-	-	-	-	-	-	-	-
Goods-producing industries .....	76	40.0	368	-	- - -	-	-	3	1	21	1	13	22	32	5	1	-	-	-	-	-	-	-	-	-	-
Manufacturing .....	76	40.0	368	-	- - -	-	-	3	1	21	1	13	22	32	5	1	-	-	-	-	-	-	-	-	-	-
<b>Key Entry Operators</b>																										
Level I .....	337	39.9	353	310	280 - 378	-	( <sup>3</sup> )	3	12	28	17	8	11	7	3	-	1	11	-	-	-	-	-	-	-	-
Private industry .....	311	39.9	354	306	280 - 381	-	( <sup>3</sup> )	3	12	30	16	7	10	6	3	-	1	12	-	-	-	-	-	-	-	-
Service-producing industries .....	281	39.9	353	300	280 - 364	-	( <sup>3</sup> )	3	12	33	17	7	7	3	3	-	1	13	-	-	-	-	-	-	-	-
Transportation and utilities .....	60	40.0	511	621	416 - 621	-	-	3	20	-	-	-	-	8	5	-	3	60	-	-	-	-	-	-	-	-
State and local government .....	26	40.0	338	338	304 - 364	-	-	-	4	12	23	23	27	12	-	-	-	-	-	-	-	-	-	-	-	-
Level II .....	303	40.0	361	346	308 - 399	-	-	-	( <sup>3</sup> )	17	17	17	25	17	4	1	1	-	1	-	-	-	-	-	-	-
Private industry .....	242	40.0	358	344	308 - 389	-	-	-	-	21	18	14	25	15	4	1	1	-	2	-	-	-	-	-	-	-
Service-producing industries .....	219	40.0	356	342	304 - 388	-	-	-	-	23	16	14	26	15	2	1	1	-	2	-	-	-	-	-	-	-
State and local government .....	61	40.0	371	364	330 - 414	-	-	-	2	2	16	26	25	23	5	2	-	-	-	-	-	-	-	-	-	-
<b>Personnel Assistants (Employment)</b>																										
Level II .....	71	39.9	411	-	- - -	-	-	-	-	1	8	8	28	23	17	14	-	-	-	-	-	-	-	-	-	-
Private industry .....	55	39.8	395	-	- - -	-	-	-	-	2	11	11	36	20	11	9	-	-	-	-	-	-	-	-	-	-
Level III .....	54	40.0	504	-	- - -	-	-	-	-	6	4	2	17	20	24	13	2	6	7	-	-	-	-	-	-	-
Private industry .....	53	40.0	505	-	- - -	-	-	-	-	6	4	2	15	21	25	13	2	6	8	-	-	-	-	-	-	-
<b>Secretaries</b>																										
Level I .....	931	40.0	384	375	339 - 420	-	-	( <sup>3</sup> )	1	5	9	19	33	18	11	3	( <sup>3</sup> )	1	( <sup>3</sup> )	-	-	-	-	-	-	-
Private industry .....	725	40.0	374	365	333 - 402	-	-	( <sup>3</sup> )	1	6	11	23	32	16	7	2	1	1	1	-	-	-	-	-	-	-
Goods-producing industries .....	150	40.0	397	386	352 - 432	-	-	-	-	3	7	15	35	22	13	5	1	-	-	-	-	-	-	-	-	-
Manufacturing .....	150	40.0	397	386	352 - 432	-	-	-	-	3	7	15	35	22	13	5	1	-	-	-	-	-	-	-	-	-
Service-producing industries .....	575	40.0	368	354	329 - 393	-	-	( <sup>3</sup> )	1	7	12	25	31	14	6	1	( <sup>3</sup> )	1	1	-	-	-	-	-	-	-
State and local government .....	206	39.8	420	418	383 - 451	-	-	-	-	2	1	2	36	27	23	8	-	-	-	-	-	-	-	-	-	-
Level II .....	1,959	39.9	448	442	396 - 494	-	-	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	2	5	19	27	23	13	5	4	1	( <sup>3</sup> )	-	-	-	-	-	-
Private industry .....	1,619	40.0	446	440	393 - 487	-	-	( <sup>3</sup> )	1	1	3	5	19	27	23	11	4	5	2	( <sup>3</sup> )	-	-	-	-	-	-
Goods-producing industries .....	442	40.0	477	473	434 - 516	-	-	-	-	-	1	1	12	23	29	21	8	6	( <sup>3</sup> )	-	-	-	-	-	-	-
Manufacturing .....	442	40.0	477	473	434 - 516	-	-	-	-	1	1	12	23	29	21	8	6	( <sup>3</sup> )	-	-	-	-	-	-	-	-
Service-producing industries .....	1,177	40.0	435	424	384 - 470	-	-	( <sup>3</sup> )	1	1	4	7	22	29	21	8	2	4	2	( <sup>3</sup> )	-	-	-	-	-	-
State and local government .....	340	39.8	459	455	415 - 504	-	-	-	-	-	3	17	27	22	21	9	-	-	-	-	-	-	-	-	-	-
Level III .....	1,800	40.0	515	509	458 - 567	-	-	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	2	6	13	23	24	17	7	5	2	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-
Private industry .....	1,646	40.0	515	509	458 - 573	-	-	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	2	7	13	23	24	16	8	5	2	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-
Goods-producing industries .....	789	40.0	548	546	498 - 592	-	-	( <sup>3</sup> )	-	( <sup>3</sup> )	2	1	5	18	27	25	11	8	3	( <sup>3</sup> )	-	-	-	-	-	-
Manufacturing .....	789	40.0	548	546	498 - 592	-	-	( <sup>3</sup> )	-	( <sup>3</sup> )	2	1	5	18	27	25	11	8	3	( <sup>3</sup> )	-	-	-	-	-	-
Service-producing industries .....	857	40.0	485	479	429 - 524	-	-	-	1	( <sup>3</sup> )	( <sup>3</sup> )	2	12	21	27	21	8	4	3	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-
Transportation and utilities .....	84	40.0	561	586	413 - 694	-	-	-	6	-	-	1	17	13	5	2	7	7	20	17	2	-	-	-	-	-
State and local government .....	154	40.0	508	507	458 - 551	-	-	-	-	-	-	3	14	29	25	21	6	1	1	-	-	-	-	-	-	-

See footnotes at end of table.

**Table A-8. Establishments employing 500 workers or more: Weekly hours and pay of clerical occupations, St. Louis, MO-IL, March 1995 — Continued**

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>			Percent of workers receiving straight-time weekly pay (in dollars) of—																				
			Mean	Median	Middle range	Under 200	200 - 225	225 - 250	250 - 275	275 - 300	300 - 325	325 - 350	350 - 400	400 - 450	450 - 500	500 - 550	550 - 600	600 - 650	650 - 700	700 - 750	750 - 800	800 - 850	850 - 900	900 - 950	950 - 1000	1000 and over
Level IV .....	501	39.9	\$585	\$597	\$516 - \$654	-	-	-	-	( <sup>3</sup> )	1	-	4	7	9	13	17	22	18	5	2	1	( <sup>3</sup> )	-	( <sup>3</sup> )	( <sup>3</sup> )
Private industry .....	437	39.9	586	598	516 - 659	-	-	-	-	( <sup>3</sup> )	1	-	3	8	9	13	16	21	19	5	3	1	( <sup>3</sup> )	-	( <sup>3</sup> )	( <sup>3</sup> )
Goods-producing industries .....	209	39.9	600	619	532 - 670	-	-	-	-	-	-	-	2	10	6	11	15	19	25	6	4	2	-	-	-	-
Manufacturing .....	208	39.9	600	619	531 - 670	-	-	-	-	-	-	-	2	10	6	11	15	19	25	6	4	2	-	-	-	-
Service-producing industries .....	228	40.0	574	587	504 - 643	-	-	-	-	( <sup>3</sup> )	1	-	4	6	11	15	18	23	14	4	1	( <sup>3</sup> )	1	-	( <sup>3</sup> )	( <sup>3</sup> )
Transportation and utilities .....	50	40.0	561	558	408 - 665	-	-	-	-	2	6	-	10	22	8	-	4	16	12	10	-	2	4	-	2	2
State and local government .....	64	39.7	575	588	504 - 638	-	-	-	-	-	-	-	9	3	9	14	19	30	6	8	-	2	-	-	-	-
Level V .....	140	39.9	743	741	674 - 841	-	-	-	-	-	-	-	2	-	2	4	3	8	17	16	15	14	11	6	1	2
Private industry .....	140	39.9	743	741	674 - 841	-	-	-	-	-	-	-	2	-	2	4	3	8	17	16	15	14	11	6	1	2
Goods-producing industries .....	67	39.9	748	-	-	-	-	-	-	-	-	-	-	-	3	6	-	4	10	21	19	21	13	1	-	-
Manufacturing .....	67	39.9	748	-	-	-	-	-	-	-	-	-	-	-	3	6	-	4	10	21	19	21	13	1	-	-
Service-producing industries .....	73	39.9	739	-	-	-	-	-	-	-	-	-	4	-	1	1	5	11	23	11	11	7	8	10	3	4
<b>Switchboard Operator-Receptionists</b> .....	84	39.8	348	319	271 - 408	-	-	18	8	5	20	11	12	12	6	7	1	-	-	-	-	-	-	-	-	-
Private industry .....	68	39.9	337	-	-	-	-	22	4	6	25	9	13	10	4	4	1	-	-	-	-	-	-	-	-	-
<b>Word Processors</b>																										
Level I .....	50	40.0	363	-	-	-	-	-	2	8	28	24	10	12	16	-	-	-	-	-	-	-	-	-	-	-
Level II .....	136	40.0	415	436	379 - 436	-	-	-	1	-	4	11	15	53	13	4	-	-	-	-	-	-	-	-	-	-
Private industry .....	85	40.0	401	404	350 - 445	-	-	-	1	-	7	18	24	27	18	6	-	-	-	-	-	-	-	-	-	-
Service-producing industries .....	60	39.9	384	-	-	-	-	-	-	-	10	25	28	22	13	2	-	-	-	-	-	-	-	-	-	-
State and local government .....	51	40.0	437	436	436 - 436	-	-	-	-	-	-	-	-	96	4	-	-	-	-	-	-	-	-	-	-	-

<sup>1</sup> Standard hours reflect the workweek for which employees receive their regular straight-time salaries (exclusive of pay for overtime at regular and/or premium rates), and the earnings correspond to these weekly hours.

<sup>2</sup> Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. Also excluded are performance bonuses and lump-sum payments of the type negotiated in the auto and aerospace industries, as well as profit-sharing payments, attendance bonuses, Christmas or year-end bonuses, and other nonproduction bonuses. Pay increases, but not bonuses, under cost-of-living clauses, and incentive payments, however, are included. See Appendix A for definitions and methods used to

compute means, medians, and middle ranges.

<sup>3</sup> Less than 0.5 percent.

NOTE: Because of rounding, sums of individual intervals may not equal 100 percent. Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupation or occupational levels may include data for categories not shown separately.

**Table A-9. Establishments employing 500 workers or more: Hourly pay of maintenance and toolroom occupations, St. Louis, MO-IL, March 1995**

Occupation and level	Number of workers	Hourly pay (in dollars) <sup>1</sup>			Percent of workers receiving straight-time hourly pay (in dollars) of—																								
		Mean	Median	Middle range	6.00 and under 6.50	6.50 - 7.00	7.00 - 7.50	7.50 - 8.00	8.00 - 8.50	8.50 - 9.00	9.00 - 9.50	9.50 - 10.00	10.00 - 10.50	10.50 - 11.00	11.00 - 11.50	11.50 - 12.00	12.00 - 12.50	12.50 - 13.00	13.00 - 14.00	14.00 - 15.00	15.00 - 16.00	16.00 - 17.00	17.00 - 18.00	18.00 - 20.00	20.00 - 22.00	22.00 - 24.00	24.00 - 26.00		
<b>General Maintenance Workers</b> .....	563	\$11.06	\$10.65	\$9.10 - \$12.63	1	4	1	1	8	6	8	9	7	12	9	5	4	3	4	9	3	4	3	( <sup>2</sup> )	-	-	-	-	
Private industry .....	290	10.86	10.58	8.50 - 12.80	1	6	2	3	12	6	7	7	5	8	9	6	3	2	7	8	3	( <sup>2</sup> )	5	1	-	-	-	-	
Service-producing industries .....	263	10.37	10.28	8.36 - 11.94	2	6	2	3	13	6	8	7	6	8	8	6	3	2	8	8	3	( <sup>2</sup> )	-	-	-	-	-	-	
State and local government .....	273	11.27	10.70	9.58 - 12.44	-	1	-	-	4	7	10	11	8	16	10	4	4	3	1	10	3	8	-	-	-	-	-	-	
<b>Maintenance Electricians</b> .....	1,348	19.61	21.04	18.64 - 21.55	-	-	-	-	-	( <sup>2</sup> )	-	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1	( <sup>2</sup> )	1	2	2	12	4	1	13	63	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )		
Private industry .....	1,213	20.03	21.32	19.20 - 21.55	-	-	-	-	-	-	-	-	( <sup>2</sup> )	-	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2	2	11	2	1	15	68	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )		
Goods-producing industries .....	1,148	20.24	21.32	19.97 - 21.55	-	-	-	-	-	-	-	-	-	-	-	( <sup>2</sup> )	( <sup>2</sup> )	1	1	10	( <sup>2</sup> )	1	15	72	-	-	-	-	
Manufacturing .....	1,148	20.24	21.32	19.97 - 21.55	-	-	-	-	-	-	-	-	-	-	-	( <sup>2</sup> )	( <sup>2</sup> )	1	1	10	( <sup>2</sup> )	1	15	72	-	-	-	-	
Service-producing industries .....	65	16.23	-	-	-	-	-	-	-	-	-	-	2	2	-	3	14	11	20	23	2	14	8	2	2	-	-	-	
State and local government .....	135	15.87	15.78	14.62 - 16.33	-	-	-	-	-	1	-	1	2	1	5	1	7	7	4	30	24	6	-	10	2	-	-		
<b>Maintenance Electronics Technicians</b>																													
Level II .....	711	17.49	18.99	15.62 - 20.01	-	-	-	-	-	3	-	1	3	( <sup>2</sup> )	3	1	2	7	3	4	2	5	39	25	1	-	-		
Private industry .....	658	17.56	18.99	15.80 - 20.01	-	-	-	-	-	3	-	1	3	( <sup>2</sup> )	4	( <sup>2</sup> )	2	7	3	3	2	2	42	27	1	-	-		
Service-producing industries .....	633	17.58	18.99	15.80 - 20.01	-	-	-	-	-	3	-	( <sup>2</sup> )	3	( <sup>2</sup> )	4	( <sup>2</sup> )	1	7	3	3	2	2	43	28	-	-	-		
Transportation and utilities .....	545	18.05	18.99	18.99 - 20.01	-	-	-	-	-	4	-	( <sup>2</sup> )	4	-	3	-	6	-	1	1	1	1	49	32	-	-	-		
State and local government .....	53	16.66	17.96	14.81 - 17.96	-	-	-	-	-	-	-	4	-	-	-	4	8	4	8	11	4	45	2	11	-	-	-		
Level III .....	80	18.91	19.55	18.27 - 20.32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	7	6	5	29	45	2	-	-		
Private industry .....	77	18.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	8	6	5	29	47	-	-	-		
<b>Maintenance Machinists</b> .....	648	19.28	20.59	17.18 - 20.75	-	-	-	-	-	-	-	-	( <sup>2</sup> )	1	-	-	-	( <sup>2</sup> )	4	1	( <sup>2</sup> )	23	18	53	-	( <sup>2</sup> )	-		
Private industry .....	636	19.33	20.59	17.18 - 20.75	-	-	-	-	-	-	-	-	-	1	-	-	-	( <sup>2</sup> )	3	1	-	23	18	53	-	-	-		
Goods-producing industries .....	629	19.34	20.59	17.18 - 20.75	-	-	-	-	-	-	-	-	-	1	-	-	-	-	3	( <sup>2</sup> )	-	23	18	54	-	-	-		
Manufacturing .....	629	19.34	20.59	17.18 - 20.75	-	-	-	-	-	-	-	-	-	1	-	-	-	-	3	( <sup>2</sup> )	-	23	18	54	-	-	-		
<b>Maintenance Mechanics, Machinery</b> .....	637	16.38	15.45	15.00 - 17.62	-	-	-	-	-	-	-	1	-	1	1	2	2	3	14	31	9	13	3	21	-	-	-		
Private industry .....	496	16.91	16.08	15.06 - 20.16	-	-	-	-	-	-	-	1	-	-	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2	13	32	4	17	3	27	-	-	-		
Goods-producing industries .....	461	16.87	15.90	15.06 - 20.16	-	-	-	-	-	-	-	-	1	-	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2	14	34	2	18	( <sup>2</sup> )	28	-	-	-		
Manufacturing .....	461	16.87	15.90	15.06 - 20.16	-	-	-	-	-	-	-	1	-	-	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2	14	34	2	18	( <sup>2</sup> )	28	-	-	-		
State and local government .....	141	14.53	15.00	13.12 - 16.39	-	-	-	-	-	-	-	-	-	5	2	7	9	8	16	26	28	-	-	-	-	-	-		
<b>Maintenance Mechanics, Motor Vehicle</b> .....	681	16.51	16.33	14.93 - 18.70	-	-	-	-	-	-	( <sup>2</sup> )	2	1	1	1	( <sup>2</sup> )	1	6	27	6	8	9	28	8	-	-	-		
Private industry .....	359	18.16	18.70	17.71 - 19.55	-	-	-	-	-	-	-	2	2	1	1	1	1	2	( <sup>2</sup> )	1	6	15	53	16	-	-	-		
Goods-producing industries .....	138	19.44	19.69	18.06 - 21.28	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	18	38	41	-	-	-		
Manufacturing .....	138	19.44	19.69	18.06 - 21.28	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	18	38	41	-	-	-		
Service-producing industries .....	221	17.35	18.70	16.86 - 18.70	-	-	-	-	-	-	-	3	3	2	2	1	1	1	( <sup>2</sup> )	2	9	13	62	-	-	-	-		
Transportation and utilities .....	202	17.48	18.70	17.71 - 18.70	-	-	-	-	-	-	-	3	3	2	2	1	1	1	-	1	3	14	68	-	-	-	-		
State and local government .....	322	14.67	14.93	14.62 - 14.93	-	-	-	-	-	-	1	3	( <sup>2</sup> )	1	2	-	2	10	57	12	10	2	-	-	-	-	-		
<b>Maintenance Pipefitters</b> .....	508	19.64	19.97	18.74 - 20.96	-	-	-	-	-	-	-	-	-	-	-	-	-	( <sup>2</sup> )	3	-	-	16	47	35	( <sup>2</sup> )	-	-		
Private industry .....	495	19.60	19.97	18.74 - 20.96	-	-	-	-	-	-	-	-	-	-	-	-	-	( <sup>2</sup> )	3	-	-	16	48	33	-	-	-		
Goods-producing industries .....	494	19.61	19.97	18.74 - 20.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	16	48	33	-	-	-		
Manufacturing .....	494	19.61	19.97	18.74 - 20.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	16	48	33	-	-	-		

<sup>1</sup> Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. Also excluded are performance bonuses and lump-sum payments of the type negotiated in the auto and aerospace industries, as well as profit-sharing payments, attendance bonuses, Christmas or year-end bonuses, and other nonproduction bonuses. Pay increases, but not bonuses, under cost-of-living clauses, and incentive payments, however, are included. See Appendix A for definitions and methods used to compute means, medians, and middle ranges.

<sup>2</sup> Less than 0.5 percent.

NOTE: Because of rounding, sums of individual intervals may not equal 100 percent. Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupation or occupational levels may include data for categories not shown separately.

**Table A-10. Establishments employing 500 workers or more: Hourly pay of material movement and custodial occupations, St. Louis, MO-IL, March 1995**

Occupation and level	Number of workers	Hourly pay (in dollars) <sup>1</sup>			Percent of workers receiving straight-time hourly pay (in dollars) of—																						
		Mean	Median	Middle range	4.25 and under 4.50	4.50-5.00	5.00-5.50	5.50-6.00	6.00-6.50	6.50-7.00	7.00-7.50	7.50-8.00	8.00-8.50	8.50-9.00	9.00-10.00	10.00-11.00	11.00-12.00	12.00-13.00	13.00-14.00	14.00-15.00	15.00-16.00	16.00-17.00	17.00-18.00	18.00-19.00	19.00-20.00	20.00-21.00	21.00 and over
<b>Forklift Operators</b> .....	879	\$16.16	\$16.74	\$13.59 - \$19.89	-	-	-	-	-	-	-	-	-	-	1	9	7	-	23	3	3	17	4	( <sup>2</sup> )	30	4	( <sup>2</sup> )
Private industry .....	875	16.18	16.74	13.59 - 19.89	-	-	-	-	-	-	-	-	-	-	1	9	7	-	23	3	3	17	4	( <sup>2</sup> )	30	4	( <sup>2</sup> )
Goods-producing industries .....	724	16.07	14.96	13.59 - 19.89	-	-	-	-	-	-	-	-	-	-	1	11	8	-	27	3	3	-	5	( <sup>2</sup> )	36	5	( <sup>2</sup> )
Manufacturing .....	688	15.82	14.08	13.59 - 19.89	-	-	-	-	-	-	-	-	-	-	1	11	9	-	29	3	4	-	6	( <sup>2</sup> )	38	-	( <sup>2</sup> )
<b>Guards</b>																											
Level I .....	1,705	7.47	7.00	5.56 - 8.82	2	5	15	9	13	5	9	7	7	6	7	6	2	5	3	-	-	( <sup>2</sup> )	-	-	-	-	-
Private industry .....	1,505	7.14	6.56	5.50 - 8.05	3	5	17	10	14	6	10	8	6	3	5	5	1	3	3	-	-	( <sup>2</sup> )	-	-	-	-	-
Goods-producing industries .....	88	11.60	13.47	9.23 - 13.69	-	-	-	-	-	3	5	3	6	2	19	2	2	-	56	-	-	1	-	-	-	-	-
Manufacturing .....	88	11.60	13.47	9.23 - 13.69	-	-	-	-	-	3	5	3	6	2	19	2	2	-	56	-	-	1	-	-	-	-	-
Service-producing industries .....	1,417	6.87	6.40	5.30 - 7.75	3	5	18	11	15	6	11	8	6	3	4	5	1	3	( <sup>2</sup> )	-	-	-	-	-	-	-	-
State and local government .....	200	9.90	9.33	8.61 - 11.69	-	-	-	( <sup>2</sup> )	2	-	( <sup>2</sup> )	1	10	25	19	14	4	19	3	-	-	-	-	-	-	-	-
Level II .....	521	14.42	16.63	11.54 - 16.83	-	-	-	-	-	-	-	1	5	3	9	5	5	3	8	3	4	40	14	2	-	-	-
Private industry .....	501	14.52	16.83	11.73 - 16.83	-	-	-	-	-	-	-	1	6	3	9	4	4	2	8	2	4	42	14	2	-	-	-
Service-producing industries .....	137	9.82	9.90	8.56 - 10.83	-	-	-	-	-	-	-	2	20	10	30	15	16	4	1	-	-	-	-	-	-	-	-
<b>Janitors</b> .....	7,394	7.07	6.00	5.00 - 8.47	3	19	18	8	7	6	5	4	4	4	7	6	3	1	1	1	1	2	1	( <sup>2</sup> )	-	-	-
Private industry .....	5,618	6.32	5.29	4.85 - 6.73	4	25	24	11	7	7	5	3	3	2	1	1	1	( <sup>2</sup> )	1	( <sup>2</sup> )	1	2	1	( <sup>2</sup> )	-	-	-
Goods-producing industries .....	418	13.40	13.28	10.82 - 16.61	-	-	1	-	( <sup>2</sup> )	1	3	1	2	5	7	9	10	6	8	4	4	27	9	4	-	-	-
Manufacturing .....	417	13.42	13.28	10.85 - 16.61	-	-	1	-	( <sup>2</sup> )	1	3	1	2	5	7	9	10	6	8	4	4	27	9	4	-	-	
Service-producing industries .....	5,200	5.75	5.25	4.75 - 6.28	5	27	26	11	8	7	6	3	3	2	1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1	-	-	-	-	-	-	-
Transportation and utilities .....	97	11.89	11.69	9.35 - 15.25	-	-	12	4	-	-	-	-	-	-	14	5	14	-	3	1	45	-	-	-	-	-	-
State and local government .....	1,776	9.46	9.72	8.02 - 10.89	-	-	-	1	6	4	6	7	6	10	23	20	10	1	3	2	( <sup>2</sup> )	-	-	-	-	-	-
<b>Material Handling Laborers</b> .....	763	16.60	16.64	14.50 - 19.41	-	-	-	-	( <sup>2</sup> )	-	-	1	( <sup>2</sup> )	4	1	5	( <sup>2</sup> )	11	1	3	-	27	-	9	35	-	3
Private industry .....	737	16.69	16.64	16.64 - 19.41	-	-	-	-	( <sup>2</sup> )	-	-	1	( <sup>2</sup> )	4	1	6	( <sup>2</sup> )	11	( <sup>2</sup> )	3	-	28	-	10	36	-	3
Goods-producing industries .....	502	17.11	19.41	12.49 - 19.41	-	-	-	-	-	-	-	-	-	5	-	7	-	16	-	( <sup>2</sup> )	-	-	-	14	54	-	4
Manufacturing .....	502	17.11	19.41	12.49 - 19.41	-	-	-	-	-	-	-	-	-	5	-	7	-	16	-	( <sup>2</sup> )	-	-	-	14	54	-	4
<b>Order Fillers</b> .....	564	8.23	7.00	6.00 - 10.19	-	-	-	13	24	12	3	4	5	3	2	24	1	( <sup>2</sup> )	( <sup>2</sup> )	9	-	-	-	-	-	-	-
Private industry .....	564	8.23	7.00	6.00 - 10.19	-	-	-	13	24	12	3	4	5	3	2	24	1	( <sup>2</sup> )	( <sup>2</sup> )	9	-	-	-	-	-	-	-
Goods-producing industries .....	230	10.73	10.19	10.19 - 10.63	-	-	-	-	3	-	2	6	( <sup>2</sup> )	4	60	3	-	21	-	-	-	-	-	-	-	-	
Manufacturing .....	230	10.73	10.19	10.19 - 10.63	-	-	-	-	3	-	2	6	( <sup>2</sup> )	4	60	3	-	21	-	-	-	-	-	-	-	-	
<b>Shipping/Receiving Clerks</b> .....	576	12.83	12.75	9.45 - 16.67	-	-	-	1	1	2	4	1	3	4	16	11	2	12	13	2	2	6	10	10	1	-	1
Private industry .....	567	12.84	12.75	9.45 - 16.67	-	-	-	1	1	2	4	1	3	4	16	10	2	11	14	2	2	6	10	10	1	-	1
Goods-producing industries .....	347	14.22	13.66	10.72 - 17.78	-	-	-	-	-	-	-	-	2	2	13	13	2	3	22	3	2	2	16	17	1	-	1
Manufacturing .....	347	14.22	13.66	10.72 - 17.78	-	-	-	-	-	-	-	-	2	2	13	13	2	3	22	3	2	2	16	17	1	-	1
Service-producing industries .....	220	10.67	9.66	8.33 - 12.75	-	-	-	2	2	5	10	3	4	7	22	5	3	24	-	-	2	12	-	-	-	-	-
<b>Truckdrivers</b>																											
Light Truck .....	89	11.26	9.70	7.62 - 14.47	-	-	2	-	-	7	7	13	2	10	13	4	-	6	-	21	-	-	-	13	-	-	-
Private industry .....	71	11.77	-	-	-	-	3	-	-	8	7	6	3	8	17	3	-	1	-	27	-	-	-	17	-	-	-
Medium Truck:																											
Private industry:																											
Goods-producing industries .....	72	16.52	-	-	-	-	-	-	-	-	-	-	-	-	6	6	15	-	21	1	-	-	-	51	-	-	
Manufacturing .....	72	16.52	-	-	-	-	-	-	-	-	-	-	-	-	6	6	15	-	21	1	-	-	-	51	-	-	
Heavy Truck .....	545	13.06	11.95	10.36 - 16.55	-	-	-	-	-	-	-	-	3	3	14	12	19	6	4	1	3	21	16	-	-	-	
State and local government .....	168	12.17	11.60	11.07 - 12.98	-	-	-	-	-	-	-	-	-	-	-	13	43	19	14	2	9	-	-	-	-	-	

See footnotes at end of table.

**Table A-10. Establishments employing 500 workers or more: Hourly pay of material movement and custodial occupations, St. Louis, MO-IL, March 1995 — Continued**

Occupation and level	Number of workers	Hourly pay (in dollars) <sup>1</sup>			Percent of workers receiving straight-time hourly pay (in dollars) of—																					
		Mean	Median	Middle range	4.25 and under 4.50	4.50 - 5.00	5.00 - 5.50	5.50 - 6.00	6.00 - 6.50	6.50 - 7.00	7.00 - 7.50	7.50 - 8.00	8.00 - 8.50	8.50 - 9.00	9.00 - 10.00	10.00 - 11.00	11.00 - 12.00	12.00 - 13.00	13.00 - 14.00	14.00 - 15.00	15.00 - 16.00	16.00 - 17.00	17.00 - 18.00	18.00 - 19.00	19.00 - 20.00	20.00 - 21.00
Tractor Trailer .....	518	\$18.06	\$18.89	\$17.31 - \$19.36	-	-	-	-	-	-	-	-	-	-	-	-	( <sup>2</sup> )	1	2	13	8	18	25	23	10	-
Private industry .....	518	18.06	18.89	17.31 - 19.36	-	-	-	-	-	-	-	-	-	-	-	-	( <sup>2</sup> )	1	2	13	8	18	25	23	10	-
Goods-producing industries .....	179	17.25	16.80	15.38 - 20.19	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	36	22	-	8	-	30	-
Manufacturing .....	167	17.16	16.80	15.38 - 20.19	-	-	-	-	-	-	-	-	-	-	-	-	1	4	-	38	24	-	1	-	32	-
<b>Warehouse Specialists</b> .....	758	14.04	14.75	11.45 - 16.82	-	-	-	( <sup>2</sup> )	( <sup>2</sup> )	1	3	5	1	3	10	9	11	3	6	( <sup>2</sup> )	27	18	2	1	-	-
Private industry .....	698	14.32	16.40	11.50 - 16.90	-	-	-	( <sup>2</sup> )	( <sup>2</sup> )	1	2	5	( <sup>2</sup> )	3	6	9	11	3	6	( <sup>2</sup> )	29	20	2	1	-	-
Goods-producing industries .....	296	11.77	11.45	10.21 - 12.56	-	-	-	-	1	-	4	12	1	5	13	21	25	6	3	-	-	-	5	3	-	-
Manufacturing .....	296	11.77	11.45	10.21 - 12.56	-	-	-	-	1	-	4	12	1	5	13	21	25	6	3	-	-	-	5	3	-	-
Service-producing industries .....	402	16.21	16.82	16.40 - 17.31	-	-	-	( <sup>2</sup> )	-	1	( <sup>2</sup> )	-	-	1	1	1	1	1	7	( <sup>2</sup> )	50	35	-	-	-	-
State and local government .....	60	10.73	10.53	10.34 - 11.53	-	-	-	-	-	2	12	-	7	3	50	8	3	8	5	2	-	-	-	-	-	-

<sup>1</sup> Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. Also excluded are performance bonuses and lump-sum payments of the type negotiated in the auto and aerospace industries, as well as profit-sharing payments, attendance bonuses, Christmas or year-end bonuses, and other nonproduction bonuses. Pay increases, but not bonuses, under cost-of-living clauses, and incentive payments, however, are included. See Appendix A for definitions and methods used to compute means, medians, and middle ranges.

<sup>2</sup> Less than 0.5 percent.

NOTE: Because of rounding, sums of individual intervals may not equal 100 percent. Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupation or occupational levels may include data for categories not shown separately.

**Table A-11. Health services: Weekly hours and pay of professional, administrative, technical, protective service, and clerical occupations, St. Louis, MO-IL, March 1995**

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>			Percent of workers receiving straight-time weekly pay (in dollars) of—																					
			Mean	Median	Middle range	Under 200	200 - 225	225 - 250	250 - 300	300 - 350	350 - 400	400 - 450	450 - 500	500 - 550	550 - 600	600 - 650	650 - 700	700 - 800	800 - 900	900 - 1000	1000 - 1100	1100 - 1200	1200 - 1300	1300 - 1400	1400 - 1500	1500 and over	
<b>PROFESSIONAL OCCUPATIONS</b>																											
<b>Accountants</b>																											
Level I .....	14	38.8	\$498	-	- - -	-	-	-	-	-	14	36	29	14	7	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	14	38.8	498	-	- - -	-	-	-	-	-	14	36	29	14	7	-	-	-	-	-	-	-	-	-	-	-	
Hospitals .....	7	40.0	492	-	- - -	-	-	-	-	-	29	29	14	14	14	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	7	40.0	492	-	- - -	-	-	-	-	-	29	29	14	14	14	-	-	-	-	-	-	-	-	-	-	-	
Level II .....	65	39.7	568	\$558	\$505 - \$630	-	-	-	-	-	5	12	23	25	18	11	6	-	-	-	-	-	-	-	-	-	
Private industry .....	65	39.7	568	558	505 - 630	-	-	-	-	-	5	12	23	25	18	11	6	-	-	-	-	-	-	-	-	-	
Hospitals .....	45	40.0	575	558	504 - 635	-	-	-	-	-	7	16	9	33	16	13	7	-	-	-	-	-	-	-	-	-	
Private industry .....	45	40.0	575	558	504 - 635	-	-	-	-	-	7	16	9	33	16	13	7	-	-	-	-	-	-	-	-	-	
Level III .....	68	39.8	748	725	683 - 824	-	-	-	-	-	-	-	3	4	6	26	31	12	18	-	-	-	-	-	-	-	
Private industry .....	67	39.8	751	726	683 - 827	-	-	-	-	-	-	-	1	4	6	27	31	12	18	-	-	-	-	-	-	-	
Hospitals .....	34	40.0	736	708	666 - 812	-	-	-	-	-	-	-	6	3	9	21	32	21	9	-	-	-	-	-	-	-	
Private industry .....	33	40.0	742	708	673 - 812	-	-	-	-	-	-	-	3	3	9	21	33	21	9	-	-	-	-	-	-	-	
Level IV .....	38	39.8	981	990	914 - 1,014	-	-	-	-	-	-	-	-	-	-	-	16	8	29	32	13	3	-	-	-	-	
Private industry .....	38	39.8	981	990	914 - 1,014	-	-	-	-	-	-	-	-	-	-	-	16	8	29	32	13	3	-	-	-	-	
Hospitals .....	34	40.0	999	1,006	962 - 1,077	-	-	-	-	-	-	-	-	-	-	-	9	9	29	35	15	3	-	-	-	-	
Private industry .....	34	40.0	999	1,006	962 - 1,077	-	-	-	-	-	-	-	-	-	-	-	9	9	29	35	15	3	-	-	-	-	
<b>Registered Nurses</b>																											
Level II .....	7,990	39.8	662	657	564 - 755	-	-	-	-	-	1	7	13	12	15	13	23	15	( <sup>3</sup> )	-	-	-	-	-	-	-	-
Private industry .....	7,907	39.8	662	658	563 - 756	-	-	-	-	-	1	7	13	12	14	13	23	15	( <sup>3</sup> )	-	-	-	-	-	-	-	-
Hospitals .....	7,208	39.8	668	670	561 - 765	-	-	-	-	-	( <sup>3</sup> )	8	14	11	12	13	25	17	( <sup>3</sup> )	-	-	-	-	-	-	-	-
Private industry .....	7,129	39.8	668	672	561 - 766	-	-	-	-	-	( <sup>3</sup> )	8	14	11	12	13	25	17	( <sup>3</sup> )	-	-	-	-	-	-	-	-
Level II specialists .....	571	40.0	725	750	662 - 780	-	-	-	-	-	-	-	2	10	8	15	47	17	( <sup>3</sup> )	-	-	-	-	-	-	-	-
Private industry .....	571	40.0	725	750	662 - 780	-	-	-	-	-	-	-	2	10	8	15	47	17	( <sup>3</sup> )	-	-	-	-	-	-	-	-
Hospitals .....	571	40.0	725	750	662 - 780	-	-	-	-	-	-	-	2	10	8	15	47	17	( <sup>3</sup> )	-	-	-	-	-	-	-	-
Private industry .....	571	40.0	725	750	662 - 780	-	-	-	-	-	-	-	2	10	8	15	47	17	( <sup>3</sup> )	-	-	-	-	-	-	-	-
Level III .....	200	40.0	874	852	805 - 936	-	-	-	-	-	-	-	-	-	( <sup>3</sup> )	4	16	48	17	7	4	2	-	-	-	-	
Private industry .....	199	40.0	874	852	803 - 936	-	-	-	-	-	-	-	-	-	1	5	17	48	17	7	4	3	-	-	-	-	
Hospitals .....	196	40.0	870	852	803 - 925	-	-	-	-	-	-	-	-	-	1	5	17	49	17	6	4	2	-	-	-	-	
Private industry .....	195	40.0	870	852	803 - 926	-	-	-	-	-	-	-	-	-	1	5	17	49	17	6	4	2	-	-	-	-	
Level III anesthetists .....	29	40.0	1,442	-	- - -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	34	34	21	-	
Private industry .....	27	40.0	1,431	-	- - -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	37	37	<sup>4</sup> 15	-	
Hospitals .....	29	40.0	1,442	-	- - -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	34	34	21	-	
Private industry .....	27	40.0	1,431	-	- - -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	37	37	<sup>4</sup> 15	-	

See footnotes at end of table.

Table A-11. Health services: Weekly hours and pay of professional, administrative, technical, protective service, and clerical occupations, St. Louis, MO-IL, March 1995 — Continued

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>			Percent of workers receiving straight-time weekly pay (in dollars) of—																					
			Mean	Median	Middle range	Under 200	200 - 225	225 - 250	250 - 300	300 - 350	350 - 400	400 - 450	450 - 500	500 - 550	550 - 600	600 - 650	650 - 700	700 - 800	800 - 900	900 - 1000	1000 - 1100	1100 - 1200	1200 - 1300	1300 - 1400	1400 - 1500	1500 and over	
<b>ADMINISTRATIVE OCCUPATIONS</b>																											
<b>Buyers/Contracting Specialists</b>																											
Level I .....	26	40.0	\$494	\$467	\$447 - \$551	-	-	-	-	-	4	23	35	4	19	15	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	26	40.0	494	467	447 - 551	-	-	-	-	-	4	23	35	4	19	15	-	-	-	-	-	-	-	-	-	-	-
Hospitals .....	26	40.0	494	467	447 - 551	-	-	-	-	-	4	23	35	4	19	15	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	26	40.0	494	467	447 - 551	-	-	-	-	-	4	23	35	4	19	15	-	-	-	-	-	-	-	-	-	-	-
Level II .....	7	39.6	691	-	- - -	-	-	-	-	-	-	14	-	14	-	14	-	29	29	-	-	-	-	-	-	-	-
Private industry .....	7	39.6	691	-	- - -	-	-	-	-	-	-	14	-	14	-	14	-	29	29	-	-	-	-	-	-	-	-
Hospitals .....	6	40.0	718	-	- - -	-	-	-	-	-	-	17	-	-	-	17	-	33	33	-	-	-	-	-	-	-	-
Private industry .....	6	40.0	718	-	- - -	-	-	-	-	-	-	17	-	-	-	17	-	33	33	-	-	-	-	-	-	-	-
<b>Computer Programmers</b>																											
Level II .....	16	39.8	596	583	543 - 616	-	-	-	-	-	-	6	6	13	31	25	-	19	-	-	-	-	-	-	-	-	-
Private industry .....	16	39.8	596	583	543 - 616	-	-	-	-	-	-	6	6	13	31	25	-	19	-	-	-	-	-	-	-	-	-
Hospitals .....	13	40.0	601	-	- - -	-	-	-	-	-	-	8	8	8	31	23	-	23	-	-	-	-	-	-	-	-	-
Private industry .....	13	40.0	601	-	- - -	-	-	-	-	-	-	8	8	8	31	23	-	23	-	-	-	-	-	-	-	-	-
<b>Computer Systems Analysts</b>																											
Level II .....	31	39.8	855	846	789 - 938	-	-	-	-	-	-	-	-	-	-	-	6	23	35	32	3	-	-	-	-	-	-
Private industry .....	31	39.8	855	846	789 - 938	-	-	-	-	-	-	-	-	-	-	-	6	23	35	32	3	-	-	-	-	-	-
Hospitals .....	28	40.0	853	843	774 - 953	-	-	-	-	-	-	-	-	-	-	-	7	25	32	32	4	-	-	-	-	-	-
Private industry .....	28	40.0	853	843	774 - 953	-	-	-	-	-	-	-	-	-	-	-	7	25	32	32	4	-	-	-	-	-	-
Level III .....	11	39.3	1,039	-	- - -	-	-	-	-	-	-	-	-	-	-	-	-	-	18	9	45	27	-	-	-	-	-
Private industry .....	11	39.3	1,039	-	- - -	-	-	-	-	-	-	-	-	-	-	-	-	-	18	9	45	27	-	-	-	-	-
<b>Personnel Specialists</b>																											
Level I .....	7	39.6	452	-	- - -	-	-	-	-	-	-	86	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	7	39.6	452	-	- - -	-	-	-	-	-	-	86	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-
Hospitals .....	6	40.0	454	-	- - -	-	-	-	-	-	-	83	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	6	40.0	454	-	- - -	-	-	-	-	-	-	83	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-
Level II .....	49	40.0	553	538	490 - 577	-	-	-	-	-	-	2	35	29	18	6	2	6	2	-	-	-	-	-	-	-	-
Private industry .....	48	40.0	555	538	490 - 577	-	-	-	-	-	-	2	33	29	19	6	2	6	2	-	-	-	-	-	-	-	-
Hospitals .....	29	40.0	576	565	499 - 593	-	-	-	-	-	-	3	24	17	31	7	3	10	3	-	-	-	-	-	-	-	-
Private industry .....	28	40.0	580	565	503 - 610	-	-	-	-	-	-	4	21	18	32	7	4	11	4	-	-	-	-	-	-	-	-
Level III .....	57	40.0	709	695	662 - 760	-	-	-	-	-	-	-	4	-	7	9	35	32	11	2	2	-	-	-	-	-	-
Private industry .....	56	40.0	710	695	664 - 760	-	-	-	-	-	-	-	4	-	7	7	36	32	11	2	2	-	-	-	-	-	-
Hospitals .....	46	40.0	709	712	655 - 760	-	-	-	-	-	-	-	4	-	9	11	22	39	13	2	-	-	-	-	-	-	-
Private industry .....	45	40.0	710	713	655 - 760	-	-	-	-	-	-	-	4	-	9	9	22	40	13	2	-	-	-	-	-	-	-
Level IV .....	29	39.5	924	915	848 - 985	-	-	-	-	-	-	-	-	-	-	-	7	-	7	24	41	3	17	-	-	-	-
Private industry .....	28	39.5	934	923	848 - 988	-	-	-	-	-	-	-	-	-	-	-	4	-	7	25	43	4	18	-	-	-	-
Hospitals .....	21	40.0	946	947	909 - 988	-	-	-	-	-	-	-	-	-	-	-	10	-	-	14	52	5	19	-	-	-	-
Private industry .....	20	40.0	961	949	910 - 1,000	-	-	-	-	-	-	-	-	-	-	-	5	-	-	15	55	5	20	-	-	-	-

See footnotes at end of table.

**Table A-11. Health services: Weekly hours and pay of professional, administrative, technical, protective service, and clerical occupations, St. Louis, MO-IL, March 1995 — Continued**

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>			Percent of workers receiving straight-time weekly pay (in dollars) of—																							
			Mean	Median	Middle range	Under 200	200 - 225	225 - 250	250 - 300	300 - 350	350 - 400	400 - 450	450 - 500	500 - 550	550 - 600	600 - 650	650 - 700	700 - 800	800 - 900	900 - 1000	1000 - 1100	1100 - 1200	1200 - 1300	1300 - 1400	1400 - 1500	1500 and over			
<b>TECHNICAL OCCUPATIONS</b>																													
<b>Computer Operators</b>																													
Level II .....	47	40.0	\$417	\$402	\$374 - \$456	-	-	-	6	9	28	30	15	4	4	4	-	-	-	-	-	-	-	-	-	-	-		
Private industry .....	47	40.0	417	402	374 - 456	-	-	-	6	9	28	30	15	4	4	4	-	-	-	-	-	-	-	-	-	-	-		
Hospitals .....	36	40.0	392	394	362 - 434	-	-	-	8	11	36	28	14	3	-	-	-	-	-	-	-	-	-	-	-	-	-		
Private industry .....	36	40.0	392	394	362 - 434	-	-	-	8	11	36	28	14	3	-	-	-	-	-	-	-	-	-	-	-	-	-		
Level III .....	13	39.6	534	-	- - -	-	-	-	-	-	-	-	31	38	15	-	15	-	-	-	-	-	-	-	-	-	-		
Private industry .....	13	39.6	534	-	- - -	-	-	-	-	-	-	-	31	38	15	-	15	-	-	-	-	-	-	-	-	-	-		
Hospitals .....	9	40.0	509	-	- - -	-	-	-	-	-	-	-	33	44	22	-	-	-	-	-	-	-	-	-	-	-	-		
Private industry .....	9	40.0	509	-	- - -	-	-	-	-	-	-	-	33	44	22	-	-	-	-	-	-	-	-	-	-	-	-		
<b>Licensed Practical Nurses</b>																													
Level II .....	2,841	40.0	475	480	434 - 520	-	-	-	2	8	21	36	29	4	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	2,764	40.0	475	480	434 - 520	-	-	-	2	7	21	37	28	5	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hospitals .....	1,011	40.0	478	493	428 - 529	-	-	-	3	12	17	23	37	9	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	987	40.0	479	496	432 - 531	-	-	-	3	11	16	23	38	9	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Nursing Assistants</b>																													
Level I .....	182	40.0	282	272	232 - 336	-	9	29	22	37	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Level II .....	7,079	40.0	271	250	230 - 300	1	21	27	26	13	6	3	3	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	6,683	40.0	261	246	229 - 287	1	22	29	28	14	5	1	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hospitals .....	1,584	40.0	298	288	259 - 334	( <sup>3</sup> )	3	12	42	27	13	1	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	1,576	40.0	298	288	259 - 335	( <sup>3</sup> )	3	12	43	27	13	1	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Level III .....	837	39.3	318	296	280 - 338	-	1	3	50	23	11	6	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	793	39.3	309	294	280 - 334	-	1	3	53	25	11	5	2	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>CLERICAL OCCUPATIONS</b>																													
<b>Clerks, Accounting</b>																													
Level I .....	10	40.0	267	-	- - -	-	-	-	30	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	10	40.0	267	-	- - -	-	-	-	30	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hospitals .....	8	40.0	273	-	- - -	-	-	-	25	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	8	40.0	273	-	- - -	-	-	-	25	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Level II .....	181	39.8	349	341	313 - 381	-	4	-	14	32	32	14	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	181	39.8	349	341	313 - 381	-	4	-	14	32	32	14	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hospitals .....	98	40.0	368	374	320 - 415	-	-	-	15	19	35	26	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	98	40.0	368	374	320 - 415	-	-	-	15	19	35	26	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Level III .....	57	40.0	414	400	367 - 446	-	-	-	5	44	32	11	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	55	40.0	415	410	367 - 446	-	-	-	5	42	33	11	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hospitals .....	46	40.0	424	431	371 - 447	-	-	-	7	30	39	13	4	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	44	40.0	427	435	374 - 450	-	-	-	7	27	41	14	5	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Level IV .....	10	40.0	511	-	- - -	-	-	-	-	-	20	30	30	-	10	10	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	10	40.0	511	-	- - -	-	-	-	-	-	20	30	30	-	10	10	-	-	-	-	-	-	-	-	-	-	-	-	
Hospitals .....	9	40.0	510	-	- - -	-	-	-	-	-	22	33	22	-	11	11	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	9	40.0	510	-	- - -	-	-	-	-	-	22	33	22	-	11	11	-	-	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

**Table A-11. Health services: Weekly hours and pay of professional, administrative, technical, protective service, and clerical occupations, St. Louis, MO-IL, March 1995 — Continued**

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>			Percent of workers receiving straight-time weekly pay (in dollars) of—																					
			Mean	Median	Middle range	Under 200	200 - 225	225 - 250	250 - 300	300 - 350	350 - 400	400 - 450	450 - 500	500 - 550	550 - 600	600 - 650	650 - 700	700 - 800	800 - 900	900 - 1000	1000 - 1100	1100 - 1200	1200 - 1300	1300 - 1400	1400 - 1500	1500 and over	
<b>Clerks, General</b>																											
Level I .....	38	40.0	\$280	\$277	\$237 - 316	5	13	11	32	32	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	38	40.0	280	277	237 - 316	5	13	11	32	32	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hospitals .....	38	40.0	280	277	237 - 316	5	13	11	32	32	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	38	40.0	280	277	237 - 316	5	13	11	32	32	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Level II .....	221	39.9	308	298	263 - 358	-	-	15	38	18	28	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	221	39.9	308	298	263 - 358	-	-	15	38	18	28	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hospitals .....	184	40.0	317	304	276 - 362	-	-	10	38	19	33	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	184	40.0	317	304	276 - 362	-	-	10	38	19	33	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Level III .....	127	40.0	324	327	288 - 371	-	-	9	31	26	34	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	127	40.0	324	327	288 - 371	-	-	9	31	26	34	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hospitals .....	78	40.0	326	325	286 - 369	-	-	-	36	24	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	78	40.0	326	325	286 - 369	-	-	-	36	24	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Level IV .....	14	40.0	420	-	- - -	-	-	-	-	14	36	21	7	21	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	14	40.0	420	-	- - -	-	-	-	-	14	36	21	7	21	-	-	-	-	-	-	-	-	-	-	-	-	-
Hospitals .....	14	40.0	420	-	- - -	-	-	-	-	14	36	21	7	21	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	14	40.0	420	-	- - -	-	-	-	-	14	36	21	7	21	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Key Entry Operators</b>																											
Level I .....	82	39.8	321	304	288 - 344	-	-	-	43	38	11	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	81	39.8	322	306	288 - 344	-	-	-	42	38	11	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hospitals .....	42	40.0	327	310	282 - 347	-	-	-	43	33	14	2	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	41	40.0	327	320	282 - 347	-	-	-	41	34	15	2	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Level II .....	33	40.0	362	350	314 - 412	-	-	-	24	24	24	18	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	32	40.0	363	332	302 - 412	-	-	-	25	25	22	19	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
Hospitals .....	27	40.0	375	389	314 - 412	-	-	-	19	19	30	22	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	26	40.0	376	394	314 - 412	-	-	-	19	19	27	23	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-
<b>Personnel Assistants (Employment)</b>																											
Level II .....	16	40.0	386	370	353 - 436	-	-	-	13	56	13	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	16	40.0	386	370	353 - 436	-	-	-	13	56	13	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hospitals .....	15	40.0	388	370	350 - 436	-	-	-	13	53	13	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	15	40.0	388	370	350 - 436	-	-	-	13	53	13	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Level III .....	36	39.9	407	364	343 - 460	-	-	-	33	25	6	17	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	36	39.9	407	364	343 - 460	-	-	-	33	25	6	17	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hospitals .....	16	40.0	462	460	441 - 536	-	-	-	19	-	6	31	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	16	40.0	462	460	441 - 536	-	-	-	19	-	6	31	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

**Table A-11. Health services: Weekly hours and pay of professional, administrative, technical, protective service, and clerical occupations, St. Louis, MO-IL, March 1995 — Continued**

Occupation and level	Number of workers	Average weekly hours <sup>1</sup> (standard)	Weekly pay (in dollars) <sup>2</sup>			Percent of workers receiving straight-time weekly pay (in dollars) of—																						
			Mean	Median	Middle range	Under 200	200 - 225	225 - 250	250 - 300	300 - 350	350 - 400	400 - 450	450 - 500	500 - 550	550 - 600	600 - 650	650 - 700	700 - 800	800 - 900	900 - 1000	1000 - 1100	1100 - 1200	1200 - 1300	1300 - 1400	1400 - 1500	1500 and over		
<b>Secretaries</b>																												
Level I .....	155	40.0	\$367	\$366	\$334 - \$408	-	-	-	12	32	25	24	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	155	40.0	367	366	334 - 408	-	-	-	12	32	25	24	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hospitals .....	155	40.0	367	366	334 - 408	-	-	-	12	32	25	24	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	155	40.0	367	366	334 - 408	-	-	-	12	32	25	24	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Level II .....	240	39.9	416	420	378 - 463	-	-	( <sup>3</sup> )	5	8	23	30	23	9	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	
Private industry .....	239	39.9	416	420	378 - 464	-	-	( <sup>3</sup> )	5	8	23	30	23	9	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-
Hospitals .....	227	40.0	417	420	378 - 464	-	-	( <sup>3</sup> )	5	8	22	30	25	9	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-
Private industry .....	226	40.0	417	420	378 - 464	-	-	( <sup>3</sup> )	5	8	22	30	25	9	( <sup>3</sup> )	-	-	-	-	-	-	-	-	-	-	-	-	-
Level III .....	329	39.9	471	466	420 - 515	-	-	-	( <sup>3</sup> )	3	13	24	30	14	9	5	1	1	-	-	-	-	-	-	-	-	-	
Private industry .....	329	39.9	471	466	420 - 515	-	-	-	( <sup>3</sup> )	3	13	24	30	14	9	5	1	1	-	-	-	-	-	-	-	-	-	-
Hospitals .....	314	40.0	471	466	419 - 515	-	-	-	( <sup>3</sup> )	4	13	24	30	13	9	5	1	1	-	-	-	-	-	-	-	-	-	-
Private industry .....	314	40.0	471	466	419 - 515	-	-	-	( <sup>3</sup> )	4	13	24	30	13	9	5	1	1	-	-	-	-	-	-	-	-	-	-
Level IV .....	62	40.0	591	600	529 - 660	-	-	-	-	-	-	-	13	15	23	23	23	5	-	-	-	-	-	-	-	-	-	
Private industry .....	61	40.0	591	601	529 - 660	-	-	-	-	-	-	-	13	15	21	23	23	5	-	-	-	-	-	-	-	-	-	
Hospitals .....	61	40.0	591	601	529 - 660	-	-	-	-	-	-	-	13	15	21	23	23	5	-	-	-	-	-	-	-	-	-	
Private industry .....	60	40.0	591	601	527 - 660	-	-	-	-	-	-	-	13	15	20	23	23	5	-	-	-	-	-	-	-	-	-	

<sup>1</sup> Standard hours reflect the workweek for which employees receive their regular straight-time salaries (exclusive of pay for overtime at regular and/or premium rates), and the earnings correspond to these weekly hours.

<sup>2</sup> Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. Also excluded are performance bonuses and lump-sum payments of the type negotiated in the auto and aerospace industries, as well as profit-sharing payments, attendance bonuses, Christmas or year-end bonuses, and other nonproduction bonuses. Pay increases, but not bonuses, under cost-of-living clauses, and incentive payments, however, are included. See Appendix A for definitions and methods used to compute means, medians, and middle ranges.

<sup>3</sup> Less than 0.5 percent.

<sup>4</sup> Workers were distributed as follows: 7 percent at \$1,600 and under \$1,700 and 7 percent at \$1,900 and under \$2,000.

NOTE: Because of rounding, sums of individual intervals may not equal 100 percent. Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupation or occupational levels may include data for categories not shown separately.

**Table A-12. Health services: Hourly pay of maintenance, toolroom, material movement, and custodial occupations, St. Louis, MO-IL, March 1995**

Occupation and level	Number of workers	Hourly pay (in dollars) <sup>1</sup>			Percent of workers receiving straight-time hourly pay (in dollars) of—																								
		Mean	Median	Middle range	4.25 and under 4.50	4.50-4.75	4.75-5.00	5.00-5.50	5.50-6.00	6.00-6.50	6.50-7.00	7.00-7.50	7.50-8.00	8.00-8.50	8.50-9.00	9.00-9.50	9.50-10.00	10.00-11.00	11.00-12.00	12.00-13.00	13.00-14.00	14.00-15.00	15.00-16.00	16.00-17.00	17.00-18.00	18.00-19.00	19.00 and over		
<b>MAINTENANCE AND TOOLROOM OCCUPATIONS</b>																													
<b>General Maintenance Workers</b> .....	363	\$9.86	\$10.02	\$7.76 - \$11.47	-	-	-	4	-	-	1	7	22	1	4	5	4	22	11	12	6	2	2	-	-	-	-	-	
Private industry .....	355	9.81	10.02	7.76 - 11.27	-	-	4	-	-	1	7	23	1	4	5	4	23	11	10	6	2	2	-	-	-	-	-		
Hospitals .....	169	11.05	10.91	9.82 - 12.32	-	-	-	-	-	-	1	3	2	6	8	8	28	17	12	11	4	3	-	-	-	-	-		
Private industry .....	161	11.01	10.72	9.77 - 12.05	-	-	-	-	-	-	-	3	2	6	8	8	29	17	8	11	4	3	-	-	-	-	-		
<b>Maintenance Electricians</b> .....	27	14.62	14.50	13.73 - 16.15	-	-	-	-	-	-	-	-	-	-	-	-	4	4	7	26	19	11	26	4	-	-	-		
Private industry .....	27	14.62	14.50	13.73 - 16.15	-	-	-	-	-	-	-	-	-	-	-	-	4	4	7	26	19	11	26	4	-	-	-		
Hospitals .....	27	14.62	14.50	13.73 - 16.15	-	-	-	-	-	-	-	-	-	-	-	-	4	4	7	26	19	11	26	4	-	-	-		
Private industry .....	27	14.62	14.50	13.73 - 16.15	-	-	-	-	-	-	-	-	-	-	-	-	4	4	7	26	19	11	26	4	-	-	-		
<b>Maintenance Electronics Technicians</b>																													
Level II .....	67	14.96	15.07	13.72 - 16.82	-	-	-	-	-	-	-	-	-	-	-	-	1	7	9	16	15	22	7	15	6	-	-		
Private industry .....	66	15.00	15.08	13.73 - 16.82	-	-	-	-	-	-	-	-	-	-	-	-	2	8	8	17	15	23	8	15	6	-	-		
Hospitals .....	67	14.96	15.07	13.72 - 16.82	-	-	-	-	-	-	-	-	-	-	-	-	1	7	9	16	15	22	7	15	6	-	-		
Private industry .....	66	15.00	15.08	13.73 - 16.82	-	-	-	-	-	-	-	-	-	-	-	-	2	8	8	17	15	23	8	15	6	-	-		
Level III .....	18	18.68	18.27	17.16 - 19.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	17	17	22	39	-		
Private industry .....	18	18.68	18.27	17.16 - 19.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	17	17	22	39	-		
Hospitals .....	18	18.68	18.27	17.16 - 19.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	17	17	22	39	-		
Private industry .....	18	18.68	18.27	17.16 - 19.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	17	17	22	39	-		
<b>MATERIAL MOVEMENT AND CUSTODIAL OCCUPATIONS</b>																													
<b>Guards</b>																													
Level I .....	395	7.80	7.86	6.16 - 9.16	-	-	14	-	5	6	10	8	8	13	8	5	5	13	4	-	-	-	-	-	-	-	-	-	
Private industry .....	392	7.79	7.75	6.16 - 9.10	-	-	14	-	5	6	10	8	8	13	8	5	4	14	4	-	-	-	-	-	-	-	-		
Hospitals .....	299	8.56	8.40	7.43 - 9.79	-	-	-	-	7	1	7	11	10	17	11	7	6	18	5	-	-	-	-	-	-	-	-		
Private industry .....	296	8.55	8.33	7.43 - 9.83	-	-	-	-	7	1	7	11	10	17	11	7	5	18	5	-	-	-	-	-	-	-	-		
<b>Janitors</b> .....	2,728	6.18	5.94	5.29 - 6.87	2	2	3	27	19	13	13	8	5	5	3	( <sup>3</sup> )	1	( <sup>3</sup> )	( <sup>3</sup> )	-	( <sup>3</sup> )	-	-	-	-	-	-	-	
Private industry .....	2,706	6.17	5.94	5.27 - 6.86	2	2	3	27	19	14	13	8	5	4	3	( <sup>3</sup> )	1	( <sup>3</sup> )	( <sup>3</sup> )	-	( <sup>3</sup> )	-	-	-	-	-	-	-	
Hospitals .....	1,780	6.51	6.28	5.52 - 7.36	-	( <sup>3</sup> )	3	20	20	12	13	12	8	7	4	1	1	( <sup>3</sup> )	( <sup>3</sup> )	-	( <sup>3</sup> )	-	-	-	-	-	-		
Private industry .....	1,758	6.49	6.26	5.52 - 7.36	-	( <sup>3</sup> )	3	20	20	12	13	12	8	7	4	1	1	( <sup>3</sup> )	( <sup>3</sup> )	-	( <sup>3</sup> )	-	-	-	-	-	-		
<b>Shipping/Receiving Clerks</b> .....	40	8.00	7.96	7.12 - 8.85	-	-	-	-	2	-	10	35	5	2	25	13	7	-	-	-	-	-	-	-	-	-	-		
Private industry .....	40	8.00	7.96	7.12 - 8.85	-	-	-	-	2	-	10	35	5	2	25	13	7	-	-	-	-	-	-	-	-	-	-		
Hospitals .....	40	8.00	7.96	7.12 - 8.85	-	-	-	-	2	-	10	35	5	2	25	13	7	-	-	-	-	-	-	-	-	-	-		
Private industry .....	40	8.00	7.96	7.12 - 8.85	-	-	-	-	2	-	10	35	5	2	25	13	7	-	-	-	-	-	-	-	-	-	-		
<b>Truckdrivers</b>																													
Light Truck .....	26	8.36	8.43	7.22 - 9.41	-	-	-	-	-	-	19	12	12	8	15	19	8	8	-	-	-	-	-	-	-	-	-		
Private industry .....	26	8.36	8.43	7.22 - 9.41	-	-	-	-	-	-	19	12	12	8	15	19	8	8	-	-	-	-	-	-	-	-	-		
Hospitals .....	26	8.36	8.43	7.22 - 9.41	-	-	-	-	-	-	19	12	12	8	15	19	8	8	-	-	-	-	-	-	-	-	-		
Private industry .....	26	8.36	8.43	7.22 - 9.41	-	-	-	-	-	-	19	12	12	8	15	19	8	8	-	-	-	-	-	-	-	-	-		

<sup>1</sup> Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. Also excluded are performance bonuses and lump-sum payments of the type negotiated in the auto and aerospace industries, as well as profit-sharing payments, attendance bonuses, Christmas or year-end bonuses, and other nonproduction bonuses. Pay increases, but not bonuses, under cost-of-living clauses, and incentive payments, however, are included. See Appendix A for definitions and methods used to compute means, medians, and middle ranges.

<sup>2</sup> Workers were distributed as follows: 17 percent at \$19.00 and under \$20.00 and 22 percent at \$21.00 and under \$22.00.

<sup>3</sup> Less than 0.5 percent.

NOTE: Because of rounding, sums of individual intervals may not equal 100 percent. Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupation or occupational levels may include data for categories not shown separately.

# Appendix A. Scope and Method of Survey

## Scope

This survey of the St. Louis, MO—IL Metropolitan Statistical Area covered establishments employing 50 workers or more in *goods producing industries* (mining, construction, and manufacturing); *service producing industries* (transportation, communications, electric, gas, and sanitary services; wholesale trade; retail trade; finance, insurance, and real estate; and service industries, including health services); and State and local governments.<sup>1</sup> Private households, agriculture, the Federal Government, and the self-employed were excluded from the survey. Table 1 in this appendix shows the estimated number of establishments and workers within scope of the survey and the number actually included in the survey sample.

## Sampling frame

The list of establishments from which the survey sample was selected (the sampling frame) was developed from the State unemployment insurance reports for the St. Louis, MO—IL Metropolitan Statistical Area (March 1991). Establishments with 50 workers or more during the sampling frame's reference period were included in the survey sample even if they employed fewer than 50 workers at the time of the survey.

The sampling frame was reviewed for completeness and accuracy prior to the survey and, when necessary, corrections were made: Missing establishments were added; out-of-business and out-of-scope establishments were removed; and addresses, employment levels, industry classification, and other information were updated.

## Survey design

The survey design includes classifying individual establishments into groups (strata) based on industry and employment size, determining the size of the sample for each group (stratum), and selecting an establishment sample from each stratum. The establishment sample size in a stratum was determined by expected number of employees to be found (based on previous occupational pay surveys) in professional, administrative, technical, protective service, and clerical occupations.

In other words, the larger the number of employees expected to be found in designated occupations, the larger the establishment sample in that stratum. An upward adjustment to the establishment sample size also was made in strata expected to have relatively high sampling error for certain occupations, based on previous survey experiences. (See section on "Reliability of estimates" below for discussion of sampling error.)

## Data collection and payroll reference

Data for the survey were obtained primarily by personal visits of the Bureau's field economists to a sample of establishments within the St. Louis, MO—IL Metropolitan Statistical Area. Collection for the survey was from November 1994 through May 1995 and reflects an average payroll reference month of March 1995. Data obtained for a payroll period prior to the end of February 1995 were updated to include general wage changes, if granted, scheduled to be effective through that date.

## Occupational pay

Occupations surveyed are common to a variety of public and private industries, and were selected from the following employment groups: (1) Professional and administrative; (2) technical and protective service; (3) clerical; (4) maintenance and toolroom; and (5) material movement and custodial. Occupational classification was based on a uniform set of job descriptions designed to take account of interestablishment variation in duties within the same job. Occupations selected for study are listed and described in appendix B, along with corresponding occupational codes and titles from the 1980 edition of the *Standard Occupational Classification Manual*.

Unless otherwise indicated, the pay data following the job titles are for all industries combined. Pay data for some of the occupations for all industries combined (or for some industry divisions within the scope of the survey) are not presented in the A-series tables because either (1) data did not provide statistically reliable results, or (2) there was the possibility of disclosure of individual

establishment data. Pay data not shown separately for industry divisions are included in data for all industries combined.

Occupational pay data are shown for full-time workers, i.e., those hired to work a regular weekly schedule. Pay data exclude premium pay for overtime and for work on weekends, holidays, and late shifts. Also excluded are bonuses and lump-sum payments of the type negotiated in the auto and aerospace industries, as well as profit-sharing payments, attendance bonuses, Christmas or year-end bonuses, and other nonproduction bonuses. Pay increases—but not bonuses—under cost-of-living allowance clauses and incentive payments, however, are included in the pay data. Weekly hours for professional, administrative, technical, protective service, and clerical occupations refer to the standard workweek (rounded to the nearest tenth of an hour) for which employees receive regular straight-time pay (exclusive of pay for overtime at regular and/or premium rates). Average weekly pay for these occupations are rounded to the nearest dollar. A-series tables provide distributions of workers by pay intervals.

Average pay reflect areawide estimates. Industries and establishments differ in pay levels and job staffing, and thus contribute differently to the estimates for each job. Therefore, average pay may not reflect the pay differential among jobs within individual establishments. Job descriptions used to classify employees in this survey usually are more generalized than those used in individual establishments to allow for minor differences among establishments in specific duties performed.

The *mean* is computed for each job by totaling the pay of all workers and dividing by the number of workers. The *median* designates position—one-half of the workers receive the same as or more and one-half receive the same as or less than the rate shown. The *middle range* is defined by two rates of pay; one-fourth of the workers earn the same as or less than the lower of these rates and one-fourth earn the same as or more than the higher rate. Medians and middle ranges are not provided when they do not meet reliability criteria.

Occupational employment estimates represent the total in all establishments within the scope of the study and not the number actually surveyed. Because occupational structures among establishments differ, estimates of occupational employment obtained from the sample of establishments studied serve only to indicate the relative importance of the jobs studied.

### Survey nonresponse

Data were not available from 14.2 percent of the sample establishments (representing 87,315 employees covered by the survey). An additional 6.1 percent of the sample establishments (representing 26,387 employees) were either out of business or outside the scope of the survey.

If data were not provided by a sample member, the weights (based on the probability of selection in the sample) of responding sample establishments were adjusted to account for the missing data. The weights for establishments which were out of business or outside the scope of the survey were changed to zero.

Some sampled establishments had a policy of not disclosing salary data for certain employees. No adjustments were made to salary estimates for the survey as a result of these missing data which affected two of the occupational work levels published in this bulletin. In all but two of the occupational levels published in this bulletin the proportion of employees for whom salary data were not available was less than 5 percent. The two jobs were Personnel Specialists IV (6.0 percent); and Word Processors I (5.1 percent).

### Reliability of estimates

The data in this bulletin are estimates from a scientifically selected probability sample. There are two types of errors possible in an estimate based on a sample survey—sampling and nonsampling.

*Sampling errors* occur because observations come only from a sample, not the entire population. The particular sample used in this survey is one of a number of all possible samples of the same size that could have been selected using the sample design. Estimates derived from the different samples would differ from each other.

A measure of the variation among these differing estimates is called the standard error or sampling error. It indicates the precision with which an estimate from a particular sample approximates the average result of all possible samples. The relative standard error (RSE) is the standard error divided by the estimate. For example, if the estimated average weekly salary of Secretaries Level IV is \$500 and the standard error is \$8, the RSE is 1.6 percent, or  $\$8/\$500 \times 100 = 1.6\%$ .

Estimates of relative standard errors for this survey vary among the occupational work levels depending on such factors as the frequency with which the job occurs, the dispersion of pay for the job, and the survey design. The distribution of published work levels for one relative standard error was as follows:

<i>Relative standard error</i>	<i>Percent of published occupational work levels</i>
Less than 1 percent	13.1
1 and under 3 percent	64.9
3 and under 5 percent	17.0
5 percent and over	5.0

The standard error can be used to calculate a "confidence interval" around a sample estimate. For example, a 95 percent confidence interval is centered at the sample estimate and includes all values within 2 times the estimate's standard error. If all possible samples were selected to estimate the population value, the interval from each sample would include the true population value approximately 95 percent of the time.

Using the RSE example above, there is 95 percent confidence that the true

population value for Secretaries Level IV is between \$484 and \$516 (i.e., \$500 plus or minus 2 x \$8).

*Nonsampling errors* can stem from many sources, such as inability to obtain information from some establishments; difficulties with survey definitions; inability of respondents to provide correct information; mistakes in recording or coding the data obtained; and other errors of collection, response, coverage, and estimation of missing data. Although not specifically measured, the survey's nonsampling errors are expected to be minimal due to the high response rate, the extensive and continuous training of field economists who gather survey data by personal visit, careful screening of data at several levels of review, annual evaluation of the suitability of job definitions, and thorough field testing of new or revised job definitions.

To measure and better control nonsampling errors that occur during data collection, a quality control procedure was applied to the survey design. The procedure, job match validation (JMV), is designed to identify the frequency, reasons for, and sources of incorrect decisions made by Bureau field economists in

matching company jobs to survey occupations. Once identified, the problems are discussed promptly with the field economists while the data are still being collected. Subsequently, the JMV results are tallied, reported to BLS staff, and become the basis for remedial action for future surveys.

Approximately 4 percent of the 584 sampled job match decisions reviewed by the JMV reviewers and checked with the respondents were subsequently changed by the JMV reviewers. These results are from a similar survey conducted in 1993, see *Occupational Compensation Survey: Pay Only, St. Louis, MO—IL*, BLS Bulletin 3070-11.

<sup>1</sup> For this survey, an establishment is an economic unit which produces goods or services, a central administrative office, or an auxiliary unit providing support services to a company. In manufacturing industries, the establishment is usually at a single physical location. In service-producing industries, all locations of an individual company in a Metropolitan Statistical Area are usually considered an establishment. In government, an establishment is defined as all locations of a government entity.

**Appendix table 1. Establishments and workers within scope of survey and number studied, St. Louis, MO-IL<sup>1</sup>, March 1995**

Industry division <sup>2</sup>	Number of establishments		Workers in establishments		
	Within scope of survey <sup>3</sup>	Studied	Within scope of survey <sup>4</sup>		Studied
			Number	Percent	
<b>ALL ESTABLISHMENTS</b>					
All divisions .....	2,478	367	710,859	100	347,302
Private industry .....	2,279	323	612,570	86	282,660
Goods producing .....	702	102	173,704	24	90,378
Manufacturing .....	590	84	160,637	23	86,026
Mining <sup>5</sup> .....	24	3	2,117	( <sup>6</sup> )	307
Construction <sup>5</sup> .....	88	15	10,950	2	4,045
Service producing .....	1,577	221	438,866	62	192,282
Transportation, communication, electric, gas, and sanitary services <sup>7</sup> .....	118	33	53,972	8	34,362
Wholesale trade <sup>8</sup> .....	185	17	21,609	3	3,627
Retail trade <sup>8</sup> .....	406	21	120,778	17	32,731
Finance, insurance, and real estate <sup>8</sup> .....	199	24	46,962	7	18,806
Services <sup>8</sup> .....	669	126	195,545	28	102,756
State and local government .....	199	44	98,289	14	64,642
<b>ESTABLISHMENTS EMPLOYING 500 WORKERS OR MORE</b>					
All divisions .....	220	133	423,813	100	304,693
Private industry .....	180	109	351,000	83	244,307
Goods producing .....	51	35	92,859	22	77,212
Manufacturing .....	49	33	91,299	22	75,652
Service producing .....	129	74	258,141	61	167,095
Transportation, communication, electric, gas, and sanitary services <sup>7</sup> .....	18	13	38,713	9	30,601
Retail trade <sup>8</sup> .....	38	10	84,471	20	31,125
Finance, insurance, and real estate <sup>8</sup> .....	9	8	21,451	5	16,202
Services <sup>8</sup> .....	62	41	112,074	26	87,735
State and local government .....	40	24	72,813	17	60,386
<b>HEALTH SERVICES<sup>9</sup></b>					
All divisions .....	210	44	90,354	13	54,175
Private industry .....	207	41	89,172	13	52,993
State and local government .....	3	3	1,182	( <sup>6</sup> )	1,182
Hospitals .....	33	21	61,581	9	47,904
Private industry .....	31	19	61,041	9	47,364

<sup>1</sup> The St. Louis Metropolitan Statistical Area, as defined by the Office of Management and Budget through October 1984, consists of St. Louis City; Franklin, Jefferson, St. Charles, and St. Louis Counties; and Sullivan City in Crawford County, MO; and Clinton, Jersey, Madison, Monroe, and St. Clair Counties, IL. The "workers within scope of survey" estimates provide a reasonably accurate description of the size and composition of the labor force included in the survey. Estimates are not intended, however, for comparison with other statistical series to measure employment trends or levels since (1) planning of wage surveys requires establishment data compiled considerably in advance of the payroll period studied, and (2) establishments employing fewer than 50 workers are excluded from the scope of the survey.

<sup>2</sup> The *Standard Industrial Classification Manual* was used in classifying establishments by industry.

<sup>3</sup> Includes all establishments with at least 50 total employees. In goods producing, an establishment is defined as a single physical location where industrial operations are performed. In service producing industries, an establishment is defined as all locations of a company in the area within the same industry division. In government, an establishment is generally defined

as all locations of a government entity.

<sup>4</sup> Includes all workers in all establishments with total employment (within an area) at or above the minimum limitations.

<sup>5</sup> Separate data for this division are not shown in the A-series tables, but the division is represented in the "all industries" and "goods producing" estimates.

<sup>6</sup> Less than 0.5 percent.

<sup>7</sup> Abbreviated to "Transportation and utilities" in the A-series tables. This division is represented in the "all industries" and "service producing" estimates.

<sup>8</sup> Separate data for this division are not shown in the A-series tables, but the division is represented in the "all industries" and "service producing" estimates.

<sup>9</sup> Health services includes establishments primarily engaged in furnishing medical, surgical, and other health services to persons.

Note: Overall industries may include data for industry divisions not shown separately.

# Appendix B.

## Occupational Descriptions

The primary purpose of preparing job descriptions for the Bureau's occupational pay surveys is to assist its field economists in classifying into appropriate occupations workers who are employed under a variety of payroll titles and different work arrangements from establishment to establishment and from area to area. This permits grouping of occupational wage rates representing comparable job content. Because of this emphasis on comparability of occupational content, the Bureau's job descriptions may differ significantly from those in use in individual establishments or those prepared for other purposes. In applying these job descriptions, the Bureau's field economists are instructed to exclude working supervisors; apprentices; learners, beginners, and trainees; and part-time, temporary, and probationary workers, unless specifically included in the job description. Handicapped workers whose pay are reduced because of their handicap are also excluded.

The titles and numeric codes below the job titles in this appendix are taken from the 1980 edition of the *Standard Occupational Classification Manual* (SOC), issued by the U.S. Department of Commerce, Office of Federal Statistical Policy and Standards.

In general, the occupational descriptions of the Bureau of Labor Statistics are much more specific than those found in the SOC manual. The BLS occupation, "Attorney," for example, excludes workers engaged in patent work; the SOC occupation (code 211) includes patent lawyers.

Thus, in comparing the results of this survey with other sources, factors such as differences in occupational definitions and survey scope should be taken into consideration.

### Professional

#### ACCOUNTANT

(1412: Accountant and auditor)

Performs professional operating or cost accounting work requiring knowledge of the theory and practice of recording, classifying, examining, and analyzing the data and records of financial transactions. The work generally requires a bachelor's degree in accounting or, in rare instances, equivalent experience and education combined.

Positions covered by this definition are characterized by the inclusion of work that is analytical, creative, evaluative, and advisory in nature. The work *draws* upon and *requires* a thorough knowledge of the fundamental doctrines, theories, principles, and terminology of accountancy, and often entails some understanding of such related fields as business law, statistics, and general management.

Professional responsibilities in accountant positions above levels I and II include several such duties as:

Analyzing the effects of transactions upon account relationships;

Evaluating alternative means of treating transactions;

Planning the manner in which account structures should be developed or modified;

Assuring the adequacy of the accounting system as the basis for reporting to management;

Considering the need for new or changed controls;

Projecting accounting data to show the effects of proposed plans on capital investments, income, cash position, and overall financial condition;

Interpreting the meaning of accounting records, reports, and statements;

Advising operating officials on accounting matters; and

Recommending improvements, adaptations, or revisions in the accounting system and procedures.

Accountant I and II positions provide opportunity to develop ability to perform professional duties such as those enumerated above.

*In addition* to such professional work, most accountants are also responsible for assuring the proper recording and documentation of transactions in the accounts. They, therefore, frequently direct nonprofessional personnel in the actual day-to-day maintenance of books of accounts, the accumulation of cost or other comparable data, the preparation of standard reports and statements, and similar work. (Positions involving such supervisory work but not including professional duties as described above are not included in this description.)

Some accountants use electronic data processing equipment to process, record, and report accounting data. In some such cases the machine unit is a subordinate segment of the accounting system; in others it is a separate entity or is attached to some other organization. In either instance, provided that the primary responsibility of the position is professional accounting work of the type otherwise included, the use of data processing equipment of any type does not of itself exclude a position from the accountant description nor does it change its level.

*Excluded are:*

- a. Top technical experts in accounting, for an organization, who are *responsible* for the overall direction of an entire accounting program which includes general accounting and at least one other major accounting activity such as cost, property, sales, or tax accounting;
- b. Accountants above level VI who are more concerned with administrative, budgetary, and policy matters than the day-to-day supervision of an operating accounting program; and
- c. Accountants primarily responsible for 1) designing and improving accounting systems or 2) performing nonoperating staff work such as budget or financial analysis, financial analysis, or tax advising.

## **Accountant I**

*General characteristics.* At this beginning professional level, the accountant learns to apply the principles, theories, and concepts of accounting to a specific system. The position is distinguishable from nonprofessional positions by the variety of assignments; rate and scope of development expected; and the existence, implicit or explicit, of a planned training program designed to give the entering accountant practical experience. (Terminal positions are excluded.)

*Direction received.* Works under close supervision of an experienced accountant whose guidance is directed primarily to the development of the trainee's professional ability and to the evaluation of advancement potential. Limits of assignments are clearly defined, methods of procedure are specified, and kinds of items to be noted and referred to supervisor are identified.

*Typical duties and responsibilities.* Performs a variety of accounting tasks such as: examining a variety of financial statements for completeness, internal accuracy, and conformance with uniform accounting classifications or other specific accounting requirements; reconciling reports and financial data with financial statements already on file, and pointing out apparent inconsistencies or errors; carrying out assigned steps in an accounting analysis, such as computing standard ratios; assembling and summarizing accounting literature on a given subject; preparing relatively simple financial statements not involving problems of analysis or presentation; and preparing charts, tables, and other exhibits to be used in reports. In addition, may also perform some nonprofessional tasks for training purposes.

*Responsibility for the direction of others.* Usually none.

## **Accountant II**

*General characteristics.* At this level, the accountant makes practical application of technical accounting practices and concepts beyond the mere application of detailed rules and instructions. Initial assignments are designed to expand practical experience and to develop professional judgment in the application of basic accounting techniques to simple problems. Is expected to be competent in the application of standard procedures and requirements to routine transactions, to raise questions about unusual or questionable items, and to suggest solutions.

*Direction received.* Work is reviewed to verify general accuracy and coverage of unusual problems, and to insure conformance with required procedures and special instructions.

*Typical duties and responsibilities.* Performs a variety of accounting tasks, e.g., prepares routine working papers, schedules, exhibits, and summaries indicating the extent of the examination and presenting and supporting findings and recommendations. Examines a variety of accounting documents to verify accuracy of computations and to ascertain that all transactions are properly supported, are in accordance with pertinent policies and procedures, and are classified and recorded according to acceptable accounting standards.

*Responsibility for the direction of others.* Usually none, although sometimes responsible for supervision of a few clerks.

## **Accountant III**

*General characteristics.* The accountant at this level applies well established accounting principles, theories, concepts, and practices to moderately difficult problems. Receives detailed instructions concerning the overall accounting system and its objectives, the policies and procedures under which it is operated, and the nature of changes in the system or its operation. Characteristically, the accounting system or assigned segment

is stable and well established (i.e., the basic chart of accounts, classifications, the nature of the cost accounting system, the report requirements, and the procedures are changed infrequently).

Depending upon the work load involved, the accountant may have such assignments as supervision of the *day-to-day* operation of: (a) the entire system of a relatively small organization; (b) a major segment (e.g., general accounting, cost accounting, financial statements and reports) of a somewhat larger system; or (c) in a complex system, may be assigned to a relatively narrow and specialized segment dealing with some problem, function, or portion of work which is appropriate for this level.

*Direction received.* A higher level professional accountant normally is available to furnish advice and assistance as needed. Work is reviewed for technical accuracy, adequacy of professional judgment, and compliance with instructions through spot checks, appraisal of results, subsequent processing, analysis of reports and statements, and other appropriate means.

*Typical duties and responsibilities.* The primary responsibility of most positions at this level is to assure that the assigned day-to-day operations are carried out in accordance with established accounting principles, policies, and objectives. The accountant performs such professional work as: developing nonstandard reports and statements (e.g., those containing cash forecasts reflecting the interrelations of accounting, cost budgeting, or comparable information); interpreting and pointing out trends or deviations from standards; projecting data into the future; predicting the effects of changes in operating programs; or identifying management informational needs, and refining account structures or reports accordingly.

Within the limits of delegated responsibility, makes day-to-day decisions concerning the accounting treatment of financial transactions. In expected to recommend solutions to moderately difficult problems and propose changes in the accounting system for approval at higher levels. Such recommendations are derived from personal knowledge of the application of well-established principles and practices.

*Responsibility for the direction of others.* In most instances is responsible for supervision of a subordinate nonprofessional staff; may coordinate the work of lower level professional accountants.

## Accountant IV

*General characteristics.* At this level the accountant applies well-established accounting principles, theories, concepts, and practices to a wide variety of difficult problems. Receives instructions concerning the objectives and operation of the overall accounting system. Compared with level III, the accounting system or assigned segment is more complex, i.e., (a) is relatively unstable, (b) must adjust to new or changing operational environments, (c) is substantially larger or (d) is complicated by the need to provide and

coordinate separate or specialized accounting treatment and reporting (e.g., cost accounting using standard cost, process cost, and job order techniques) for different internal operations or divisions.

Depending upon the work load and degree of coordination involved, the accountant IV may have such assignments as the supervision of the day-to-day operation of: (a) an entire accounting system which has a few relatively stable accounting segments; (b) a major segment (e.g., general accounting, cost accounting, or financial statements and reports) of an accounting system serving a larger and more complex organization; or (c) in a complex system, may be assigned to a relatively narrow and specialized segment dealing with some problem, function, or portion of work which is of the level of difficulty characteristic of this level.

*Direction received.* A higher level accountant normally is available to furnish advice and assistance as needed. Work is reviewed by spot checks and appraisal of results for adequacy of professional judgment, compliance with instructions, and overall accuracy and quality.

*Typical duties and responsibilities.* As at level III, a primary characteristic of most positions at this level is the responsibility of operating an accounting system or major segment of a system in the intended manner.

The accountant IV exercises professional judgment in making frequent, appropriate recommendations for: new accounts; revisions in the account structure; new types of ledgers; revisions in the reporting system or subsidiary records; changes in instructions regarding the use of accounts, new or refined account classifications or definitions; etc. Also makes day-to-day decisions concerning the accounting treatment of financial transactions and is expected to recommend solutions to complex problems beyond incumbent's scope of responsibility.

*Responsibility for the direction of others.* Accounting staff supervised, if any, may include professional accountants.

## Accountant V

*General characteristics.* The accountant V applies accounting principles, theories, concepts, and practices to the solution of problems for which no clear precedent exists or performs work which is of greater than average responsibility due to the nature or magnitude of the assigned work. Responsibilities at this level, in contrast to accountants at level IV, extend beyond accounting system maintenance to the solution of more complex technical and managerial problems. Work of accountants V is more directly concerned with what the accounting system (or segment) should be, what operating policies and procedures should be established or revised, and what is the managerial as well as the accounting meaning of the data included in the reports and statements for which they are responsible.

Examples of assignments characteristic of this level are supervision of the *day-to-day operation* of: (a) an entire accounting system which has a few relatively complex accounting segments; (b) a major segment of a larger and more complex accounting system; (c) an entire accounting system (or major segment) that is relatively stable and conventional when the work includes significant responsibility for accounting system design and development; or (d) in a complex system, may be assigned to a relatively narrow and specialized segment dealing with some problem, function, or portion of work which is itself of the level of difficulty characteristic of this level.

*Direction received.* An accountant of higher level normally is available to furnish advice and assistance as needed. Work is reviewed for adequacy of professional judgment, compliance with instructions, and overall quality.

*Typical duties and responsibilities.* The accountant V performs such professional work as: participating in the development and coordinating the implementation of new or revised accounting systems, and initiating necessary instructions and procedures; assuring that accounting reporting systems and procedures are in compliance with established administrative policies, regulations, and acceptable accounting practices; providing technical advice and services to operating managers, interpreting accounting reports and statements, and identifying problem areas; and evaluating complete assignments for conformance with applicable policies, regulations, and tax laws.

*Responsibility for the direction of others.* Accounting staff supervised generally includes professional accountants.

## Accountant VI

*General characteristics.* At this level, the accountant applies accounting principles, theories, concepts, and practices to specialized, unique, or nonrecurring complex problems (e.g., implementation of specialized automated accounting systems). The work is substantially more difficult and of greater responsibility than level V because of the unusual nature, magnitude, importance, or overall impact of the work on the accounting program.

At this level the accounting system or segment is usually complex, i.e., (a) is generally unstable, (b) must adjust to the frequent changing needs of the organization, or (c) is complicated by the need to provide specialized or individualized reports.

Examples of assignments at this level are the supervision of the day-to-day operation of: (a) a large and complex accounting system; or (b) a major segment (e.g., general accounting, property accounting, etc.) of an unusually complex accounting system requiring technical expertise in a particular accounting field (e.g., cost accounting, tax accounting, etc.).

*Direction received.* A higher level professional accountant is normally available to furnish advice as needed. Work is reviewed for adequacy of professional judgment, compliance with instructions and policies, and overall quality.

*Typical duties and responsibilities.* Accountants at this level are delegated complete responsibility from higher authority to establish and implement new or revised accounting policies and procedures. Typically, accountants VI participate in decision-making sessions with operating managers who have policy-making authority for their subordinate organizations or establishments; recommend management actions or alternatives which can be taken when accounting data disclose unfavorable trends, situations, or deviations; and assist management officials in applying financial data and information to the solution of administrative and operating problems.

*Responsibility for the direction of others.* Accounting staff supervised generally includes professional accountants.

## ACCOUNTANT, PUBLIC

(1412: Accountant and auditor)

Performs professional auditing work in a public accounting firm. Work requires at least a bachelor's degree in accounting. Participates in or conducts audits to ascertain the fairness of financial representations made by client companies. May also assist the client in improving accounting procedures and operations.

Examines financial reports, accounting records, and related documents and practices of clients. Determines whether all important matters have been disclosed and whether procedures are consistent and conform to acceptable practices. Samples and tests transactions, internal controls, and other elements of the accounting system(s) as needed to render the accounting firm's final written opinion.

*Excluded* are positions which do not require full professional accounting training. Also excluded are specialist positions in tax or management advisory services.

## Accountant, Public I

*General characteristics.* As an entry level public accountant, serves as a junior member of an audit team. Receives classroom and on-the-job training to provide practical experience in applying the principles, theories, and concepts of accounting and auditing to specific situations. (Positions held by trainee public accountants with advanced degrees, such as MBA's are excluded at this level.)

*Direction received.* Complete instructions are furnished and work is reviewed to verify its accuracy, conformance with required procedures and instructions, and usefulness in

facilitating the accountant's professional growth. Any technical problems not covered by instructions are brought to the attention of a superior.

*Typical duties and responsibilities.* Carries out basic audit tests and procedures, such as: verifying reports against source accounts and records; reconciling bank and other accounts; and examining cash receipts and disbursements, payroll records, requisitions, receiving reports, and other accounting documents in detail to ascertain that transactions are properly supported and recorded. Prepares selected portions of audit working papers.

## **Accountant, Public II**

*General characteristics.* At this level, the public accountant carries out routine audit functions and detail work with relative independence. Serves as a member of an audit team on assignments planned to provide exposure to a variety of client organizations and audit situations. Specific assignments depend upon the difficulty and complexity of the audit and whether the client has been previously audited by the firm. On moderately complex audits where there is previous audit experience by the firm, accomplishes complete segments of the audit (i.e., functional work areas such as cash, receivables, etc.). When assigned to more complicated audits, carries out activities similar to public accountant I.

*Direction received.* Works under the supervision of a higher level public accountant who provides instructions and continuing direction as necessary. Work is spot checked in progress and reviewed upon completion to determine the adequacy of procedures, soundness of judgment, compliance with professional standards, and adherence to clearly established methods and techniques. All interpretations are subject to close professional review.

*Typical duties and responsibilities.* Carries out a variety of sampling and testing procedures in accordance with the prescribed audit program, including the examination of transactions and verification of accounts, the analysis and evaluation of accounting practices and internal controls, and other detail work. Prepares a share of the audit working papers and participates in drafting reports. In moderately complex audits, may assist in selecting appropriate tests, samples, and methods commonly applied by the firm and may serve as primary assistant to the accountant in charge. In more complicated audits concentrates on detail work. Occasionally may be in charge of small, uncomplicated audits which require only one or two other subordinate accountants. Personal contacts usually involve only the exchange of factual technical information and are usually limited to the client's operating accounting staff and department heads.

## **Accountant, Public III**

*General characteristics.* At this level the public accountant is in charge of a complete audit and may lead a team of several subordinates. Audits are usually accomplished one at a time and are typically carried out at a single location. The firms audited are typically moderately complex, and there is usually previous audit experience by the firm. The audit conforms to standard procedural guidelines, but is often tailored to fit the client's business activities. Routine procedures and techniques are sometimes inadequate and require adaptation. Necessary data are not always readily available. When assigned to more difficult and complex audits (see level IV), the accountant may run the audit of a major component or serve as the primary assistant to the accountant in charge.

*Direction received.* Works under the general supervision of a higher level public accountant who oversees the operation of the audit. Work is performed independently, applying generally accepted accounting principles and auditing standards, but assistance on difficult technical matters is available. Work may be checked occasionally during progress for appropriateness and adherence to time requirements, but routine analyses, methods, techniques, and procedures applied at the work site are expected to be correct.

*Typical duties and responsibilities.* Is responsible for carrying out the technical features of the audit, leading team members and personally performing the most difficult work. Carries out field work in accordance with the general format prescribed in the audit program, but selects specific methods and types and sizes of samples and tests. Assigns work to team members, furnishes guidance, and adjusts work loads to accommodate daily priorities. Thoroughly reviews work performed for technical accuracy and adequacy. Resolves anticipated problems with established guidelines and priorities but refers problems of unusual difficulty to superiors for discussion and advice. Drafts financial statements, final reports, management letters, and other closing memoranda. Discusses significant recommendations with superiors and may serve as technical resource at "closing" meetings with clients. Personal contacts are usually with accounting directors and assistant controllers of medium size companies and divisions of large corporations to explain and interpret policies and procedures governing the audit process.

## **Accountant, Public IV**

*General characteristics.* At this level, the public accountant directs field work including difficult audits--e.g., those involving initial audits of new clients, acquisitions, or stock registration--and may oversee a large audit team split between several locations. The audit team usually includes one or more level III public accountants who handle major

components of the audit. The audits are complex and clients typically include those engaged in projects which span accounting periods; highly regulated industries which have various external reporting requirements; publicly held corporations; or businesses with very high dollar or transaction volume. Clients are frequently large with a variety of operations which may have different accounting systems. Guidelines may be general or lacking and audit programs are intricate, often requiring extensive tailoring to meet atypical or novel situations.

*Direction received.* Works under general supervision. The supervisor sets overall objectives and resource limits but relies on the accountant to fully plan and direct all technical phases of the audit. Issues not covered by guidelines or known precedents are discussed with the supervisor, but the accountant's recommended approaches and courses of action are normally approved. Work is reviewed for soundness of approach, completeness, and conformance with established policies of the firm.

*Typical duties and responsibilities.* Is responsible for carrying out the operational and technical features of the audit, directing the work of team members, and personally performing the most difficult work. Often participates in the development of the audit scope, and drafts complicated audit programs with a large number of concurrently executed phases. Independently develops audit steps and detailed procedures, deviating from traditional methods to the extent required. Makes program adjustments as necessary once an audit has begun; selects specific methods, types and sizes of samples, the extent to which discrepancies need to be investigated, and the depth of required analyses. Resolves most operational difficulties and unanticipated problems.

Assigns work to team members; reviews work for appropriateness, conformance to time requirements, and adherence to generally accepted accounting principles and auditing standards. Consolidates working papers, draft reports, and findings; and prepares financial statements, management letters, and other closing memoranda for management approval. Participates in "closing" meetings as a technical resource and may be called upon to sell or defend controversial and critical observations and recommendations. Personal contacts are extensive and typically include top executives of smaller clients and mid- to upper-level financial and management officers of large corporations, e.g., assistant controllers and controllers. Such contacts involve coordinating and advising on work efforts and resolving operating problems.

*Note:* *Excluded* from this level are public accountants who direct field work associated with the complete range of audits undertaken by the firm, lead the largest and most difficult audits, and who frequently oversee teams performing concurrent audits. This type of work requires extensive knowledge of one or more industries to make subjective determinations on questions of tax, law, accounting, and business practices. Audits may be complicated by such factors as: the size and diversity of the client organizations (e.g., multinational corporations and conglomerates with a large number of separate and distinct subsidiaries); accounting issues where precedents are lacking or in conflict; and, in some cases, clients who are

encountering substantial financial difficulties. They perform most work without technical supervision and completed audits are reviewed mainly for propriety of recommendations and conformance with general policies of the firm. Also excluded are public accountants whose principal function is to manage, rather than perform accounting work, and the equity owners of the firm who have final approval authority.

## ATTORNEY

(211: Lawyer)

Performs consultation and advisory work and carries out the legal processes necessary to effect the rights, privileges, and obligations of the organization. The work performed requires completion of law school with an L.L.B. degree (or the equivalent) and admission to the bar. *Responsibilities or functions include one or more of the following or comparable duties:*

Preparing and reviewing various legal instruments and documents, such as contracts, leases, licenses, purchases, sales, real estate, etc.;

Acting as agent of the organization in its transactions;

Examining material (e.g., advertisements, publications, etc.) for legal implications; advising officials of proposed legislation which might affect the organization;

Applying for patents, copyrights, or registration of the organization's products, processes, devices, and trademarks; advising whether to initiate or defend law suits;

Conducting pretrial preparations; defending the organization in lawsuits; and

Advising officials on tax matters, government regulations, and/or legal rights.

*Excluded are:*

- a. Patent work which requires professional training in addition to legal training (typically, a degree in engineering or in a science);
- b. Claims examining, claims investigating, or similar work for which professional legal training and bar membership is not essential;
- c. Attorneys, frequently titled "general counsel" or "attorney general" (and their immediate full associates or deputies), who are responsible for participating in the *management and formulation of policy for the overall organization in addition to directing its legal work.* (The duties and responsibilities of such positions exceed level VI as described below);

- d. Attorneys in legal firms; and,
- e. Attorneys primarily responsible for: prosecuting defendants; drafting legislation; defending the general public (e.g., public defenders, student's attorneys); and planning and producing legal publications.

Attorney jobs which meet the above definitions are to be classified and coded in accordance with the chart below.

**Criteria for matching attorneys by level**

Level	Difficulty level of legal work	Responsibility level of job	Experience required
I	This is the entry level. The duties and responsibilities after initial orientation and training are those described in D-1 and R-1.		Completion of law school with an L.L.B. or J.D. degree plus admission to the bar.
II	D-1	R-2	Sufficient professional experience (at least 1 year, usually more) at the "D-1" level to assure competence as an attorney.
	D-2	R-1	
III	D-2	R-2	At least 1 year, usually more, of professional experience at the "D-2" level.
IV	D-2	R-3	Extensive professional experience at the "D-2" or a higher level.
	D-3	R-2	
V	D-2	R-4	Extensive professional experience at the "D-3" or "R-3" levels.
	D-3	R-3	
VI	D-3	R-4	Extensive professional experience at the "D-3" and "R-3" levels.

D-1, -2, and -3, and R-1, -2, -3, and -4 are explained on the following pages.

*Difficulty*

**D-1**

Legal questions are characterized by: facts that are well-established; clearly applicable legal precedents; *and* matters not of substantial importance to the organization. (Usually relatively limited sums of money, e.g., a few thousand dollars, are involved.)

*Examples of D-1 work are:*

- a. legal investigation, negotiation, and research preparatory to defending the organization in potential or actual lawsuits involving alleged negligence where the

facts can be firmly established and there are precedent cases directly applicable to the situation;

- b. searching case reports, legal documents, periodicals, textbooks, and other legal references, and preparing draft opinions on employee compensation or benefit questions where there is a substantial amount of clearly applicable statutory, regulatory, and case material; and
- c. drawing up contracts and other legal documents in connection with real property

transactions requiring the development of detailed information but *not* involving serious questions regarding titles to property or other major factual or legal issues.

## D-2

Legal work is regularly difficult by reason of one or more of the following: the absence of clear and directly applicable legal precedents; the different possible interpretations that can be placed on the facts, the laws, or the precedents involved; the substantial importance of the legal matters to the organization (e.g., sums as large as \$100,000 are generally directly or indirectly involved); or the matter is being strongly pressed or contested in formal proceedings or in negotiations by the individuals, corporations, or government agencies involved.

*Examples of D-2 work are:*

- a. advising on the legal implications of advertising representations when the facts supporting the representations and the applicable precedent cases are subject to different interpretations;
- b. reviewing and advising on the implications of new or revised laws affecting the organization;
- c. presenting the organization's defense in court in a negligence lawsuit which is strongly pressed by counsel for an organized group; and
- d. providing legal counsel on tax questions complicated by the absence of precedent decisions that are directly applicable to the organization's situation.

## D-3

Legal work is typically complex and difficult because of one or more of the following: the questions are unique and require a high order of original and creative legal endeavor for their solution; the questions require extensive research and analysis and the obtaining and evaluation of expert testimony regarding controversial issues in a scientific, financial, corporate organization, engineering, or other highly technical area; the legal matter is of critical importance to the organization and is being vigorously pressed or contested (e.g., sums such as \$1 million or more are generally directly or indirectly involved.)

*Examples of D-3 work are:*

- a. advising on the legal aspects and implications of Federal antitrust laws to projected greatly expanded marketing operations involving joint ventures with several other organizations;
- b. planning legal strategy and representing a utility company in rate or government

franchise cases involving a geographic area including parts or all of several States;

- c. preparing and presenting a case before an appellate court where the case is highly important to the future operation of the organization and is vigorously contested by very distinguished (e.g., having a broad regional or national reputation) legal talent;
- d. serving as the principal counsel to the officers and staff of an insurance company on the legal problems in the sale, underwriting, and administration of group contracts involving nationwide or multi-state coverages and laws; and
- e. performing the principal legal work in nonroutine, major revision of a company's charter or in effectuating new major financing steps.

*Responsibility*

## R-1

Responsibility for final action is usually limited to matters covered by legal precedents and in which little deviation from standard practice is involved. Any decisions or actions having a significant bearing on the organization's business are reviewed. Is given guidance in the initial states of assignment, e.g., in planning and organizing level research and studies. Assignments are then carried out with moderate independence, although guidance is generally available and is sought from time to time on problem points.

## R-2

Usually works independently in investigating the facts, searching legal precedents, defining the legal and factual issues, drafting the necessary legal documents, and developing conclusions and recommendations. Decisions having an important bearing on the organization's business are reviewed. Receives information from supervisor regarding unusual circumstances or important policy considerations pertaining to a legal problem. If trials are involved, may receive guidance from a supervisor regarding presentation, line of approach, possible line of opposition to be encountered, etc. In the case of nonroutine written presentations, the final product is reviewed carefully, but primarily for overall soundness of legal reasoning and consistency with organization policy. Some, but not all, attorneys make assignments to one or more lower level attorneys, aides, or clerks.

## R-3

Carries out assignments independently and makes final legal determination in matters of substantial importance to the organization. Such determinations are subject to review only for consistency with organization policy, possible precedent effect, and overall effectiveness. To carry out assignments, deals regularly with officers of the organization

and top level management officials and confers or negotiates regularly with senior attorneys and officials in other organizations on various aspects of assigned work. Receives little or no preliminary instruction on legal problems and a minimum of technical legal supervision. May assign and review work of a few attorneys, but this is not a primary responsibility.

#### R-4

Carries out assignments which entail independently planning investigations and negotiations on legal problems of the highest importance to the organization and developing completed brief, opinions, contracts, or other legal products. To carry out assignments, represents the organization at conferences, hearings, or trials, and personally confers and negotiates with top attorneys and top-ranking officials in other organizations. On various aspects of assigned work, may give advice directly and personally to organization officials and top level managers, or (in extremely large and complex organizations) may work through a higher level attorney in advising officials. Generally receives no preliminary instructions on legal problems. On matters requiring the concentrated efforts of several attorneys or other specialists, is responsible for directing, coordinating, and reviewing the work of the attorneys involved.

OR

As a primary responsibility, directs the work of a staff of attorneys, one, but usually more, of who regularly perform either D-3 or R-3 legal work. With respect to the work directed, gives advice directly to organization officials and top managers, or (in extremely large and complex organizations) may give such advice through counsel. Receives guidance as to organization policy but not technical supervision or assistance except when requesting advice from or briefing by a higher level attorney on the overall approach to the most difficult, novel, or important legal questions.

### ENGINEER

(162-3: Engineer)

Performs professional work in research, development, design, testing, analysis, production, construction, maintenance, operation, planning, survey, estimating, application, or standardization of engineering facilities, systems, structures, processes, equipment, devices, or materials, requiring knowledge of the science and art by which materials, natural resources, and power are made useful. Work typically requires a B.S. degree in engineering or, in rare instances, equivalent education and experience combined. (Excluded are: safety engineers, industrial engineers, quality control engineers, sales engineers, and engineers whose primary responsibility is to be in charge of nonprofessional maintenance work.)

### Engineer I

*General characteristics.* At this beginning professional level, performs assignments designed to develop professional work knowledge and abilities. May also receive formal classroom or seminar-type training. (Terminal positions are excluded.)

*Direction received.* Works under close supervision. Receives specific and detailed instructions as to required tasks and results expected. Work is checked during progress and is reviewed for accuracy upon completion.

*Typical duties and responsibilities.* Performs a variety of routine tasks that are planned to provide experience and familiarization with the engineering staff, methods, practices, and programs of the employer.

*Responsibility for the direction of others.* Usually none.

### Engineer II

*General characteristics.* Performs routine engineering work requiring application of standard techniques, procedures, and criteria in carrying out a sequence of related engineering tasks. Limited exercise of judgment is required on details of work and in making preliminary selections and adaptations of engineering alternatives. Requires work experience acquired in an entry level position, or appropriate graduate level study. For training and developmental purposes, assignments may include some work that is typical of a higher level.

*Direction received.* Supervisor screens assignments for unusual or difficult problems and selects techniques and procedures to be applied on non-routine work. Receives close supervision on new aspects of assignments.

*Typical duties and responsibilities.* Using prescribed methods, performs specific and limited portions of a broader assignment of an experienced engineer. Applies standard practices and techniques in specific situations, adjusts and correlates data, recognizes discrepancies in results, and follows operations through a series of related detailed steps or processes.

*Responsibility for the direction of others.* May be assisted by a few aids or technicians.

### Engineer III

*General characteristics.* Independently evaluates, selects, and applies standard engineering techniques, procedures, and criteria, using judgment in making minor

adaptations and modifications. Assignments have clear and specified objectives and require the investigation of a limited number of variables. Performance at this level requires developmental experience in a professional position, or equivalent graduate level education.

*Direction received.* Receives instructions on specific assignment objectives, complex features, and possible solutions. Assistance is furnished on unusual problems and work is reviewed for application of sound professional judgment.

*Typical duties and responsibilities.* Performs work which involves conventional types of plans, investigations, surveys, structures, or equipment with relatively few complex features for which there are precedents. Assignments usually include one or more of the following: equipment design and development, test of materials, preparation of specifications, process study, research investigations, report preparation, and other activities of limited scope requiring knowledge of principles and techniques commonly employed in the specific narrow area of assignments.

*Responsibility for the direction of others.* May supervise or coordinate the work of drafters, technicians, and others who assist in specific assignments.

## Engineer IV

*General characteristics.* As a fully competent engineer in all conventional aspects of the subject matter or the functional area of the assignments, plans and conducts work requiring judgment in the independent evaluation, selection, and substantial adaptation and modification of standard techniques, procedures, and criteria. Devises new approaches to problems encountered. Requires sufficient professional experience to assure competence as a fully trained worker; or, for positions primarily of a research nature, completion of all requirements for a doctoral degree may be substituted for experience.

*Direction received.* Independently performs most assignments with instructions as to the general results expected. Receives technical guidance on unusual or complex problems and supervisory approval on proposed plans for projects.

*Typical duties and responsibilities.* Plans, schedules, conducts, or coordinates detailed phases of the engineering work in a part of a major project or in a total project of moderate scope. Performs work which involves conventional engineering practice but may include a variety of complex features such as conflicting design requirements, unsuitability of standard materials, and difficult coordination requirements. Work requires a broad knowledge of precedents in the specialty area and a good knowledge of principles and practices of related specialties.

*Responsibility for the direction of others.* May supervise a few engineers or technicians on assigned work.

## Engineer V

*General characteristics.* Applies intensive and diversified knowledge of engineering principles and practices in broad areas of assignments and related fields. Makes decisions independently on engineering problems and methods and represents the organization in conferences to resolve important questions and to plan and coordinate work. Requires the use of advanced techniques and the modification and extension of theories, precepts, and practices of the field and related sciences and disciplines. The knowledge and expertise required for this level of work usually result from progressive experience, including work comparable to engineer IV.

*Direction received.* Supervision and guidance relate largely to overall objectives, critical issues, new concepts, and policy matters. Consults with supervisor concerning unusual problems and developments.

*Typical duties and responsibilities* include one or more of the following:

1. In a supervisory capacity, plans, develops, coordinates, and directs a large and important engineering project or a number of small projects with many complex features. A substantial portion of the work supervised is comparable to that described for engineer IV.
2. As individual researcher or worker, carries out complex or novel assignments requiring the development of new or improved techniques and procedures. Work is expected to result in the development of new or refined equipment, materials, processes, products, and/or scientific methods.
3. As staff specialist, develops and evaluates plans and criteria for a variety of projects and activities to be carried out by others. Assesses the feasibility and soundness of proposed engineering evaluation tests, products, or equipment when necessary data are insufficient or confirmation by testing is advisable. Usually performs as a staff advisor and consultant in a technical specialty, a type of facility or equipment, or a program function.

*Responsibility for the direction of others.* Supervises, coordinates, and reviews the work of a small staff of engineers and technicians; estimates personnel needs and schedules and assigns work to meet completion date. Or, as individual researcher or staff specialist, may be assisted on projects by other engineers or technicians.

## Engineer VI

*General characteristics.* Has full technical responsibility for interpreting, organizing, executing, and coordinating assignments. Plans and develops engineering projects concerned with unique or controversial problems which have an important effect on

major programs. This involves exploration of subject area, definition of scope and selection of problems for investigation, and development of novel concepts and approaches. Maintains liaison with individuals and units within or outside the organization with responsibility for acting independently on technical matters pertaining to the field. Work at this level usually requires extensive progressive experience including work comparable to engineer V.

*Direction received.* Supervision received is essentially administrative, with assignments given in terms of broad general objectives and limits.

*Typical duties and responsibilities* include one or more of the following:

1. In a supervisory capacity, a) plans, develops, coordinates, and directs a number of large and important projects or a project of major scope and importance, or b) is responsible for the entire engineering program of a company or government agency when the program is of limited complexity and scope. Extent of responsibilities generally requires a few (3 to 5) subordinate supervisors or team leaders with at least one in a position comparable to level V.
2. As individual researcher or worker, conceives, plans, and conducts research in problem areas of considerable scope and complexity. The problems must be approached through a series of complete and conceptually related studies, are difficult to define, require unconventional or novel approaches, and require sophisticated research techniques. Available guides and precedents contain critical gaps, are only partially related to the problem, or may be largely lacking due to the novel character of the project. At this level, the individual researcher generally will have contributed inventions, new designs, or techniques which are of material significance in the solution of important problems.
3. As a staff specialist, serves as the technical specialist for the organization in the application of advanced theories, concepts, principles, and processes for an assigned area of responsibility (i.e., subject matter, function, type of facility or equipment, or product). Keeps abreast of new scientific methods and developments affecting the organization for the purpose of recommending changes in emphasis of programs or new programs warranted by such developments.

*Responsibility for the direction of others.* Plans, organizes, and supervises the work of a staff of engineers and technicians. Evaluates progress of the staff and results obtained, and recommends major changes to achieve overall objectives. Or, as individual researcher or staff specialist, may be assisted on individual projects by other engineers or technicians.

## Engineer VII

*General characteristics.* Makes decisions and recommendations that are recognized as

authoritative and have an important impact on extensive engineering activities. Initiates and maintains extensive contacts with key engineers and officials of other organizations, requiring skill in persuasion and negotiation of critical issues. At this level, individuals will have demonstrated creativity, foresight, and mature engineering judgment in anticipating and solving unprecedented engineering problems, determining program objectives and requirements, organizing programs and projects, and developing standards and guides for diverse engineering activities.

*Direction received.* Receives general administrative direction.

*Typical duties and responsibilities* include one or both of the following:

1. In a supervisory capacity, is responsible for a) an important segment of the engineering program of a company or government agency with extensive and diversified engineering requirements, or b) the entire engineering program of a company or agency when it is more limited in scope. The overall engineering program contains critical problems the solution of which requires major technological advances and opens the way for extensive related development. Extent of responsibilities generally requires several subordinate organizational segments or teams. Recommends facilities, personnel, and funds required to carry out programs which are directly related to and directed toward fulfillment of overall objectives.
2. As individual researcher and consultant, is a recognized leader and authority in the company or government agency in a broad area of specialization or in a narrow but intensely specialized field. Selects research problems to further program objectives. Conceives and plans investigations of broad areas of considerable novelty and importance, for which engineering precedents are lacking in areas critical to the overall engineering program. Is consulted extensively by associates and others, with a high degree of reliance placed on incumbent's scientific interpretations and advice. Typically, will have contributed inventions, new designs, or techniques which are regarded as major advances in the field.

*Responsibility for the direction of others.* Directs several subordinate supervisors or team leaders, some of who are in positions comparable to engineer VI; or as individual researcher and consultant, may be assisted on individual projects by other engineers and technicians.

## Engineer VIII

*General characteristics.* Makes decisions and recommendations that are recognized as authoritative and have a far-reaching impact on extensive engineering and related activities of the company or government agency. Negotiates critical and controversial issues with top level engineers and officers of other organizations. Individuals at this level demonstrate a high degree of creativity, foresight, and mature judgment in

planning, organizing, and guiding extensive engineering programs and activities of outstanding novelty and importance.

*Direction received.* Receives general administrative direction.

*Typical duties and responsibilities* include one or both of the following:

1. In supervisory capacity, is responsible for a) an important segment of a very extensive and highly diversified engineering program of a company or government agency, or b) the entire engineering program of a company or agency when the program is of moderate scope. The programs are of such complexity and scope that they are of critical importance to overall objectives, include problems of extraordinary difficulty that often have resisted solution, and consist of several segments requiring subordinate supervisors. Decides the kind and extent of engineering and related programs needed to accomplish the objectives of the company or agency, chooses scientific approaches, plans and organizes facilities and programs, and interprets results.
2. As individual researcher and consultant, formulates and guides the attack on problems of exceptional difficulty and marked importance to the company, industry, or government. Problems are characterized by their lack of scientific precedents and source material, or lack of success of prior research and analysis so that their solution would represent an advance of great significance and importance. Performs advisory and consulting work as a recognized authority for broad program areas or in an intensely specialized area of considerable novelty and importance.

*Responsibility for the direction of others.* Supervises several subordinate supervisors or team leaders, some of whose positions are comparable to engineer VII, or individual researchers some of whose positions are comparable to engineer VII and sometimes engineer VIII. As an individual researcher and consultant may be assisted on individual projects by other engineers or technicians.

*Note:* Individuals in charge of an engineering program may match any of several of the survey job levels, depending on the program's size and complexity. Excluded from the definition are: 1) engineers in charge of programs so extensive and complex (e.g., consisting of research and development on a variety of complex products or systems with numerous novel components) that one or more subordinate supervisory engineers are performing at level VIII; 2) individuals whose decisions have direct and substantial effect on setting policy for the organization (included, however, are supervisors deciding the "kind and extent of engineering and related programs" within broad guidelines set at higher levels); and 3) individual researchers and consultants who are recognized as national and/or international authorities and scientific leaders in very broad areas of scientific interest and investigation.

## REGISTERED NURSE (RN)

(29: Registered nurse)

Provides professional nursing care to patients in hospitals, nursing homes, clinics, health units, private residences, and community health organizations. (Visiting nurses are included.) Assists physicians with treatment; assesses patient health problems and needs; develops and implements nursing care plans; maintains medical records; and assists patients in complying with prescribed medical regimen. May specialize, e.g., operating room nurse, psychiatric nurse, nurse anesthetist, industrial nurse, nurse practitioner, and clinical nurse specialist. May supervise LPN's and nursing assistants.

*Excluded are:*

- a. Nurse midwives;
- b. Nursing instructors, researchers, and consultants *who do not provide nursing care to patients*;
- c. Nursing supervisors and managers, e.g., head nurses, nursing coordinators, directors of nursing; and
- d. RN trainees primarily performing such entry level nursing care as: recording case histories; measuring temperature, pulse, respiration, height, weight, and blood pressure; and testing vision and hearing.

### Registered Nurse I

Provides comprehensive general nursing care to patients whose conditions and treatment are normally uncomplicated. Follows established procedures, standing orders, and doctor's instructions. Uses judgment in selecting guidelines appropriate to changing patient conditions. Routine duties are performed independently; variations from established routines are performed under specific instructions. Typical assignments include:

*Staff.* Prepares hospital or nursing home patients for tests, examinations, or treatment; assists in responding to emergencies; records vital signs and effects of medication and treatment in patient charts; and administers prescribed medications and intravenous feedings.

*Operating Room.* Assists in surgical procedures by preparing patients for less complex operations (e.g., appendectomies); sterilizes instruments and other supplies; handles instruments; and assists in operating room, recovery room, and intensive care ward.

*Psychiatric.* Provides routine nursing care to psychiatric patients. May observe and record patient behavior.

*Health Unit/Clinic.* Administers immunizations, inoculations, allergy treatments, and medications in a clinic or employer health unit; performs first aid for minor burns, cuts, bruises, and sprains; obtains patient histories; and keeps records, writes reports, and maintains supplies and equipment.

## Registered Nurse II

Plans and provides comprehensive nursing care in accordance with professional nursing standards. Uses judgment in assessing patient conditions, interprets guidelines, and modifies patient care as necessary. Recognizes and determines proper action for medical emergencies, e.g., calls physician or takes preplanned emergency measures. Typical assignments include:

*Staff.* In addition to the duties described at level I, usually performs more complex procedures, such as: administering blood transfusions; managing nasal-pharyngeal, gastric suction, and other drainage tubes; using special equipment such as ventilator devices, resuscitators, and hypothermic units; or closely monitoring postoperative and seriously ill patients.

*Operating Room.* Provides nursing service for surgical operations, including those involving complex and extensive surgical procedures. Confers with surgeons concerning instruments, sutures, prosthesis, and special equipment; cares for physical and psychological needs of patients; assists in the care and handling of supplies and equipment; assures accurate care and handling of specimens; and assumes responsibility for aseptic technique maintenance and adequacy of supplies during surgery.

*Psychiatric.* Provides comprehensive nursing care for psychiatric patients. In addition to observing patients, evaluates and records significant behavior and reaction patterns and participates in group therapy sessions.

*Health Unit/Clinical.* Provides a range of nursing services, including preventive health care counseling. Coordinates health care needs and makes referrals to medical specialists; assesses and treats minor health problems; advises whether employees should return to work, or be referred to physician; administers emergency treatment; performs limited portions of physical examinations; manages the stable phases of common chronic illnesses; and provides individual and family counseling.

*Community Health.* Provides a broad range of nursing services including adult and child health care, chronic and communicable disease control, health teaching, counseling, referrals, and follow-up.

## Registered Nurse II Specialist

Plans and provides highly specialized patient care in a difficult specialty area, such as intensive care or critical care. In comparison with registered nurse II, pay typically reflects advanced specialized training, experience, and certification. May assist higher level nurses in developing, evaluating, and revising nursing plans. May provide advice to lower level nursing staff in area of specialty.

## Registered Nurse III

Plans and performs specialized and advanced nursing assignments of considerable difficulty. Uses expertise in assessing patient conditions and develops nursing plans which serve as a role model for others. Evaluation and observation skills are relied upon by physicians in developing and modifying treatment. Work extends beyond patient care to the evaluation of concepts, procedures, and program effectiveness. Typical assignments include:

*Specialists.* Provides specialized hospital nursing care to patients having illnesses and injuries that require adaptation of established nursing procedures. Renders expertise in caring for patients who are seriously ill; are not responding to normal treatment; have undergone unique surgical operations; or are receiving infrequently used medication. Duties may require knowledge of special drugs or the ability to provide pulmonary ventilation.

*Psychiatric Specialist.* Provides nursing expertise on an interdisciplinary treatment team which defines policies and develops total care programs for psychiatric patients.

*Practitioner.* Provides primary health care and nursing services in clinics, schools, employer health units, or community health organizations. Assesses, diagnoses, and treats minor illnesses and manages chronic health problems. Other services may include: providing primary care for trauma cases, including suturing; planning and conducting a clinic, school, or employer health program; or studying and appraising community health services.

## Registered Nurse III Anesthetist

Recommends and administers general anesthetics intravenously, topically, by inhalation, or by endotracheal intubation; induces patient anesthesia, and manages proper states of patient narcosis throughout prolonged surgeries. Determines the need for and administers parenteral fluids, including plasma and blood; administers stimulants as directed. May also administer local anesthetics, as needed.

## Registered Nurse IV

Plans, researches, develops, and implements new or modified techniques, methods, practices, and approaches in nursing care. Acts as consultant in area of specialization and is considered an expert or leader within specialty area. Consults with supervisor to develop decisions and coordinates with other medical staff and community. Typical assignments include:

*Specialist/Consultant.* Provides expert and complex hospital nursing and health care to a specialized group of patients. Develops and monitors the implementation of new nursing techniques, policies, procedures and programs; instructs nursing and medical staff in specialty; represents the specialty to outside organizations; and evaluates, interprets, and integrates research findings into nursing practices.

*Practitioner.* Serves as primary health advisor in clinics and community health organizations and provides full range of health care services. Manages clinic and is responsible for formulating nursing and health care standards and policies, including developing and teaching new techniques or practices and establishing or revising criteria for care. Collaborates with physician in planning, evaluating, coordinating, and revising program and determines conditions, resources and policies essential to delivery of health care services.

## Administrative

### BUDGET ANALYST

(141: Accountant, auditor, and other financial specialist)

Formulates and analyzes and/or administers and monitors an organization's budget. Typical duties include: Preparing budget estimates to support programs; presenting and justifying budget estimates; administering approved budgets and determining funding requirements within authorized limits; evaluating and administering requests for funds and monitoring and controlling obligations and expenditures; and developing and interpreting budget policies.

*In addition* to the technical responsibilities described in levels I through IV, budget analysts may also supervise subordinate staff members. At levels I and II, the subordinate staff typically consists of clerical and paraprofessional employees; level III may also coordinate the work of lower level analysts; and level IV may supervise one or two analysts. Positions responsible for supervising three or more budget analysts and support staff should typically be matched to the budget analyst supervisor definition.

*Excluded are:*

- a. Budget clerks and assistants performing clerical work in support of budget analysts;
- b. Program analysts evaluating the success of an organization's operating programs;
- c. Financial analysts evaluating the financial operations, transactions, practices and structure of an organization; and
- d. Budget analysts (above level IV) responsible for analyzing and administering highly complex budgets requiring frequent reprogramming and evaluating the impact of complicated legislation or policy decisions on the organization's budget.

### Budget Analyst I

As a trainee, performs a variety of clearly-defined tasks assigned to increase the employee's knowledge and understanding of budget concepts, principles, practices, and procedures. Assists in the development of budgets by comparing projected costs to schedules; or assists in budget administration by examining and highlighting obvious deviations in reports listing the status of financial obligations and expenditures. (Terminal positions are excluded.)

Work is performed under close supervision. Assignments are clearly defined, methods are specified, and items to be noted and referred to supervisor are identified.

### Budget Analyst II

Performs routine and recurring budget analysis duties which typically facilitate more complex review and analysis performed by supervisors or higher-level budget analysts. Initial assignments are designed to expand practical experience and to develop judgment in applying basic budget analysis techniques. Follows specific guidelines and previous budget reports in analyzing budgets for operating programs which are uniform and repetitive. Typical duties include:

*Budget development:* Assisting operating officials in preparing budget requests and justifications by gathering, extracting, reviewing, verifying, and consolidating a variety of narrative and statistical data; examining budget requests for accuracy and conformance with procedures and regulations; and comparing budget requests with prior year estimates and current operating reports; and/or

*Budget administration:* Screening requests for allocations of approved budgets and recommending approval, disapproval, or modification based on availability of funds and conformance with regulations; analyzing operating reports to monitor program expenditures and obligations; and summarizing narrative and statistical data in budget forms and reports.

Applies previously learned skills to perform routine work independently. Supervisor provides information regarding budgetary actions to be performed, organizational functions to be covered, and specific instructions for unfamiliar work or complex problems.

### **Budget Analyst III**

Uses a knowledge of commonly used budgetary procedures and practices, regulations, and organizational policies to analyze budgets for relatively stable operations (e.g., minor budget reprogramming is required two or three times a year). Forecasts funding needs for operating programs with varying annual requirements for goods, services, equipment, and personnel. Typical duties include:

*Budget development:* Reviews and verifies budget data for consistency with financial and program objectives; formulates and revises budget estimates; validates justifications through comparisons with operating reports; and explores funding alternatives based on precedents and guidelines; and/or

*Budget administration:* Certifies obligations and expenditures, monitors trends in spending, and anticipates funding and reprogramming needs; within established limits, recommends transfer of funds within accounts to cover increased expenditures; assembles data for use in preparing budget and program evaluations; and recommends the approval of or revises requests for allotments.

Carries out assignments independently in accordance with standard procedures and practices. Supervisor provides assistance on unfamiliar or unusual problems. May perform more complex assignments to assist supervisor or higher level analyst.

### **Budget Analyst IV**

Provides analytical support for budgets which require annual modifications due to changing work processes, resource needs, funding requirements, or fluctuating revenue. Interprets guidelines and precedents and advises operating managers concerning budgeting policies. May recommend new budgeting techniques. Typical duties include:

*Budget development:* Performs in-depth analysis of budget requests using techniques such as cost-benefit analysis and program trade-offs, and by exploring alternative methods of funding; writes and edits justifications for higher level approval; coordinates the compilation and evaluation of

information required for executive level budget meetings; confers on modifications to budget requests; and interprets, revises, and develops procedures and instructions for preparing and presenting budget requests; and/or

*Budget administration:* Prepares a variety of reports detailing the status of funds, expenses, and obligations; identifies trends and recommends adjustments in program spending; advises management on budgeting deadlines and alternative means of accomplishing budgetary objectives; and serves as budgeting liaison between managers and staff of various organizational programs.

Participates with supervisor in determining deadlines for assigned projects, which are linked to the budget cycle and typically require more than a year for completion. Works independently for several months at a time, with little review, while work progresses.

### **BUYER/CONTRACTING SPECIALIST**

(1449: Purchasing agent and buyer, not elsewhere classified)

Purchases materials, supplies, equipment, and services (e.g., utilities, maintenance, and repair) and/or administers purchase contracts (assuring compliance after contract is awarded). In some instances items purchased are of types that must be specially designed, produced, or modified by the vendor in accordance with drawings or engineering specifications.

Solicits bids, analyzes quotations received, and selects or recommends suppliers. At levels III and higher, formal contract negotiation methods are typically used where knowledge of market trends and conditions is required. May interview prospective vendors.

Purchases items and services or negotiates contracts at the most favorable price consistent with quality, quantity, specification requirements, and other factors. Prepares or supervises preparation of purchase orders from requisitions. May expedite delivery and visit vendors' offices and plants.

Normally, purchases are unreviewed when they are consistent with past experience and are in conformance with established rules and policies. Proposed purchase transactions that deviate from the usual or from past experience in terms of prices, quality of items, quantities, etc., or that may set precedents for future purchases, are reviewed by higher authority prior to final action.

Contract administration includes determining allowable costs, monitoring contractor compliance with contract terms, resolving problems concerning obligations of the parties, explaining and renegotiating contract terms, and ensuring satisfactory contract completion.

In addition to work described above, some (but not all) buyers or contracting specialists direct the work of one or a few clerks who perform routine aspects of the work. As a secondary and subsidiary duty, some buyers may also sell or dispose of surplus, salvage, or used materials, equipment, or supplies.

*Note:* Some buyers or contracting specialists are responsible for the purchasing or contract administration of a variety of items and materials. When the variety includes items and work described at more than one of the following levels, the position should be considered to equal the highest level that characterizes at least a substantial portion of the buyer's time.

*Excluded are:*

- a. Buyers of items for direct sale, either wholesale or retail;
- b. Brokers and dealers buying for clients or for investment purposes;
- c. Positions that specifically require professional education and qualifications in a physical science or in engineering (e.g., chemist, mechanical engineer);
- d. Buyers who specialize in purchasing a single or a few related items of highly variable quality such as raw cotton or wool, tobacco, cattle, or leather for shoe uppers, etc. Expert personal knowledge of the item is required to judge the relative value of the goods offered, and to decide the quantity, quality, and price of each purchase in terms of its probable effect on the organization's profit and competitive status;
- e. Buyers or contracting specialists whose principal responsibility is the supervision of a purchasing or contracting program;
- f. Persons whose major duties consist of ordering, reordering, or requisitioning items under existing contracts;
- g. Positions restricted to clerical functions or to purchase expediting work;
- h. Positions not requiring: 1) three years of administrative, technical, or substantive clerical experience; 2) a bachelor's degree in any field; or 3) any equivalent combination of experience and education yielding basic skills in problem analysis and communication; and
- i. Contracting specialists above level V having broad responsibilities for resolving critical problems on major long-term purchases, developing new approaches or innovative acquisition plans, and/or developing procurement policies and

procedures. These specialists use extensive judgment and originality to plan procurement strategies for large scale acquisition programs or systems.

### **Buyer/Contracting Specialist I**

Purchases "off-the-shelf" types of readily available, commonly used materials, supplies, tools, furniture, services, etc.

Transactions usually involve local retailers, wholesalers, jobbers, and manufacturers' sales representatives.

Quantities purchased are generally small amounts, e.g., those available from local sources.

*Examples* of items purchased include: common stationery and office supplies; standard types of office furniture and fixtures; standard nuts, bolts, screws; janitorial and common building maintenance supplies; or common utility services or office machine repair services.

*OR*

As a trainee, performs various clearly defined procurement tasks designed to increase the employee's knowledge and understanding of procurement and contracting concepts, principles, practices, and procedures. Examples of duties include: assisting in the preparation of solicitation documents; analyzing prices, discounts, and delivery dates; making procurement recommendations; and drafting simple contract provisions and supporting documentation. Work is performed under close supervision.

### **Buyer/Contracting Specialist II**

Purchases "off-the-shelf" types of standard, generally available technical items, materials, and services. Transactions may involve occasional modification of standard and common usage items, materials, and services, and include a few stipulations about unusual packing, marking, shipping, etc.

Transactions usually involve dealing directly with manufacturers, distributors, jobbers, etc. Limited contract negotiation techniques may be used, primarily for developmental purposes to increase employee's skill and knowledge.

Quantities of items and materials purchased may be relatively large, particularly in the case of contracts for continuing supply over a period of time.

May be responsible for locating or promoting possible new sources of supply. Usually is expected to keep abreast of market trends, changes in business practices in the assigned markets, new or altered types of materials entering the market, etc.

*Examples of items purchased or under contract include:* standard industrial types of hand tools, gloves, and safety equipment; standard electronic parts, components, and component test instruments; electric motors; gasoline service station equipment; PBX or other specialized telephone services; special purpose printing services; custodial services for a large building; and routine purchases of common raw materials such as standard grades and sizes of steel bars, rods, and angles.

Also included at this level are buyers of materials of the types described for Buyer I when the quantities purchased are large, so that local sources of supply are generally inadequate and the buyer must deal directly with manufacturers on a broader than local scale.

OR

In a developmental position, assists higher level buyers or contracting specialists in purchasing, and/or negotiating contracts for items, materials, or services of a technical and specialized nature. Assigned work is designed to provide diversified experience, as a background for future higher level work. Examples of duties include: reviewing requisitions and drafting solicitations; evaluating bids and the dependability of suppliers; meeting with commercial representatives; and monitoring the progress of contractors. Supervisor provides general instructions, monitors work, and reviews recommendations. Standard or routine aspects of work are performed with greater independence.

### **Buyer/Contracting Specialist III**

Purchases items, materials, or services of a technical and specialized nature, usually by negotiating a standard contract based on reimbursement of costs and expenses or a fixed price ceiling. May be responsible for overseeing the postaward (contract administration) functions (e.g., monitoring contract compliance, recommending action on problem situations, and negotiating extensions of delivery schedules) of such contracts. The items, while of a common general type, are usually made, altered, or customized to meet the user's specific needs and specifications.

The number of potential vendors is likely to be small and price differentials often reflect important factors (quality, delivery dates and places, etc.) that are difficult to evaluate.

The quantities purchased of any item or service may be large. Many of the purchases involve one or more such complications as: specifications that detail, in technical terms, the required physical, chemical, electrical, or other comparable properties; special testing prior to acceptance; grouping of items for lot bidding and awards; specialized processing, packing, or packaging requirements; export packs; overseas port differentials; etc.

Is expected to keep abreast of market and product developments. May be required to

locate new sources of supply.

Some positions may involve *assisting* in the training or supervision of lower level buyers or clerks.

*Examples of items purchased include:* castings; special extruded shapes of normal size and material; special formula paints; electric motors of special shape or speeds; production equipment; special packaging of items; raw materials in substantial quantities or with special characteristics; and protective services where security presents an especially significant problem.

### **Buyer/Contracting Specialist IV**

Negotiates and/or administers purchase contracts for complex and highly technical items, materials, or services, frequently specially designed and manufactured exclusively for the purchaser.

Transactions require dealing with manufacturers and often involve persuading potential vendors to undertake the manufacture of custom designed items according to complex and rigid specifications. Negotiation techniques are also frequently involved with convincing the vendor to reduce costs.

Quantities of items and materials purchased are often large in order to satisfy the requirements for an entire large organization for an extended period of time. Complex schedules of delivery are often involved. Contracting specialists determine appropriate quantities to be contracted for at any given period of time and negotiate with vendors to establish or adjust delivery schedules.

Negotiations and contract administration are often complicated by the following: requirements for spare parts, preproduction samples and testing, or technical literature; patent and royalty provisions; or renegotiation of contract terms. In reviewing contract proposals, extensive cost analysis is required to evaluate the cost of such factors as 1) numerous technical specifications, and 2) potential changes in manufacturing processes that might affect projected cost figures. These complications result in the incorporation of numerous special provisions and incentives in renegotiated contracts.

In addition to the work described above, a few positions may also require supervision of a few lower level buyers, contracting specialists or clerks. (No position is included in this level solely because supervisory duties are performed.)

*Examples of items purchased include:* special purpose high-cost machine tools and production facilities; specialized condensers, boilers, and turbines; raw materials of

critically important characteristics or quality; and parts, subassemblies, components, etc., specially designed and made to order (e.g., communications equipment for installation in aircraft being manufactured; component assemblies for missiles and rockets; and motor vehicle frames).

## COMPUTER PROGRAMMER

(397: Programmer)

Performs programming services for establishments or for outside organizations who may contract for services. Converts specifications (precise descriptions) about business or scientific problems into a sequence of detailed instructions to solve problems by electronic data processing (EDP) equipment, i.e., digital computers. Draws program flow charts to describe the processing of data and develops the precise steps and processing logic which, when entered into the computer in coded language (COBOL, FORTRAN, or other programming language), cause the manipulation of data to achieve desired results. Tests and corrects programs and prepares instructions for operators who control the computer during runs. Modifies programs to increase operating efficiency or to respond to changes in work processes; maintains records to document program development and revisions.

At levels I, II, and III, computer programmers *may also perform* programming analysis such as: gathering facts from users to define their business or scientific problems and to investigate the feasibility of solving problems through new or modified computer programs; developing specifications for data inputs, flow, actions, decisions, and outputs; and participating on a continuing basis in the overall program planning along with other EDP personnel and users.

In contrast, at levels IV and V, some programming analysis must be performed as part of the programming assignment. The analysis duties are identified in a separate paragraph at levels I, II, III, and IV, and are part of each alternative described at level V. However, the systems requirements are defined by systems analysts or scientists.

*Excluded are:*

- a. Positions which require a bachelor's degree in a specific scientific field (other than computer science), such as an engineering, mathematics, physics, or chemistry degree; however, positions are potential matches where the required degree may be from any of several possible scientific fields;
- b. Positions responsible for developing and modifying computer systems;

- c. Computer programmers who perform level IV or V duties but who perform no programming analysis;
- d. Workers who primarily analyze and evaluate problems concerning computer equipment or its selection or utilization;
- e. Computer systems programmers or analysts who primarily write programs or analyze problems concerning the system software, e.g., operating systems, compilers, assemblers, system utility routines, etc., which provide basic services for the use of all programs and provide for the scheduling of the execution of programs; however, positions matching this definition may develop a "total package which includes not only writing programs to process data but also selecting the computer equipment and system software required;
- f. Employees who have significant responsibility for the management or supervision of workers (e.g., systems analysts) whose positions are *not* covered in this definition; or employees with significant responsibility for *other functions* such as computer operations, data entry, system software, etc.; and
- g. Positions *not* requiring: 1) three years of administrative, technical, or *substantive* clerical experience; 2) a bachelor's degree in any field; or 3) any equivalent combination of experience and education yielding basic skills in problem analysis and communication.

Positions are classified into levels based on the following definitions.

### Computer Programmer I

At this trainee level, assignments are usually planned to develop basic programming skills because incumbents are typically inexperienced in applying such skills on the job. Assists higher level staff by performing elementary programming tasks which concern limited and simple data items and steps which closely follow patterns of previous work done in the organization, e.g., drawing flow charts, writing operator instructions, or coding and testing routines to accumulate counts, tallies, or summaries. May perform routine programming assignments (as described in level II) under close supervision.

In addition, as training and to assist higher level staff, *may perform* elementary fact finding concerning a specified work process, e.g., a file of clerical records which is treated as a unit (invoices, requisitions, or purchase orders, etc.); reports findings to higher level staff.

Receives classroom and/or on-the-job training in computer programming concepts, methods, and techniques and in the basic requirements of the subject matter area. May receive training in elementary fact-finding. Detailed, step-by-step instructions are given for each task and any deviation must be authorized by a supervisor. Work is closely monitored in progress and reviewed in detail upon completion.

## Computer Programmer II

At this level, initial assignments are designed to develop competence in applying established programming procedures to routine problems. Performs routine programming assignments that do not require skilled background experience but do require knowledge of established programming procedures and data processing requirements. Works according to clear-cut and complete specifications. The data are refined and the format of the final product is very similar to that of the input or is well defined when significantly different, i.e., there are few, if any, problems with interrelating varied records and outputs.

Maintains and modifies routine programs. Makes approved changes by amending program flow charts, developing detailed processing logic, and coding changes. Tests and documents modifications and writes operator instructions. May write routine new programs using prescribed specifications; may confer with EDP personnel to clarify procedures, processing logic, etc.

In addition, and as continued training, may evaluate simple interrelationships in the immediate programming area, e.g., whether a contemplated change in one part of a simple program would cause unwanted results in a related part; confers with user representatives to gain an understanding of the situation sufficient to formulate the needed change; and implements the change upon approval of the supervisor or higher level staff. The incumbent is provided with charts, narrative descriptions of the functions performed, an approved statement of the product desired (e.g., a change in a local establishment report), and the inputs, outputs, and record formats.

Reviews objectives and assignment details with higher level staff to insure thorough understanding; uses judgment in selecting among authorized procedures and seeks assistance when guidelines are inadequate, significant deviations are proposed, or when unanticipated problems arise. Work is usually monitored in progress; all work is reviewed upon completion for accuracy and compliance with standards.

## Computer Programmer III

As a fully qualified computer programmer, applies standard programming procedures and detailed knowledge of pertinent subject matter (e.g., work processes, governing rules, clerical procedures, etc.) in a programming area such as: a record keeping operation (supply, personnel and payroll, inventory, purchasing, insurance payments, depositor accounts, etc.); a well-defined statistical or scientific problem; or other standardized operation or problem. Works according to approved statements of

requirements and detailed specifications. While the data are clear cut, related, and equally available, there may be substantial interrelationships of a variety of records and several varied sequences of formats are usually produced. The programs developed or modified typically are linked to several other programs in that the output of one becomes the input for another. Recognizes probable interactions of other related programs with the assigned program(s) and is familiar with related system software and computer equipment. Solves conventional programming problems. (In small organizations, may maintain programs which concern or combine several operations, i.e., users, or develop programs where there is one primary user and the others give input.)

Performs such duties as: develops, modifies, and maintains assigned programs; designs and implements modifications to the interrelation of files and records within programs in consultation with higher level staff; monitors the operation of assigned programs and responds to problems by diagnosing and correcting errors in logic and coding; and implements and/or maintains assigned portions of a scientific programming project, applying established scientific programming techniques to well-defined mathematical, statistical, engineering, or other scientific problems usually requiring the translation of mathematical notation into processing logic and code. (Scientific programming includes assignments such as: using predetermined physical laws expressed in mathematical terms to relate one set of data to another; the routine storage and retrieval of field test data; and using procedures for real-time command and control, scientific data reduction, signal processing, or similar areas.) Tests and documents work and writes and maintains operator instructions for assigned programs. Confers with other EDP personnel to obtain or provide factual data.

In addition, may carry out fact-finding and programming analysis of a single activity or routine problem, applying established procedures where the nature of the program, feasibility, computer equipment, and programming language have already been decided. May analyze present performance of the program and take action to correct deficiencies based on discussion with the user and consultation with and approval of the supervisor or higher level staff. May assist in the review and analysis of detailed program specifications and in program design to meet changes in work processes.

Works independently under specified objectives; applies judgment in devising program logic and in selecting and adapting standard programming procedures; resolves problems and deviations according to established practices; and obtains advice where precedents are unclear or not available. Completed work is reviewed for conformance to standards, timeliness, and efficiency. May guide or instruct lower level programmers; may supervise technicians and others who assist in specific assignments.

*OR*

Works on complex programs (as described in level IV) under close direction of higher level staff or supervisor. May assist higher level staff by independently performing moderately complex tasks assigned, and performing complex tasks under close supervision.

## Computer Programmer IV

Applies expertise in programming procedures to complex programs; recommends the redesign of programs, investigates and analyzes feasibility and program requirements, and develops programming specifications. Assigned programs typically affect a broad multi-user computer system which meets the data processing needs of a broad area (e.g., manufacturing, logistics planning, finance management, human resources, or material management) or a computer system for a project in engineering, research, accounting, statistics, etc. Plans the full range of programming actions to produce several interrelated but different products from numerous and diverse data elements which are usually from different sources; solves difficult programming problems. Uses knowledge of pertinent system software, computer equipment, work processes, regulations, and management practices.

Performs such duties as: develops, modifies, and maintains complex programs; designs and implements the interrelations of files and records within programs which will effectively fit into the overall design of the project; working with problems or concepts, develops programs for the solution to major scientific computational problems requiring the analysis and development of logical or mathematical descriptions of functions to be programmed; and develops occasional special programs, e.g., a critical path analysis program to assist in managing a special project. Tests, documents, and writes operating instructions for all work. Confers with other EDP personnel to secure information, investigate and resolve problems, and coordinate work efforts.

In addition, performs such programming analysis as: investigating the feasibility of alternate program design approaches to determine the best balanced solution, e.g., one that will best satisfy immediate user needs, facilitate subsequent modification, and conserve resources; on typical maintenance projects and smaller scale, limited new projects, assisting user personnel in defining problems or needs and determining work organization, the necessary files and records, and their interrelation with the program; or on large or more complicated projects, participating as a team member along with other EDP personnel and users and having responsibility for a portion of the project.

Works independently under overall objectives and direction, apprising the supervisor about progress and unusual complications. Modifies and adapts precedent solutions and proven approaches. Guidelines include constraints imposed by the related programs with which the incumbent's programs must be meshed. Completed work is reviewed for timeliness, compatibility with other work, and effectiveness in meeting requirements.

May function as team leader or supervise a few lower level programmers or technicians on assigned work.

## Computer Programmer V

At level V, workers are typically either supervisors, team leaders, staff specialists, or consultants. Some programming analysis is included as a part of the programming assignment. Supervision and review are similar to level IV.

*Typical duties and responsibilities* include one or more of the following:

1. *In a supervisory capacity*, plans, develops, coordinates, and directs a large and important programming project (finance, manufacturing, sales/marketing, human resources, or other broad area) or a number of small programming projects with complex features. A substantial portion of the work supervised (usually 2 to 3 workers) is comparable to that described for level IV. Supervises, coordinates, and reviews the work of a small staff, normally not more than 15 programmers and technicians; estimates personnel needs and schedules, assigns and reviews work to meet completion date. These day-to-day supervisors evaluate performance, resolve complaints, and make recommendations on hiring and firing. They do not make final decisions on curtailing projects, reorganizing, or reallocating resources.
2. *As team leader, staff specialist, or consultant*, defines complex scientific problems (e.g., computational) or other highly complex programming problems (e.g., generating overall forecasts, projections, or other new data fields widely different from the source data or untried at the scale proposed) and directs the development of computer programs for their solution; or designs improvements in complex programs where existing precedents provide little guidance, such as an interrelated group of mathematical/statistical programs which support health insurance, natural resources, marketing trends, or other research activities. In conjunction with users (scientists or specialists), defines major problems in the subject-matter area. Contacts co-workers and user personnel at various locations to plan and coordinate project and gather data; devises ways to obtain data not previously available; arbitrates differences between various program users when conflicting requirements arise. May perform simulation studies to determine effects of changes in computer equipment or system software or may assess the feasibility and soundness of proposed programming projects which are novel and complex.

Typically develops programming techniques and procedures where few precedents exist. May be assisted on projects by other programmers or technicians.

## COMPUTER SYSTEMS ANALYST

(1712: Computer systems analyst)

Analyzes business or scientific problems for resolution through electronic data processing. Gathers information from users, defines work problems, and, if feasible, designs a system of computer programs and procedures to resolve the problems. Develops complete specifications to enable computer programmers to prepare required programs: analyzes subject-matter operations to be automated; specifies number and types of records, files, and documents to be used and outputs to be produced; prepares work diagrams and data flow charts; coordinates tests of the system and participates in trial runs of new and revised systems; and recommends computer equipment changes to obtain more effective operations. May also write the computer programs.

*Excluded are:*

- a. Trainees who receive detailed directives and work plans, select authorized procedures for use in specific situations, and seek assistance for deviations and problems;
- b. Positions which require a bachelor's degree in a specific scientific field (other than computer science), such as an engineering, mathematics, physics, or chemistry degree; however, positions are potential matches where the required degree may be from any of several possible scientific fields;
- c. Computer programmers who write computer programs and solve user problems not requiring systems modification;
- d. Workers who primarily analyze and evaluate problems concerning *computer equipment* or its selection or utilization; and
- e. Computer systems programmers or analysts who primarily write programs or analyze problems concerning the system software, e.g., operating systems, compilers, assemblers, system utility routines, etc., which provide basic services for the use of all programs and provide for the scheduling or the execution of programs; however, positions matching this definition may develop a "total package" which includes not only analyzing work problems to be processed but also selecting the computer equipment and system software required.

Positions are classified into levels on the basis of the following definitions.

## Computer Systems Analyst I

At this level, *initial assignments* are designed to expand practical experience in applying systems analysis techniques and procedures. Provides *several phases* of the required systems analysis where the nature of the system is predetermined. Uses established fact finding approaches, knowledge of pertinent work processes and procedures, and familiarity with related computer programming practices, system software, and computer equipment.

Carries out fact finding and analysis as assigned, usually of a single activity or a routine problem; applies established procedures where the nature of the system, feasibility, computer equipment, and programming language have already been decided; may assist a higher level systems analyst by preparing the detailed specifications required by computer programmers from information developed by the higher level analyst; may research routine user problems and solve them by modifying the existing system when the solutions follow clear precedents. When cost and deadline estimates are required, results receive close review.

The supervisor defines objectives, priorities, and deadlines. Incumbents work independently; adapt guides to specific situations; resolve problems and deviations according to established practices; and obtain advice where precedents are unclear or not available. Completed work is reviewed for conformance to requirements, timeliness, and efficiency. May supervise technicians and others who assist in specific assignments.

## Computer Systems Analyst II

Applies systems analysis and design skills in an area such as a record keeping or scientific operation. A system of several varied sequences or formats is usually developed, e.g., systems for maintaining depositor accounts in a bank, maintaining accounts receivable in a retail establishment, maintaining inventory accounts in a manufacturing or wholesale establishment, or processing a limited problem in a scientific project. Requires competence in most phases of system analysis and knowledge of pertinent system software and computer equipment and of the work processes, applicable regulations, work load, and practices of the assigned subject-matter area. Recognizes probable interactions of related computer systems and predicts impact of a change in assigned system.

Reviews proposals which consist of objectives, scope, and user expectations; gathers facts, analyzes data, and prepares a project synopsis which compares alternatives in terms of cost, time, availability of equipment and personnel, and recommends a course of action; and upon approval of synopsis, prepares specifications for development of computer programs. Determines and resolves data processing problems and coordinates

the work with program, users, etc.; orients user personnel on new or changed procedures. May conduct special projects such as data element and code standardization throughout a broad system, working under specific objectives and bringing to the attention of the supervisor any unusual problems or controversies.

Works independently under overall project objectives and requirements; appraises supervisor about progress and unusual complications. Guidelines usually include existing systems and the constraints imposed by related systems with which the incumbent's work must be meshed. Adapts design approaches successfully used in precedent systems. Completed work is reviewed for timeliness, compatibility with other work, and effectiveness in meeting requirements. May provide functional direction to lower level assistants on assigned work.

OR

Works on a segment of a complex data processing scheme or broad system, as described for computer systems analyst level III. Works independently on routine assignments and receives instructions and guidance on complex assignments. Work is reviewed for accuracy of judgment, compliance with instructions, and to insure proper alignment with the overall system.

### Computer Systems Analyst III

Applies systems analysis and design techniques to complex computer systems in a broad area such as manufacturing; finance management; engineering, accounting, or statistics; logistics planning; material management, etc. Usually, there are multiple users of the system; however, there may be complex one-user systems, e.g., for engineering or research projects. Requires competence in all phases of systems analysis techniques, concepts, and methods and knowledge of available system software, computer equipment, and the regulations, structure, techniques, and management practices of one or more subject-matter areas. Since *input data usually come from diverse sources*, is responsible for recognizing probable conflicts and integrating diverse data elements and sources. Produces innovative solutions for a variety of complex problems.

Maintains and modifies complex systems or develops new subsystems such as an integrated production scheduling, inventory control, cost analysis, or sales analysis record in which every item of each type is automatically processed through the full system of records. Guides users in formulating requirements; advises on alternatives and on the implications of new or revised data processing systems; analyzes resulting user project proposals, identifies omissions and errors in requirements, and conducts feasibility studies; recommends optimum approach and develops system design for approved projects. Interprets information and informally arbitrates between system users when conflicts exist. May serve as lead analyst in a design subgroup, directing and integrating the work of one or two lower level analysts, each responsible for several programs.

Supervision and nature of review are similar to level II; existing systems provide precedents for the operation of new subsystems.

### Computer Systems Analyst IV

Applies expert systems analysis and design techniques to complex *system development* in a specialized design area and/or resolves unique or unyielding problems in existing complex systems by *applying new technology*. Work requires a broad knowledge of data sources and flow, interactions of existing complex systems in the organization, and the capabilities and limitations of the systems software and computer equipment. Objectives and overall requirements are defined in the organization's EDP policies and standards; the primary constraints typically are those imposed by the need for compatibility with existing systems or processes. Supervision and nature of review are similar to levels II and III.

*Typical duties and responsibilities* include one or more of the following:

1. As team or project leader, provides systems design *in a specialized and highly complex design area*, e.g., interrelated business statistics and/or projections, scientific systems, mathematical models, or similar unprecedented computer systems. *Establishes the framework of new computer systems* from feasibility studies to post-implementation evaluation. Devises new sources of data and develops new approaches and techniques for use by others. May serve as technical authority for a design area. At least one or two team members perform work at level III; one or two team members may also perform work as a level IV staff specialist or consultant as described below.
2. As staff specialist or consultant, with expertise in a specialty area (e.g., data security, telecommunications, systems analysis techniques, EDP standards development, etc.), plans and conducts analyses of unique or unyielding problems in a broad system. Identifies problems and specific issues in assigned area and prepares overall project recommendations from an EDP standpoint including feasible advancements in EDP technology; upon acceptance, determines a design strategy that anticipates directions of change; designs and monitors necessary testing and implementation plans. Performs work such as: studies broad areas of projected work processes which cut across the organization's established EDP systems; conducts continuing review of computer technological developments applicable to system design and prepares long range forecasts; develops EDP standards where new and improved approaches are needed; or develops recommendations for a management information system where new concepts are required.

### Computer Systems Analyst V

*As a top technical expert, develops broad unprecedented computer systems and/or conducts critical studies central to the success of large organizations having extensive*

*technical or highly diversified computer requirements.* Considers such requirements as broad organization policy, and the diverse user needs of several organizational levels and locations. Works under general administrative direction.

*Typical duties and responsibilities* include one or more of the following:

1. As team or project leader, guides the development of broad unprecedented computer systems. The information requirements are complex and voluminous. Devises completely new ways to locate and develop data sources; establishes new factors and criteria for making subject-matter decisions. Coordinates fact finding, analysis, and design of the system and applies the most recent developments in data processing technology and computer equipment. Guidelines consist of state-of-the-art technology and general organizational policy. *At least one team member performs work at level IV.*
2. As staff specialist or consultant, is a recognized leader and authority in a large organization (as defined above). Performs at least two of the following: a) has overall responsibility for evaluating the significance of technological advancement and developing EDP standards where new and improved approaches are needed, e.g., programming techniques; b) conceives and plans exploratory investigations critical to the overall organization where useful precedents do not exist and new concepts are required, e.g., develops recommendations regarding a comprehensive management information system; or c) evaluates existing EDP organizational policy for effectiveness, devising and formulating changes in the organization's position on broad policy issues. May be assisted on individual projects by other analysts.

## **COMPUTER SYSTEMS ANALYST SUPERVISOR/MANAGER**

(1712: Computer systems analyst)

Supervises three or more employees, two of whom perform systems analysis. Work requires substantial and recurring use of systems analysis skills in directing staff. May also supervise programmers and related clerical and technical support personnel.

*Excluded are:*

- a. Positions also having significant responsibility for the management or supervision of functional areas (e.g., system software development, data entry, or computer operations) *not* related to the Computer Systems Analyst and Computer Programmer definitions;
- b. Supervisory positions having base levels below Computer Systems Analyst II or Computer Programmer IV; and
- c. Managers who supervise two or more subordinates performing at Computer Systems Analyst Supervisor/Manager level IV.

## **Classification by level**

Supervisory jobs are matched at one of four levels according to two factors: a) base level of work supervised; and b) level of supervision. The table following the explanations of these factors indicates the level of the supervisor for each combination of factors.

### **Base level of work**

The base level of work is the highest level of *nonsupervisory* work under the direct or indirect supervision of the supervisor/manager which (when added to the nonsupervisory levels above it) represents at least 25 percent of the total nonsupervisory, nonclerical staff and at least two of the full-time positions supervised.

To determine the base level of nonsupervisory, nonclerical work: 1) array the positions by level of difficulty; 2) determine the number of workers in each position; and 3) count down from the highest level (if necessary) until at least 25 percent of the total nonsupervisory, nonclerical staff are represented.

### **Level of supervision**

Supervisors and managers should be matched at one of the three LS levels below which best describes their supervisory responsibility.

LS-1 Plans, coordinates, and evaluates the work of a small staff, normally not more than 15 programmers, systems analysts, and technicians; estimates personnel needs and schedules, assigns, and reviews work to meet completion date; interviews candidates for own unit and recommends hires, promotions, or reassignments; resolves complaints and refers group grievances and more serious unresolved complaints to higher level supervisors; may reprimand employees.

LS-2 Directs a sizable staff (normally 15-30 employees), typically divided into sub-units controlled by subordinate supervisors; advises higher level management on work problems of own unit and the impact on broader programs; collaborates with heads of other units to negotiate and/or coordinate work changes; makes decisions on work or training problems presented by subordinate supervisors; evaluates subordinate supervisors and reviews their evaluations of other employees; selects nonsupervisors (higher level approval is virtually assured) and recommends supervisory selections; hears group grievances and serious or unresolved complaints. May shift resources among projects and perform long range budget planning.

*Note:* In rare instances, supervisory positions responsible for directing a sizable staff (e.g., 20-30 employees) may not have subordinate supervisors, but *have all other LS-2 responsibilities*. Such positions should be matched to LS-2.

LS-3 Directs two subordinate supervisory levels and the work force managed typically includes substantially more than 30 employees. Makes major decisions and recommendations (listed below) which have a direct, important, and substantial effect on own organization and work. Performs *at least three* of the following:

- decides what programs and projects should be initiated, dropped, expanded, or curtailed;
- determines long range plans in response to program changes, evaluates program goals, and redefines objectives;
- determines changes to be made in organizational structure, delegation of authority, coordination of units, etc.;
- decides what compromises to make in operations in view of public relations implications and need for support from various groups;
- decides on the means to substantially reduce operating costs without impairing overall operations; justifies major equipment expenditures; and
- resolves differences between key subordinate officials; decides, or significantly affects final decisions, on personnel actions for supervisors and other key officials.

**CRITERIA FOR MATCHING COMPUTER SYSTEMS ANALYST SUPERVISORS/MANAGERS**

Base level of nonsupervisory job(s)		Level of supervisor		
Matched in the Computer Programmer Definition	Matched in the Computer Systems Analyst Definition	LS-1	LS-2	LS-3
IV	II	I	II	III
V	III	II	III	IV
-	IV	III	IV	Exclude
-	V	IV	Exclude	Exclude*

**PERSONNEL SPECIALIST**

(143: Personnel, training, and labor relations specialist)

Plans, administers, advises on, or performs professional work in *one or more* personnel specialties, such as:

*Job Analysis/Evaluation:* Analyzing, evaluating, and defining occupations or positions based on duties, responsibilities, and qualification requirements in order to establish or maintain a framework for equitable compensation.

*Salary and Benefit Administration:* Analyzing and evaluating compensation practices, participating in compensation surveys, and recommending pay and benefit adjustments.

*Recruitment and Placement:* Recruiting applicants through various sources (e.g., schools, colleges, employment agencies, newspapers, professional societies); evaluating applicants using qualification ratings, test scores, interviews, and reference checks; and recommending applicant placement.

*Employee Development:* Planning, evaluating, and administering employee training and development programs to achieve both organizational goals and personnel management objectives.

*Employee Relations and Services:* Providing guidance, advice, and assistance on such matters as employee services and benefits; management-employee communications; performance appraisals, grievances and appeals; equal employment opportunity; and employee conduct and discipline.

*Equal Employment Opportunity:* Planning, evaluating, and administering equal opportunity provisions.

*Labor Relations:* Advising and assisting management on a variety of labor relations matters, and negotiating and administering labor agreements on behalf of management.

*In addition to the technical responsibilities described in levels I through VI, personnel specialists may also manage personnel functions and supervise subordinate staff. At levels I and II, the subordinate staff typically consists of clerks and paraprofessionals; level III may coordinate the work of lower level specialists; and levels IV and above may supervise subordinate specialists. Positions which are primarily supervisory, rather than technical, in nature (i.e., they are not readily matchable to the level-to-level distinctions in this definition) should be matched to the personnel supervisor/manager definition.*

This broad, generic occupation includes specialists: (1) working in personnel *operations*; (2) reviewing and evaluating the quality of personnel programs; and (3) developing and revising personnel programs and procedures.

*Excluded are:*

- a. Positions matched to the personnel supervisor/manager definition;
- b. Directors of personnel, who service more than 250 employees and have significant responsibility for administering all three of the following functions: Job evaluation, employment and placement, and employee relations and services. In addition, workers in these excluded positions serve top management of their organization as *the* source of advice on personnel matters and problems;
- c. Clerical and paraprofessional positions;
- d. Labor relations specialists who negotiate with labor unions as the *principal* representative of their *overall* organization;
- e. Specialists with matchable titles (e.g., labor relations specialist, equal opportunity specialist) which are *not* part of the establishment's personnel program;
- f. Specialists in other occupations (e.g., nursing, organizational development, payroll, safety and health, security, and training), *even if* these positions are part of the establishment's personnel program;
- g. Positions not requiring: (1) three years of administrative, technical, or substantive clerical experience; (2) a bachelor's degree in any field; or (3) any equivalent combination of experience and education yielding basic skills in problem analysis and communication; and
- h. Positions employed by personnel supply service establishments (S.I.C. 736).

### **Classification by level**

Establishment positions which meet the above criteria are matched at one of six levels. *Primary leveling concepts* are presented for each of the three options: (1) operations, (2) program evaluation, and (3) program development. These leveling *concepts take precedent over typical duties and responsibilities* in determining the level of a match. Job duties that are "moderately complex" in one establishment may be "procedural" in another establishment.

### **Personnel Specialist I (operations only)**

As a trainee, receives classroom and/or on-the-job training in the principles, procedures, and regulations of the personnel program and in the programs, policies, and objectives of the employing organization. Assignments provide experience in applying

personnel management principles, procedures and techniques, while performing a variety of uncomplicated tasks under close supervision.

### **Personnel Specialist II**

*Operations.* Performs *standard procedural duties* which require the use of personnel management principles and techniques to identify and analyze personnel problems. Provides limited advice to management, such as informing departmental supervisors of typical duty patterns which comprise an occupational level or of types of candidates available for a particular type of job. Receives specific instructions with each new assignment.

*Program evaluation and development.* Assists higher level specialists in preliminary phases of evaluation or development. Receives increasingly difficult assignments under close supervisory guidance and review.

*Typical duties include:* analyzing and evaluating nonexempt jobs using standard procedures; participating in recruitment or compensation surveys for nonexempt jobs; rating applicants using established guides; explaining established policies, procedures, or regulations to employees or management; and performing limited tasks to assist higher level specialists in employee development, employee relations, and labor relations programs.

### **Personnel Specialist III**

*Operations.* Performs moderately complex assignments following established policies and guidelines. Work requires experience both in a personnel specialty and in the organization serviced. Advises management on the solution to personnel problems of limited scope for which there are precedents. Renders advice concerning own specialty, but discusses impact on other personnel areas. Works independently under specified objectives; closer supervision is provided for complex assignments, precedent-setting actions, and actions that impact either other functional areas or key working relationships.

*Program evaluation and development.* Assists higher level specialists or managers by studying less complex aspects of personnel programs (e.g., merit promotions, incentive awards), resolving problems of average difficulty, and reporting findings to be included in evaluation reports.

*Typical duties include:* analyzing, evaluating, and defining both exempt and nonexempt jobs in various occupational groups using established procedures; participating in surveys of broad compensation areas; recruiting and screening applicants for both exempt and nonexempt jobs, checking references and recommending placement; assisting in identifying training needs and arranging training, initiating personnel actions or awards,

and interpreting established personnel policy, regulations, and precedents; or participating in preparing for and conducting labor negotiations.

### Personnel Specialist IV

*Operations.* Applies to three different work situations. In situation (1), specialists use technical knowledge, skills, and judgment to solve complex technical problems. Advisory services to management are similar to those described at level III. Situation (2) combines typical level III operating skills with comprehensive management advisory services. Advisory services require high technical skills, along with broad personnel knowledge, to solve problems from a total personnel management perspective. In situations (1) and (2), specialists plan and complete work following established program goals and objectives. Their judgments and recommendations are relied on for management decisions.

Situation (3) applies to specialists who are *solely* responsible for performing moderately complex assignments (as described in level III) and for rendering *final decisions* on assigned personnel matters under general administrative supervision. Responsibilities include planning and scheduling work and coordinating and integrating program(s) with other personnel, management, and operational activities.

*Program evaluation.* Conducts on-site review of personnel actions in several organizational units; determines factual basis for personnel actions, evaluates actions for consistency with established guidelines, and reports significant findings.

*Program development.* Independently develops supplemental guidelines for existing procedures.

*Typical duties include:* analyzing, evaluating, and defining difficult exempt jobs, i.e., those in research and development, administration, law, and computer science; planning and conducting broad compensation surveys and recommending pay and benefit adjustments; developing training plans and procedures for an organizational segment; participating in complex employee-management relations issues such as controversies, poor morale, and high turnover; or developing plans and procedures for labor negotiations in a moderately complex organization.

### Personnel Specialist V

*Operations.* Applies to two different work situations. In situation (1), specialists solve unusually complex and unprecedented problems which require creative solutions. In situation (2), specialists are assigned complex technical problems (as described in level IV - situation (1) combined with responsibility for providing comprehensive advice to management. Management advisory services are complicated by jobs and organizations that are complex, new, or dynamic, and by the abstract nature of the work processes. Supervision and guidance relate largely to program goals and time schedules.

Specialists are authorized to make decisions for their organizations and consult with their supervisors concerning unusual problems and developments.

*Program evaluation.* Independently evaluates personnel programs to determine the degree to which they are achieving goals and objectives, ascertaining weaknesses in programs and guidelines, and making recommendations for improvements. Conclusions are reported to top management.

*Program development.* Applies expertise in modifying procedures and guidelines. Projects are usually narrow in scope, i.e., limited to an occupational field or to a specific program area. May have full technical responsibility for personnel projects, studies, policies, or programs that are less complex than described at level VI.

*Typical duties include:* Participating in the development of personnel policies and procedures; analyzing, evaluating, and defining unusually difficult jobs, e.g., those in emerging occupations which lack applicable guidelines, or in organizations so complex and dynamic that it is difficult to determine the extent of a position's responsibility; recruiting candidates for one-of-a-kind jobs; participating in employee-management relations where the underlying issues are difficult to identify; planning and administering a comprehensive employee development program; or performing labor relations assignments for a large conglomerate.

### Personnel Specialist VI

*Program evaluation.* Applies to three different work situations. In situation (1), specialists evaluate the personnel management program of large, complex organizations. Such evaluations require broad understanding and sensitivity both to the interrelationships between different personnel programs and to complex organizational and management relationships. In situation (2), specialists provide advice to management in improving personnel programs in unusually complex organizations. Such expertise extends beyond knowledge of guidelines, precedents, and technical principles into areas of program management and administration. In situation (3), specialists serve as evaluation experts assigned to uniquely difficult and sensitive personnel problems, e.g., solutions are unusually controversial; specialists are required to persuade and motivate key officials to change major personnel policies or procedures; or problems include serious complaints where facts are vague.

*Program development.* Specialists have full technical responsibility for unusually complex personnel projects, studies, policies, or programs. The scope and impact of these assignments are broad and are of considerable importance to organizational management.

Supervision received is essentially administrative, with assignments given in terms of broad general objectives and limits.

## PERSONNEL SUPERVISOR/MANAGER

(143: Personnel, training, and labor relations specialist)

Supervises three or more personnel specialists and/or clerks and paraprofessionals. Although the work is supervisory in nature, it requires substantial knowledge of personnel policies, procedures, and practices.

*Excluded are:*

- a. Positions matched to the personnel specialist definition:
- b. Directors of personnel, who service more than 250 employees and have significant responsibility for administering all three of the following functions: Job evaluation, employment and placement, and employee relations and services. In addition, workers in these excluded positions serve top management of their organization as *the* source of advice on personnel matters and problems;
- c. Labor relations positions which are primarily responsible for negotiating with labor unions as the principal representative of their *overall* organization;
- d. Supervisory positions having both a base level below personnel specialist III *and* requiring technical expertise *below* personnel specialist IV; and
- e. Positions also having significant responsibility for functional areas beyond personnel (e.g., payroll, purchasing, or administration).

### Classification by Level

Supervisory jobs are matched at one of five levels according to two factors: a) base level of work supervised, and b) level of supervision. The table following the explanations of these factors indicates the level of the supervisor for each combination of factors.

### Base Level of Work

Conceptually, the base level of work is the highest level of *nonsupervisory* work under the direct or indirect supervision of the supervisor/manager which (when added to the nonsupervisory levels above it) represents at least 25 percent of the total nonsupervisory, nonclerical staff and at least *two* of the full-time positions supervised.

To determine the base level of nonsupervisory, nonclerical work: 1) array the positions by level of difficulty; 2) determine the number of workers in each position; and 3) count down from the highest level (if necessary) until at least 25 percent of the total nonsupervisory, nonclerical staff are represented.

Establishment supervisory positions matched in the personnel specialist series should be counted as "non-supervisory" in computing the base level for personnel supervisor/manager matches.

Due to the unique nature of this particular occupation series, the mechanics of the base level concept are often not applicable in determining the appropriate job level of a personnel supervisor/manager. See Alternative Criteria For Matching Personnel Supervisors/Managers at the end of this definition for assistance in assuring correct job matches.

### Level of Supervision

Supervisors and managers should be matched at one of the three LS levels below which best describes their supervisory responsibility.

LS-1 Plans, coordinates, and evaluates the work of a small staff, normally not more than 10 personnel specialists, paraprofessionals, and clerks; estimates staffing needs for personnel unit and schedules, assigns, and reviews work to meet completion date; interviews candidates for own unit and recommends hires, promotions, or reassignments; and resolves complaints, referring group grievances and more serious unresolved complaints to higher level supervisors; may reprimand employees.

LS-2 Directs a sizable staff (normally 10-20 employees), typically divided into sub-units controlled by subordinate supervisors; advises higher level management on work problems of own unit and the impact on broader programs; collaborates with heads of other units to negotiate and/or coordinate work changes; makes decisions on work or training problems presented by subordinate supervisors; evaluates subordinate supervisors and reviews their evaluations of their employees; selects nonsupervisors (higher level approval is virtually assured) and recommends supervisory selections; and hears group grievances and serious or unresolved complaints. May shift resources among projects and perform long range budget planning.

*Note:* In *rare instances*, supervisory positions responsible for directing a sizable staff (e.g., 10-20 professional employees) may not have subordinate supervisors, but *have all other LS-2 responsibilities*. Such positions should be matched to LS-2.

LS-3 Directs two subordinate supervisory levels and the work force managed typically includes substantially more than 20 employees. Makes major decisions and recommendations (listed below) which have a direct, important, and substantial effect on own organization and work. Performs *at least three* of the following:

- decides what programs and projects should be initiated, dropped, expanded, or curtailed;
- determines long range plans in response to program changes, evaluates program goals, and redefines objectives;
- determines changes to be made in organizational structure, delegation of authority, coordination of units, etc.;
- decides what compromises to make in program operations in view of public relations implications and need for support from various groups;
- decides on the means to substantially reduce program operating costs without impairing overall operations; justifies major equipment expenditures; and
- resolves differences between key subordinate officials; decides, or significantly affects final decisions, on personnel actions for subordinate supervisors and other key subordinates.

**Table B-2. Criteria for matching personnel supervisors/managers**

Base level of nonsupervisory job(s) matched in the personnel specialist definition	Level of supervisor		
	LS-1	LS-2	LS-3
III	I	II	III
IV	II	III	IV
V	III	IV	V
VI	IV	V	Exclude

**Table B-3. Level equivalents of personnel professional occupations**

Personnel Specialist	Personnel Supervisor/Manager	Director of Personnel
I		
II		
III		
IV	I	I
V	II	II
VI	III	III
	IV	IV
	V	V

**Alternative criteria for matching Personnel Supervisor/Managers**

- Base level artificially low.* The leanness of subordinate staff often combines with the appropriate LS level to produce a level of supervisor/manager which is below the supervisor/manager's level of technical expertise, as measured by the personnel specialist definition. In these instances, raise the level of the supervisor/manager match to correlate to the equivalent level of personnel specialist (see chart above).

**TAX COLLECTOR**

(1139: Officials and administrators, public administration, not elsewhere classified)

Collects *delinquent* taxes, canvasses for unreported taxes due, secures delinquent tax returns, and counsels taxpayers on filing and paying obligations. Tax collection typically begins after office examination of tax returns and financial records and subsequent notices of tax liability fail to collect full payment. Obtains and analyzes financial information, selects appropriate administrative or judicial remedy, and liquidates tax liability through such measures as compromise, installment agreements, and seizure and sale of property or other assets. Establishes liability for and imposes various penalties under State or County revenue codes. Serves summonses, takes testimony under oath, and testifies in court.

Work typically requires at least three years experience in general business or financial practices or the equivalent in education and experience combined. Level I is primarily for training and development. Level II is the full working level for tax collectors who follow standard procedures and level III includes specialists, team leaders, and quasi-supervisors solving moderately complex tax collection problems.

Tax collection involves two overlapping functions - *returns investigation* and *collection of delinquent taxes*. Returns investigations involve analyzing financial records, examining taxpayer's situation or business operations, and counseling taxpayers on statutory requirements and preparation of delinquent returns. Tax collectors primarily performing returns investigation work are not typically found above level II.

Collection of delinquent taxes involves analyzing a taxpayer's financial worth and ability to pay. In resolving delinquency, tax collectors evaluate (or use appraisers to evaluate): market value of assets; equity shares of other creditors; liens and ownership rights; taxpayer earning capacity; and the potential of taxpayer businesses. If bankruptcy is imminent, tax collectors file notices of lien to give their agency priority over subsequent creditors. If necessary, collectors take action for seizure and make arrangements for selling property. However, before resorting to enforced collection procedures, they may recommend alternatives such as installment payments, appointing escrow agents, or accepting collateral or mortgage arrangements to protect their agency's equity.

Excluded are:

- a. Tax collection supervisors. Incumbents in these full supervisory positions typically assign, coordinate, and review work; estimate personnel needs and schedules; evaluate performance; resolve complaints; and make recommendations for hiring and firing; and
- b. Tax auditors responsible for determining taxpayer liability.

### Tax Collector I

Receives formal training in: internal revenue laws, regulations, and procedures; collection enforcement techniques and laws of evidence and procedures; and business fundamentals. On-the-job training is provided and progressively broader assignments are given for development purposes. Most assignments are simple, although more difficult work such as that encountered at level II may be performed under close supervision and guidance. Individuals hired typically have 1-2 years experience in accounting, loan, collection, or related area or equivalent education in accounting, business law, or related field of study.

### Tax Collector II

Follows standard procedures to collect delinquent tax accounts and secure delinquent returns. Receives specific assignments from supervisor and works out details independently. Explains to tax debtors sanctions which may be used in the event of nonpayment and procedures for appealing tax bills or assessments. Compiles prescribed records and reports. Refers problems to supervisor which cannot be resolved by applying standard procedures.

### Tax Collector III

As a tax collection specialist, team leader, or quasi-supervisor, conducts moderately complex investigations to detect or verify suspected tax violations according to established rules, regulations, and tax ordinances. Selects methods of approach, resolves problems referred by lower level tax collectors, and applies all remedies available to collect delinquent taxes. Prepares comprehensive records and reports. Trains lower level tax collectors and assists them in uniformly enforcing tax laws. May also assign, review, and coordinate work of lower level tax collectors.

## Technical

### COMPUTER OPERATOR

(4612: Computer operator)

Monitors and operates the control console of either a mainframe digital computer or a group of minicomputers, in accordance with operating instructions, to process data. Work is characterized by the following:

- Studies operating instructions to determine equipment setup needed;
- Loads equipment with required items (tapes, cards, paper, etc.);
- Switches necessary auxiliary equipment into system;
- Starts and operates control console;
- Diagnoses and corrects equipment malfunctions;
- Reviews error messages and makes corrections during operation or refers problems;
- Maintains operating record.

May test run new or modified programs and *assist* in modifying systems or programs. Included within the scope of this definition are fully qualified computer operators, trainees working to become fully qualified operators, and lead operators providing *technical* assistance to lower level positions.

Excluded are:

- a. Workers operating small computer systems where there is little or no opportunity for operator intervention in program processing and few requirements to correct equipment malfunctions;
- b. Peripheral equipment operators and remote terminal or computer operators who do not run the *control console* of either a mainframe digital computer or a group of minicomputers;

- c. Workers using the computer for scientific, technical, or mathematical work when a knowledge of the subject matter is required; and
- d. Positions above level V; in addition to level V responsibilities, workers in these excluded positions use a knowledge of program language, computer features, and software systems to assist in (1) maintaining, modifying, and developing operating systems or programs; (2) developing operating instructions and techniques to cover problem situations; and (3) switching to emergency backup procedures.

### Computer Operator I

Receives on-the-job training in operating the control console (sometimes augmented by classroom training). Works under close personal supervision and is provided detailed written or oral guidance before and during assignments. As instructed, resolves common operating problems. May serve as an assistant operator working under close supervision or performing a portion of a more senior operator's work.

### Computer Operator II

Processes scheduled routines which present few difficult operating problems (e.g., infrequent or easily resolved error conditions). In response to computer output instructions or error conditions, applies standard operating or corrective procedure. Refers problems which do not respond to preplanned procedure. May serve as an assistant operator, working under general supervision.

### Computer Operator III

Processes a range of scheduled routines. In addition to operating the system and resolving common error conditions, diagnoses and acts on machine stoppage and error conditions not fully covered by existing procedures and guidelines (e.g., resetting switches and other controls or making mechanical adjustments to maintain or restore equipment operations). In response to computer output instructions or error conditions, may deviate from standard procedures if standard procedures do not provide a solution. Refers problems which do not respond to corrective procedures.

### Computer Operator IV

Adapts to a variety of nonstandard problems which require extensive operator intervention (e.g., frequent introduction of new programs, applications, or procedures). In response to computer output instructions or error conditions, chooses or devises a course of action from among several alternatives and alters or deviates from standard procedures if standard procedures do not provide a solution (e.g., reassigning equipment in order to work around faulty equipment or transfer channels); then refers problems.

Typically, completed work is submitted to users without supervisory review.

### Computer Operator V

Resolves a variety of difficult operating problems (e.g., making unusual equipment connections and rarely used equipment and channel configurations to direct processing through or around problems in equipment, circuits, or channels or reviewing test run requirements and developing unusual system configurations that will allow test programs to process without interfering with on-going job requirements). In response to computer output instructions and error conditions or to avoid loss of information or to conserve computer time, operator deviates from standard procedures. Such actions may materially alter the computer unit's production plans. May spend considerable time away from the control station providing technical assistance to lower level operators and assisting programmers, systems analysts, and subject matter specialists in resolving problems.

### DRAFTER

(372: Drafting occupation)

Performs drafting work, manually or using a computer, requiring knowledge and skill in drafting methods, procedures, and techniques. Prepares drawings of structures, facilities, land profiles, water systems, mechanical and electrical equipment, pipelines, duct systems, and similar equipment, systems, and assemblies. Drawings are used to communicate engineering ideas, designs, and information. Uses recognized systems of symbols, legends, shadings, and lines having specific meanings in drawings.

*Excluded are:*

- a. Designers using technical knowledge and judgment to conceive, plan, or modify designs;
- b. Illustrators or graphic artists using artistic ability to prepare illustrations;
- c. Office drafters preparing charts, diagrams, and room arrangements to depict statistical and administrative data;
- d. Cartographers preparing maps and charts primarily using a technical knowledge of cartography;
- e. Positions below level I; workers in these trainee positions either (1) trace or copy finished drawings under close supervision or (2) receive instruction in the elementary methods and techniques of drafting; and
- f. Supervisors.

Positions are classified into levels based on the following definitions.

### Drafter I

Prepares drawings of simple, easily visualized structures, systems, parts or equipment from sketches or marked-up prints. Selects appropriate templates or uses a compass and other equipment needed to complete assignments. Drawings fit familiar patterns and present few technical problems. Supervisor provides detailed instructions on new assignments, gives guidance when questions arise, and reviews completed work for accuracy. Typical assignments include:

From marked-up prints, revises the original drawings of a plumbing system by increasing pipe diameters.

From sketches, draws building floor plans, determining size, spacing, and arrangement of freehand lettering according to scale.

Draws simple land profiles from predetermined structural dimensions and reduced survey notes. Traces river basin maps and enters symbols to denote stream sampling locations, municipal and industrial waste discharges, and water supplies.

### Drafter II

Prepares various drawings of such units as construction projects or parts and assemblies, including various views, sectional profiles, irregular or reverse curves, hidden lines, and small or intricate details. Work requires use of most of the conventional drafting techniques and a working knowledge of the terms and procedures of the occupation. Makes arithmetic computations using standard formulas. Familiar or recurring work is assigned in general terms. Unfamiliar assignments include information on methods, procedures, sources of information, and precedents to follow. Simple revisions to existing drawings may be assigned with a verbal explanation of the desired results. More complex revisions are produced from sketches or specifications which clearly depict the desired product. Typical assignments include:

From a layout and manual references, prepares several views of a simple gear system. Obtains dimensions and tolerances from manuals and by measuring the layout.

Draws base and elevation views, sections, and details of new bridges or other structures; revises complete sets of roadway drawings for highway construction projects; or prepares block maps, indicating water and sewage line locations.

Prepares and revises detail and design drawings for such projects as the construction and installation of electrical or electronic equipment, plant

wiring, and the manufacture and assembly of printed circuit boards. Drawings typically include details of mountings, frames, guards, or other accessories; conduit layouts; or wiring diagrams indicating transformer sizes, conduit locations and mountings.

### Drafter III

Prepares complete sets of complex drawings which include multiple views, detail drawings, and assembly drawings. Drawings include complex design features that require considerable drafting skill to visualize and portray. Assignments regularly require the use of mathematical formulas to draw land contours or to compute weights, center of gravity, load capacities, dimensions, quantities of material, etc. Works from sketches, models, and verbal information supplied by an engineer, architect, or designer to determine the most appropriate views, detail drawings, and supplementary information needed to complete assignments. Selects required information from precedents, manufacturers' catalogs, and technical guides. Independently resolves most of the problems encountered. Supervisor or design originator may suggest methods of approach or provide advice on unusually difficult problems. Typical assignments include:

From layouts or sketches, prepares complete sets of drawings of test equipment to be manufactured. Several cross-sectional and subassembly drawings are required. From information supplied by the design originator and from technical handbooks and manuals, describes dimensions, tolerances, fits, fabrication techniques, and standard parts to use in manufacturing the equipment.

From electronic schematics, information as to maximum size, and manuals giving dimensions of standard parts, determines the arrangement and prepares drawings of printed circuit boards.

From precedents, drafting standards, and established practices, prepares final construction drawings for floodgates, navigation locks, dams, bridges, culverts, levees, channel excavations, dikes, and berms; prepares boring profiles, typical cross-sections, and land profiles; and delineates related topographical details as required.

Prepares final drawings for street paving and widening or for water and sewer lines having complex trunk lines; reduces field notes and calculates true grades. From engineering designs, lays out plan, profile and detail appurtenances required; notifies supervisor of conflicting details in design.

*Note:* Excludes drafters performing work of similar difficulty to that described at this level but who provide support for a variety of organizations which have widely differing functions or requirements.

## Drafter IV

Works closely with design originators, preparing drawings of *unusual, complex, or original designs which require a high degree of precision*. Performs unusually difficult assignments requiring considerable initiative, resourcefulness, and drafting expertise. Assures that anticipated problems in manufacture, assembly, installation, and operation are resolved by the drawings produced. Exercises independent judgment in selecting and interpreting data based on a knowledge of the design intent. Although working primarily as a drafter, may occasionally interpret general designs prepared by others to complete minor details. May provide advice and guidance to lower level drafters or serve as coordinator and planner for large and complex drafting projects.

## ENGINEERING TECHNICIAN

(371: Engineering technologist and technicians)

To be covered by these definitions, employees must meet *all* of the following criteria:

1. Provides semiprofessional technical support for engineers working in such areas as research, design, development, testing, or manufacturing process improvement.
2. Work pertains to electrical, electronic, or mechanical components or equipment.
3. Required to have some practical knowledge of science or engineering; some positions may also require a practical knowledge of mathematics or computer science.

*Included* are workers who prepare design drawings and assist with the design, evaluation, and/or modification of machinery and equipment.

*Excluded* are:

- a. Production and maintenance workers, including workers engaged in calibrating, repairing, or maintaining electronic equipment (see Maintenance Electronics Technician);
- b. Model makers and other craft workers;
- c. Quality control technicians and testers;
- d. Chemical and other nonengineering laboratory technicians;
- e. Civil engineering technicians and drafters;
- f. Positions (below level I) which are limited to simple tasks such as: Measuring items or regular shapes with a caliper and computing cross-sectional areas; identifying, weighing, and marking easy-to identify items; or recording simple instrument readings at specified intervals; and

- g. Engineers required to apply a professional knowledge of engineering theory and principles.

## Engineering Technician I

Performs simple routine tasks under close supervision or from detailed procedures. Work is checked in progress or on completion. Performs one or a combination of such typical duties as:

Assembles or installs equipment or parts requiring simple wiring, soldering, or connecting.

Performs simple or routine tasks or tests such as tensile or hardness tests; operates and adjusts simple test equipment; records test data.

Gathers and maintains specified records of engineering data such as tests, drawings, etc.; performs computations by substituting numbers in specified formulas; plots data and draws simple curves and graphs.

## Engineering Technician II

Performs standardized or prescribed assignments involving a sequence of related operations. Follows standard work methods on recurring assignments but receives explicit instructions on unfamiliar assignments. May become familiar with the operation and design of equipment and with maintenance procedures and standards. Technical adequacy of routine work is reviewed on completion; nonroutine work may also be reviewed in progress. Performs at this level one or a combination of such typical duties as:

Following specific instructions, assembles or constructs simple or standard equipment or parts; may service or repair simple instruments or equipment;

Conducts a variety of tests using established methods. Prepares test specimens, adjusts and operates equipment, and records test data, pointing out deviations resulting from equipment malfunction or observational errors.

Extracts engineering data from various prescribed but nonstandardized sources; processes the data following well-defined methods including elementary algebra and geometry; presents the data in prescribed form.

## Engineering Technician III

Performs assignments that are not completely standardized or prescribed. Selects or adapts standard procedures or equipment, using precedents that are not fully applicable. Receives initial instruction, equipment requirements, and advice from supervisor or

engineer as needed; performs recurring work independently; work is reviewed for technical adequacy or conformity with instructions. Performs at this level one or a combination of such typical duties as:

Constructs components, subunits, or simple models and adapts standard equipment. May troubleshoot and correct malfunctions requiring simple solutions.

Follows specific layout and scientific diagrams to construct and package simple devices and subunits of equipment.

Conducts various tests or experiments which may require minor modifications in test setups or procedures as well as subjective judgments in measurement; selects, sets up, and operates standard test equipment and records test data.

Extracts and compiles a variety of engineering data from field notes, manuals, lab reports, etc.; processes data, identifying errors or inconsistencies; selects methods of data presentation.

Assists in design modification by compiling data related to designs, specifications, and materials which are pertinent to specific items of equipment or component parts. Develops information concerning previous operational failures and modifications. Uses judgment and initiative to recognize inconsistencies or gaps in data and seek sources to clarify information.

### **Engineering Technician IV**

Performs nonroutine assignments of substantial variety and complexity, using operational precedents which are not fully applicable. Such assignments, which are typically parts of broader assignments, are screened to eliminate unusual design problems. May also plan such assignments. Receives technical advice from supervisor or engineer; work is reviewed for technical adequacy (or conformity with instructions). May be assisted by lower level technicians and have frequent contact with professionals and others within the establishment. Performs at this level one or a combination of such typical duties as:

Develops or reviews designs by extracting and analyzing a variety of engineering data. Applies conventional engineering practices to develop, prepare, or recommend schematics, designs, specifications, electrical drawings, and parts lists. Examples of designs include: detailed circuit diagrams; hardware fittings or test equipment involving a variety of mechanisms; conventional piping systems; and building site layouts.

Conducts tests or experiments requiring selection and adaptation or modification of a wide variety of critical test equipment and test procedures; sets up and operates equipment; records data, measures and records problems

of significant complexity that sometimes require resolution at a higher level; and analyzes data and prepares test reports.

Applies methods outlined by others to limited segments of research and development projects; constructs experimental or prototype models to meet engineering requirements; conducts tests or experiments and redesigns as necessary; and records and evaluates data and reports findings.

### **Engineering Technician V**

Performs nonroutine and complex assignments involving responsibility for planning and conducting a complete project of relatively limited scope or a portion of a larger and more diverse project. Selects and adapts plans, techniques, designs, or layouts. Contacts personnel in related activities to resolve problems and coordinate the work; reviews, analyzes, and integrates the technical work of others. Supervisor or professional engineer outlines objectives, requirements, and design approaches; completed work is reviewed for technical adequacy and satisfaction of requirements. May train and be assisted by lower level technicians. Performs at this level one or a combination of such typical duties as:

Designs, develops, and constructs major units, devices, or equipment; conducts tests or experiments; analyzes results and redesigns or modifies equipment to improve performance; and reports results.

From general guidelines and specifications (e.g., size or weight requirements), develops designs for equipment without critical performance requirements which are difficult to satisfy such as engine parts, research instruments, or special purpose circuitry. Analyzes technical data to determine applicability to design problems; selects from several possible design layouts; calculates design data; and prepares layouts, detailed specifications, parts lists, estimates, procedures, etc. May check and analyze drawings or equipment to determine adequacy of drawings and design.

Plans or assists in planning tests to evaluate equipment performance. Determines test requirements, equipment modification, and test procedures; conducts tests using all types of instruments, analyzes and evaluates test results, and prepares reports on findings and recommendations.

### **Engineering Technician VI**

Independently plans and accomplishes complete projects or studies of broad scope and complexity. Or serves as an expert in a narrow aspect of a particular field of engineering, e.g., environmental factors affecting electronic engineering. Complexity of assignments typically requires considerable creativity and judgment to devise approaches to accomplish work, resolve design and operational problems, and make decisions in situations where standard engineering methods, procedures, and techniques may not be

applicable. Supervisor or professional engineer provides advice on unusual or controversial problems or policy matters; completed work is reviewed for compliance with overall project objectives. May supervise or train and be assisted by lower level technicians. Performs, at this level, one or a combination of such typical duties as:

Prepares designs and specifications for various complex equipment or systems (e.g., a heating system in an office building, or new electronic components such as solid state devices for instrumentation equipment). Plans approach to solve design problems; conceives and recommends new design techniques; /resolves design problems with contract personnel, and assures compatibility of design with other parts of the system.

Designs and coordinates test set ups and experiments to prove or disprove the feasibility of preliminary design; uses untried and untested measurement techniques; and improves the performance of the equipment. May advise equipment users on redesign to solve unique operational deficiencies.

Plans approach and conducts various experiments to develop equipment or systems characterized by (a) difficult performance requirements because of conflicting attributes such as versatility, size, and ease of operation; or

(b) unusual combination of techniques or components. Arranges for fabrication of pilot models and determines test procedures and design of special test equipment.

## **ENGINEERING TECHNICIAN, CIVIL**

(1472: Construction inspector)

(3733: Surveying technician)

Provides semiprofessional support to engineers or related professionals engaged in the planning, design, management, or supervision of the construction (or alteration) of such structures as buildings, streets and highways, airports, sanitary systems, or flood control systems. Applies knowledge of the methods, equipment, and techniques of several of the following support functions:

*Data compilation and analysis/design and specification* - gathering, tabulating and/or analyzing hydrologic and meteorologic information, quantities of materials required, traffic patterns, or other engineering data; preparing detailed site layouts and specifications; and reviewing and analyzing design drawings for feasibility, performance, safety, durability, and design content.

*Testing* - measuring the physical characteristics of soil, rock, concrete or other construction materials to determine methods and quantities required or to comply with safety and quality standards;

*Surveying* - measuring or determining distances, elevations, areas, angles, land boundaries or other features of the earth's surface; or

*Construction inspection and monitoring* - performing on-site inspection of construction projects to determine conformance with contract specifications and building codes. Levels V and VI include positions responsible for monitoring and controlling construction projects.

*Excluded* are building, electrical, and mechanical inspectors; construction, maintenance, and craft workers; chemical or other physical science technicians; engineers required to apply professional rather than technical knowledge of engineering to their work; and technicians not primarily concerned with civil or construction engineering.

Also *excluded* are technicians below level I whose work is limited to very simple and routine tasks, such as identifying, weighing and marking easy-to-identify items or recording simple instrument readings at specified intervals.

Positions are classified into levels on the basis of the definitions listed on the following page.

## **Engineering Technician, Civil I**

Performs simple, routine tasks under close supervision or from detailed procedures. Work is checked in progress and on completion. Performs a variety of such typical duties as:

*Data compilation* - compiles engineering data from tests, drawings, specifications or field notes; performs arithmetic computations by substituting values in specified formulas; plots data and draws simple curves and graphs.

*Testing* - conducts simple or repetitive tests on soils, concrete and aggregates; e.g., sieve analysis, slump tests and moisture content determination.

*Surveying* - performs routine and established functions such as holding range poles or rods where special procedures are required or directing the placement of surveyor's chain or tape and selecting measurement points.

*Construction inspection* - makes simple measurements and observations; may make preliminary recommendations concerning the acceptance of materials or workmanship in clear-cut situations.

## Engineering Technician, Civil II

Performs standard or prescribed assignments involving a sequence of related operations. Follows standard work methods and receives detailed instructions on unfamiliar assignments. Technical adequacy of routine work is assessed upon completion; nonroutine work is reviewed in progress. Performs a variety of such typical duties as:

*Data compilation and analysis* - compiles and examines a variety of data required by engineers for project planning (e.g., hydrologic and sedimentation data; earthwork quantities), applying simple algebraic or geometric formulas.

*Testing* - conducts a variety of standard tests on soils, concrete and aggregates, e.g., determines the liquid and plastic limits of soils or the flexural and compressive strength, air content and elasticity of concrete. Examines test results and explains unusual findings.

*Surveying* - applies specialized knowledge, skills or judgment to a varied and complex sequence of standard operations, e.g., surveys small land areas using rod, tape and hand level to estimate volume to be excavated; or records data requiring numerous calculations.

*Construction inspection* - Applies a variety of techniques in inspecting less complex projects, e.g., the quality, quantity, and placement of gravel for road construction; excavations; and concrete footings for structures. Determines compliance with plans and specifications. May assist in inspecting more complex projects.

## Engineering Technician, Civil III

Performs assignments which include nonstandard applications, analyses or tests; or the use of complex instruments. Selects or adapts standard procedures using fully applicable precedents. Receives initial instructions, requirements and advice as needed; performs recurring work independently. Work is reviewed for technical adequacy and conformance with instructions. Performs a variety of such typical duties as:

*Data compilation and analysis* - applies knowledge and judgment in selecting sources, evaluating data and adapting methods, e.g., computes, from file notes, quantities of materials required for roads which include retaining walls and culverts; plots profiles, cross sections and drainage areas for a small earthwork dam.

*Design and specification* - assists in preparing plans and layouts for modifying specific structures, systems, or components by compiling pertinent design, specifications, and survey data. From detailed notes and instructions, prepares simple sketches or drawings for excavation, embankment, or structures to assist survey team in staking out work and in computing quantities.

*Testing* - conducts tests for which established procedures and equipment require either adaptation or the construction of auxiliary devices. Uses judgment to interpret precise test results.

*Surveying* - uses a variety of complex instruments to measure angles and elevations, applying judgment and skill in selecting and describing field information. Assignments include: recording complete and detailed descriptive data and providing sketches of relief, drainage and culture; or running short traverse lines from specified points along unobstructed routes.

*Construction inspection* - independently inspects standard procedures, items or operations of limited difficulty, e.g., slope, embankment, grading, moisture content, earthwork compaction, concrete forms, reinforcing rods or simple batching and placement of concrete on road construction.

## Engineering Technician, Civil IV

Plans and performs nonroutine assignments of substantial variety and complexity. Selects appropriate guidelines to resolve problems which are not fully covered by precedents. Performs recurring work independently, receiving technical advice as needed. Performs a variety of such typical duties as:

*Design and specification* - prepares site layouts for projects from such information as design criteria, soil conditions, existing buildings, topography and survey data; sketches plans for grading sites; and makes preliminary cost estimates from established unit prices. OR Reviews and develops plans, specifications, and cost estimates for standard modifications to the interior system (e.g. electrical) of a small, conventional building.

*Testing* - conducts tests which require the selection and substantial modification of equipment and procedures. Recognizes and interprets subtle, i.e., fluctuating, test reactions.

*Surveying* - makes exacting measurements under difficult conditions e.g., leads detached observing unit on surveys involving unusually heavy urban, rail or highway traffic; serves as party chief on conventional construction, property, topographical, hydrographic or geodetic surveys. Excluded are party chiefs responsible for unusually difficult or complex surveys.

*Construction inspection* - performs inspections for a variety of complete projects of limited size and complexity or a phase of a larger project, e.g., conventional one or two story concrete and steel buildings; park and forest road construction limited to clearing, grading and drainage. Interprets plans and specifications, resolves differences between plans and specifications, and approves minor deviations in methods which conform to established precedents.

## Engineering Technician, Civil V

Performs nonroutine and complex assignments involving responsibility for planning and conducting a complete project of limited scope or a portion of a larger, more complex project. Selects and adapts techniques, designs, or layouts. Reviews, analyzes and interprets the technical work of others. Completed work is reviewed for technical adequacy. Recommendations for major changes or costly alterations to basic designs are approved by supervisor. Performs a variety of such typical duties as:

*Design and specification* - prepares plans and specifications for major projects such as roads and airport runways, bridge spans, highway structures, or electrical distribution systems. Applies established engineering practice; calculates dimensions, elevations, and quantities; and selects and adapts precedents to meet specific requirements. Applies applicable standards and guidelines in resolving design problems; refers difficult or novel requirements to supervisor.

*Construction inspection* - Inspects projects of unusual difficulty and complexity, e.g., large multi-story hospitals or laboratories which include sophisticated electrical and mechanical equipment; airport runways for jet aircraft with exacting requirements. Independently interprets plans and specifications to resolve complex construction problems.

*Construction monitoring* - Monitors progress of specialized phases of construction projects. For example, develops or revises specifications for clearing land for excavation; and building access roads, utilities, construction offices, testing facilities, and maintenance and storage facilities. OR Investigates prospective contractor's capabilities, operating methods, and equipment; or reviews contractor's cost estimates and operating reports for use in computing periodic payments.

## Engineering Technician, Civil VI

Independently plans and accomplishes complete conventional projects or serves as an expert in a narrow aspect of a civil engineering field. Applies creativity and judgment to plan projects, resolve design problems, and adapt equipment, procedures, or techniques. Recommendations, plans, designs, and reports are reviewed for general adequacy and soundness of engineering judgment. Supervisor provides advice on unusual or controversial problems or policy matters. May direct or train lower level technicians.

*Design and specification* - Develops cost estimates for competitive bidding for a variety of multiple-use construction projects. Determines the construction processes involved, along with coordination and scheduling requirements. Compares types and capacities of construction equipment and calculates detailed cost estimates. OR Prepares designs and specifications for various utility systems of complex facilities; resolves design problems by adapting precedents or developing new design features.

*Construction inspection and monitoring* - Inspects and monitors progress of multi-use construction projects typically requiring more than a year for completion. Uses a knowledge of construction systems, practices, and processes to determine if projects are progressing according to contract requirements and organizational policies.

## LICENSED PRACTICAL NURSE (LPN)

(366: Licensed practical nurse)

LPN's are licensed to provide practical or vocational nursing care to patients in hospitals, nursing homes, clinics, health units, homes, and community health organizations. They typically work under the supervision of a registered nurse or physician, and may supervise unlicensed nursing assistants.

### LPN I

Provides standard nursing care requiring some latitude for independent judgment and initiative to perform recurring duties. Supervisor provides additional instructions for unusual or difficult tasks. Deviations from specific guidelines must be authorized by the supervisor. Typical assignments include:

*Hospitals/nursing homes.* As part of a nursing team, assists patients in attending to their personal hygiene; measures and labels routine specimens; records vital signs; provides routine treatments such as compresses, enemas, sterile dressings, and sitz baths; prepares and administers commonly prescribed medications; observes and reports on patient conditions; and teaches patient self care, repeating instructions previously provided by professional staff.

*Mental health/resident care.* As part of a nursing team, makes rounds of assigned area to count patients; observes patients for changes in behavior and checks for cleanliness; encourages patients to participate in recreational activities; maintains standard records of patients and medications; and administers first aid.

*Clinics/community health organizations.* Performs routine nursing procedures such as taking and recording height, weight, measurements, and vital signs. Performs vision, hearing, urine, and tuberculin skin tests; records test results.

Administers medications and immunizations under supervision of an RN; observes, records, and reports signs of illness or changes in patient condition; and assists physician with physical examination. May provide routine nursing care to the sick at home, reinforcing physician's instructions, checking medication and eating and sleeping habits, and inquiring about additional problems.

## LPN II

Provides nursing care requiring an understanding of diseases and illnesses sufficient to enhance communication with physicians, registered nurses, and patients. Follows general instructions in addition to established policies, practices, and procedures. Uses judgment to vary sequence of procedures based on patient's condition and previous instructions. Supervisory approval for requested deviations is given routinely. Guidance is provided for unusual occurrences.

*Hospital/nursing homes.* As a responsible member of a nursing team, cares for patients in various stages of dependency (e.g., ranging from those receiving general medical care to a selected few who are critically ill). Provides appropriate verbal and written information for patient care plans. In addition to the tasks described at level I, assignments may include more complex duties such as: catheterizing, irrigating, or suctioning patients; observing and reporting intravenous fluids; and assisting in resuscitation procedures.

*Mental health/resident care.* Provides input into nursing team conferences by interpreting patient nursing care needs and responses to therapy. In addition to the tasks described at level I, serves as a role model by performing and teaching self care; participates in therapy sessions by promoting self care and self worth; and records progress treatment plans.

*Clinics/community health organizations.* In addition to the duties described at level I, uses experience and judgment to perform more complex procedures such as: screening patients for health problems such as hypertension and diabetes, using judgment in deciding to refer patients to RN or physician; providing patient's treatment plan; coordinating selected clinic operations; giving irrigations and catheterizations, suctioning tracheotomies, and conducting electrocardiograms; or recertifying applicants for supplemental food programs when test results indicate nutritional deficiencies.

*Employer health units.* Uses judgment to perform moderately complex procedures such as: treating employees for minor illnesses and work related injuries, and referring difficult cases to RN or physician; observing reactions to drugs and treatments and reporting irregularities; assisting physicians with examinations and treatments; and maintaining records of occupational illnesses and injuries as required by Federal and State regulations.

## LPN III

This level applies to two different work situations. In situation 1), LPN's provide nursing care for patients in various stages of dependency, setting priorities and deadlines for patient care, and modifying nursing care as necessary prior to notifying the supervisor. In situation 2), LPN's are assigned to a selected group of critically ill patients, e.g., in hospital intensive care or coronary care units. These assignments require LPN's to immediately recognize and respond to serious situations, sometimes prior to notifying and RN. However, their overall independence and authority is more limited than that described in situation 1 and supervisory approval is required for proposed deviations from established guidelines.

*Hospitals.* Under direct supervision of an RN, provides nursing care to critically ill patients in such areas as intensive care or coronary care. Duties, while similar to the more complex responsibilities described at level II, are performed under stressful conditions requiring special techniques and procedures in reacting to life-threatening situations and in providing basic patient care. Evaluates appropriateness of planned treatment, given the patient's condition, and proposes modifications to RN.

*Mental health/resident care/nursing homes.* Duties are similar to those described at level II. However, these LPN's are authorized to adapt, if necessary nursing care methods and procedures to meet changing patients needs.

*Exclude LPN's above level III.* Such positions not only provides difficult nursing care to a selected group of critically ill patients, but also set priorities and deadlines for patient care, and modify nursing care prior to notifying the supervisor.

## NURSING ASSISTANT

(523: Nursing aide, orderly, and attendant)

Provides personal and nursing care to patients in hospitals, nursing homes, resident care facilities, clinics, private homes, and community health organizations. Duties include maintaining patient hygiene and supporting doctors and nurses in diagnostic procedures, technical treatments, patient charting and patient teaching. Work does not require a State license. Supervisory positions are excluded.

### Nursing Assistant I

Performs simple personal care and housekeeping tasks requiring no previous training. Typical tasks include: bathing, dressing, feeding, lifting, escorting, and, transporting patients; collecting laundry carts and food trays; taking and recording temperatures; and changing bed linen and cleaning patient's room. Follows detailed and specific instructions.

## Nursing Assistant II

In addition to providing personal care, performs common nursing procedures such as observing and reporting on patient conditions; taking and recording vital signs; collecting and labeling specimens; sterilizing equipment; listening to and encouraging patients; giving sitz baths and enemas; applying and changing compresses and non-sterile dressings; checking and replenishing supplies; securing admission data from patients; an assisting in controlling aggressive or disruptive behavior. Follows specific instructions; matters not covered are verified with the supervisor.

Note: Positions receiving additional pay for performing the above duties and responsibilities in *forensic* units of mental health institutions should be matched at level III. Workers in such positions must regularly use skill in influencing and communications with patients who display abusive or resistant behavior.

## Nursing Assistant III

Performs a variety of common nursing procedures as described at level II. Work requires prior experience or training to perform these procedures with some latitude for exercising independent initiative *or* limited judgment. May also: perform several procedures sequentially; chart patient care; administer prescribed medication and simple treatments; teach patient self care; and lead lower level nursing assistants.

Note: Positions receiving additional pay for performing the above duties and responsibilities in *forensic* units of mental health institutions should be matched at level IV. (See Note for level II.)

## Nursing Assistant IV

Applies advanced patient or resident care principles, procedures and techniques which require considerable training and experience. In addition to the work described at level III, typical duties include: assisting professional staff in planning and evaluating patient or resident care; recognizing subtle changes in patient's condition and behavior and varying nursing care accordingly; catheterizing, irrigating, and suctioning patients; monitoring IV fluids and alerting registered nurse when system needs attention; and performing minor operative and diagnostic procedures in a clinic. Supervisor describes limitations or priorities of work.

*Excluded* are nursing assistant above level IV. Workers in these excluded positions typically participate (rather than assist) in planning and modifying patient or resident care; function as co-therapists in mental health therapy sessions; or coordinate treatment activities with patients, families, an faculty staff. *Also excluded* are positions receiving additional pay for performing level IV duties and responsibilities in *forensic* units of mental health institutions. (See Note for level II.)

## Protective Service

### CORRECTIONS OFFICER

(5133: Correctional institution officer)

Maintains order among inmates in a State prison or local jail. Performs routine duties in accordance with established policies, regulations, and procedures to guard and supervise inmates in cells, at meals, during recreation, and on work assignments. May, if necessary, employ weapons or force to maintain discipline and order. Typical duties include: Taking periodic inmate counts; searching inmates and cells for contraband articles; inspecting locks, window bars, grills, doors, and grates for tampering; aiding in prevention of escapes and taking part in searches for escaped inmates; and escorting inmates to and from different areas for questioning, medical treatment, work, and meals. May act as outside or wall guard, usually on rotation.

*Excluded* are:

- a. Workers receiving on-the-job training in basic correctional officer activities; and
- b. Positions responsible for providing counseling or rehabilitation services to inmates.

### FIREFIGHTER

(5123: Firefighting occupation)

As a full-time paid member of the fire department, combats, extinguishes, and prevents fires and performs rescue operations in structural and airfield environments. Performs maintenance on own equipment and quarters. Wears protective clothing and breathing devices; drives fire and crash equipment; and operates a variety of firefighting equipment such as hoses, extinguishers, ladders and axes. May hold national certification as an Emergency Medical Technician.

*Excluded* are:

- a. Fire academy cadets;
- b. Positions receiving *additional compensation* for driving and operating structural pumps and crash vehicles; and
- c. Work leaders and supervisors.

## Clerical

### **POLICE OFFICER**

(5132: Police and detective, public service)

Enforces laws established for the protection of persons and property, by detaining, arresting, interrogating, and incarcerating suspected violators, and appearing as a witness at trials. Work is performed in uniform or civilian clothes and officers are typically armed.

*Excluded are:*

- a. Supervisory positions;
- b. Criminal investigators;
- c. Police detectives and specialists performing duties above those described for Police Officer II;
- d. Positions requiring the operation of an aircraft: and
- e. Police academy cadets and positions receiving on-the-job training and experience in basic police activities.

### **Police Officer I**

Carries out general and specific assignments from superior officers in accordance with established rules and procedures. Maintains order, enforces laws and ordinances, and protects life and property in an assigned patrol district or beat by performing a combination of such duties as: patrolling a specific area on foot or in a vehicle; directing traffic; issuing traffic summonses; investigating accidents; apprehending and arresting suspects; processing prisoners; and protecting scenes of major crimes. May participate with detectives or investigators in conducting surveillance operations.

### **Police Officer II**

In addition to the basic police duties described at level I, receives additional compensation to specialize in one or more activities, such as: canine patrol; special reaction teams (e.g., special weapons assault team, special operations reaction team); juvenile cases; hostage negotiations; and participating in investigations (e.g., stakeout, surveillance) or other enforcement activities requiring specialized training and skills.

### **CLERK, ACCOUNTING**

(4712: Bookkeeper and accounting and auditing clerk)

Performs one or more accounting tasks, such as posting to registers and ledgers; balancing and reconciling accounts; verifying the internal consistency, completeness, and mathematical accuracy of accounting documents; assigning prescribed accounting distribution codes; examining and verifying the clerical accuracy of various types of reports, lists, calculations, postings, etc.; preparing journal vouchers; or making entries or adjustments to accounts.

Levels I and II require a basic knowledge of routine clerical methods and office practices and procedures as they relate to the clerical processing and recording of transactions and accounting information. Levels III and IV require a knowledge and understanding of the established and standardized bookkeeping and accounting procedures and techniques used in an accounting system, or a segment of an accounting system, where there are few variations in the types of transactions handled. In addition, some jobs at each level may require a basic knowledge and understanding of the terminology, codes, and processes used in an automated accounting system.

### **Clerk, Accounting I**

Performs very simple and routine accounting clerical operations, for example, recognizing and comparing easily identified numbers and codes on similar and repetitive accounting documents, verifying mathematical accuracy, and identifying discrepancies and bringing them to the supervisor's attention. Supervisor gives clear and detailed instructions for specific assignments. Employee refers to supervisor all matters not covered by instructions. Work is closely controlled and reviewed in detail for accuracy, adequacy, and adherence to instructions.

### **Clerk, Accounting II**

Performs one or more routine accounting clerical operations, such as: examining, verifying, and correcting accounting transactions to ensure completeness and accuracy of data and proper identification of accounts, and checking that expenditures will not exceed obligations in specified accounts; totaling, balancing, and reconciling collection vouchers; posting data to transaction sheets where employee identifies proper accounts and items to be posted; and coding documents in accordance with a chart (listing) of

accounts. Employee follows specific and detailed accounting procedures. Completed work is reviewed for accuracy and compliance with procedures.

### **Clerk, Accounting III**

Uses a knowledge of double entry bookkeeping in performing one or more of the following: posts actions to journals, identifying subsidiary accounts affected and debit and credit entries to be made and assigning proper codes; reviews computer printouts against manually maintained journals, detecting and correcting erroneous postings, and preparing documents to adjust accounting classifications and other data; or reviews lists of transactions rejected by an automated system, determining reasons for rejections, and preparing necessary correcting material. On routine assignments, employee selects and applies established procedures and techniques. Detailed instructions are provided for difficult or unusual assignments. Completed work and methods used are reviewed for technical accuracy.

### **Clerk, Accounting IV**

Maintains journals or subsidiary ledgers of an accounting system and balances and reconciles accounts. Typical duties include one or both of the following: reviews invoices and statements (verifying information, ensuring sufficient funds have been obligated, and if questionable, resolving with the submitting unit, determining accounts involved, coding transactions, and processing material through data processing for application in the accounting system); and/or analyzes and reconciles computer printouts with operating unit reports (contacting units and researching causes of discrepancies, and taking action to ensure that accounts balance). Employee resolves problems in recurring assignments in accordance with previous training and experience. Supervisor provides suggestions for handling unusual or nonrecurring transactions. Conformance with requirements and technical soundness of completed work are reviewed by the supervisor or are controlled by mechanisms built into the accounting system.

*Note:* Excluded from level IV are positions responsible for maintaining either a general ledger or a general ledger in combination with subsidiary accounts.

## **CLERK, GENERAL**

(463: General office occupation)

Performs a *combination of clerical tasks* to support office, business, or administrative operations, such as: maintaining records; receiving, preparing, or verifying documents; searching for and compiling information and data; responding to routine requests with standard answers (by phone, in person, or by correspondence). The work requires a basic knowledge of proper office procedures. Workers at levels I, II, and III follow prescribed procedures or steps to process paperwork; they may perform other routine office support work, (e.g., typing, filing, or operating a keyboard controlled data entry

device to transcribe data into a form suitable for data processing). Workers at level IV are also required to make decisions about the adequacy and content of transactions handled in addition to following proper procedures.

Clerical work is controlled (e.g., through spot checks, complete review, or subsequent processing) for both quantity and quality. Supervisors (or other employees) are available to assist and advise clerks on difficult problems and to approve their suggestions for significant deviations from existing instructions.

*Excluded* from this definition are: workers whose pay is *primarily* based on the performance of a *single* clerical duty such as typing, stenography, office machine operation, or filing; and other workers, such as secretaries, messengers, receptionists or public information specialists who perform general clerical tasks incidental to their primary duties.

### **Clerk, General I**

Follows a few clearly detailed procedures in performing simple repetitive tasks in the same sequence, such as filing precoded documents in a chronological file or operating office equipment, e.g., mimeograph, photocopy, addressograph or mailing machine.

### **Clerk, General II**

Follows a number of specific procedures in completing several repetitive clerical steps performed in a prescribed or slightly varied sequence, such as coding and filing documents in an extensive alphabetical file, simple posting to individual accounts, opening mail, running mail through metering machines, and calculating and posting charges to departmental accounts. Little or no subject-matter knowledge is required, but the clerk needs to choose the proper procedure for each task.

### **Clerk, General III**

Work requires a familiarity with the terminology of the office unit. Selects appropriate methods from a wide variety of procedures or makes simple adaptations and interpretations of a limited number of substantive guides and manuals. The clerical steps often vary in type or sequence, depending on the task. Recognized problems are referred to others.

Typical duties include a combination of the following: maintaining time and material records, taking inventory of equipment and supplies, answering questions on departmental services and functions, operating a variety of office machines, posting to various books, balancing a restricted group of accounts to controlling accounts, and assisting in preparation of budgetary requests. May oversee work of lower level clerks.

## Clerk, General IV

Uses some subject-matter knowledge and judgment to complete assignments consisting of numerous steps that vary in nature and sequence. Selects from alternative methods and refers problems not solvable by adapting or interpreting substantive guides, manuals, or procedures.

Typical duties include: assisting in a variety of administrative matters; maintaining a wide variety of financial or other records; verifying statistical reports for accuracy and completeness; and handling and adjusting complaints. May also direct lower level clerks.

Positions above level IV are *excluded*. Such positions (which may include supervisory responsibility over lower level clerks) require workers to use a thorough knowledge of an office's work and routine to: 1) choose among widely varying methods and procedures to process complex transactions; and 2) select or devise steps necessary to complete assignments. Typical jobs covered by this exclusion include administrative assistants, clerical supervisors, and office managers.

## CLERK, ORDER

(4664: Order clerk)

Receives written or verbal customers' purchase orders for material or merchandise from customers or sales people. Work typically involves some combination of the following duties: quoting prices; determining availability of ordered items and suggesting substitutes when necessary; advising expected delivery date and method of delivery; recording order and customer information on order sheets; checking order sheets for accuracy and adequacy of information recorded; ascertaining credit rating of customer; furnishing customer with acknowledgment of receipt of order; following up to see that order is delivered by the specified date or to let customer know of a delay in delivery; maintaining order file; checking shipping invoice against original order. *Exclude workers paid on a commission basis or whose duties include any of the following:* receiving orders for services rather than for material or merchandise; providing customers with consultative advice using knowledge gained from engineering or extensive technical training; emphasizing selling skills; handling material or merchandise as an integral part of the job.

Positions are classified into levels according to the following definitions:

### Clerk, Order I

Handles orders involving items which have readily identified uses and applications. May refer to a catalog, manufacturer's manual, or similar document to insure that proper item is supplied or to verify price of ordered item.

## Clerk, Order II

Handles orders that involve making judgments such as choosing which specific product or material from the establishment's product lines will satisfy the customer's needs, or determining the price to be quoted when pricing involves more than merely referring to a price list or making some simple mathematical calculations.

## KEY ENTRY OPERATOR

(4793: Data entry keyer)

Operates keyboard-controlled data entry device such as keypunch machine or key-operated magnetic tape or disc encoder to transcribe data into a form suitable for computer processing. Work requires skill in operating an alphanumeric keyboard and an understanding of transcribing procedures and relevant data entry equipment.

Positions are classified into levels on the basis of the following definitions:

### Key Entry Operator I

Work is routine and repetitive. Under close supervision or following specific procedures or detailed instructions, works from various standardized source documents which have been coded and require little or no selecting, coding, or interpreting of data to be entered. Refers to supervisor problems arising from erroneous items, codes, or missing information.

### Key Entry Operator II

Work requires the application of experience and judgment in selecting procedures to be followed and in searching for, interpreting, selecting, or coding items to be entered from a variety of source documents. On occasion may also perform routine work as described for level I.

*Note:* *Excluded* are operators above level II using the key entry controls to access, read, and evaluate the substance of specific records to take substantive actions, or to make entries requiring a similar level of knowledge.

## PERSONNEL ASSISTANT (Employment)

(4692: Personnel clerk, except payroll and timekeeper)

Personnel assistants (employment) provide clerical and technical support to personnel professionals or managers in internal matters relating to recruiting, hiring, transfer, change in pay status, and termination of employees. At the lower levels, assistants primarily provide basic information to current and prospective employees, maintain

personnel records and information listings, and prepare and process papers on personnel actions (hires, transfers, changes in pay, etc.). At the higher levels, assistants may perform limited aspects of a personnel professional's work, e.g., interviewing candidates, recommending placements, and preparing personnel reports. Final decisions on personnel actions are made by personnel professionals or managers. Some assistants may perform a limited amount of work in other specialties, such as benefits, compensation, or employee relations. Typing may be required at any level.

*Excluded are:*

- a. Workers who primarily compute and process payrolls or compute and/or respond to questions on benefits or retirement claims;
- b. Workers who receive additional pay primarily for maintaining and safeguarding personnel record files;
- c. Workers whose duties do not require a knowledge of personnel rules and procedures, such as receptionists, messengers, typists, or stenographers;
- d. Workers in positions requiring a bachelor's degree;
- e. Workers who are primarily compensated for duties outside the employment specialty, such as benefits, compensation, or employee relations; and
- f. Positions above level IV. Workers in these excluded positions perform duties which are similar to level IV, but which are more complicated because they include limited aspects of professional personnel work for a variety of conventional and stable occupations.

Positions are classified into levels on the basis of the following definitions. The work described is essentially at a responsible clerical level at the low levels and progresses to a staff assistant or technician level. At level III, which is transitional, both types of work are described. Jobs which match either type of work described at level III, or which are combinations of the two, can be matched.

### **Personnel Assistant (Employment) I**

Performs routine tasks which require a knowledge of personnel procedures and rules, such as: providing simple employment information and appropriate lists and forms to applicants or employees on types of jobs being filled, procedures to follow, and where to obtain additional information; ensuring that the proper forms are completed for name changes, locator information, applications, etc. and reviewing completed forms for signatures and proper entries; or maintaining personnel records, contacting appropriate

sources to secure any missing items, and posting items such as dates of promotions, transfer, and hire, or rates of pay or personal data. (If this information is computerized, skill in coding or entering information may be needed as a minor duty.) May answer outside inquiries for simple factual information, such as verification of dates of employment in response to telephone credit checks on employees. Some receptionist or other clerical duties may be performed. May be assigned work to provide training for a higher level position.

Detailed rules and procedures are available for all assignments. Guidance and assistance on unusual questions are available at all times. Work is spot checked, often on a daily basis.

### **Personnel Assistant (Employment) II**

Examines and/or processes personnel action documents using experience in applying personnel procedures and policies. Ensures that information is complete and consistent and determines whether further discussion with applicants or employees is needed or whether personnel information must be checked against additional files or listings. Selects appropriate precedents, rules, or procedures from a number of alternatives. Responds to varied questions from applicants, employees, or managers for readily available information which can be obtained from file material or manuals; responses require skill to secure cooperation in correcting improperly completed personnel documents or to explain regulations and procedures. May provide information to managers on availability of applicants and status of hiring actions; may verify employment dates and places supplied on job applications; may maintain personnel records; and may administer typing and stenography tests.

Completes routine assignments independently. Detailed guidance is available for situations which deviate from established precedents. Clerks/assistants are relied upon to alert higher level clerks/assistants or supervisor to such situations. Work may be spot checked periodically.

### **Personnel Assistant (Employment) III**

#### *Type A*

Serves as a clerical expert in independently processing the most complicated types of personnel actions, e.g., temporary employment, rehires, and dismissals and in providing information when it is necessary to consolidate data from a number of sources, often with short deadlines. Screens applications for obvious rejections. Resolves conflicts in computer listings or other sources of employee information. Locates lost documents or reconstructs information using a number of sources. May check references of applicants when information in addition to dates and places of past work is needed, and judgment is required to ask appropriate routine follow-up questions. May provide guidance to lower level clerks. Supervisory review is similar to level II.

*Type B*

Performs routine personnel assignments beyond the clerical level, such as: orienting new employees to programs, facilities, rules on time and attendance, and leave policies; computing basic statistical information for reports on manpower profiles, EEO progress and accomplishments, hiring activities, attendance and leave profiles, turnover, etc.; and screening applicants for well-defined positions, rejecting those who do not qualify for available openings for clear cut reasons, referring others to appropriate employment interviewer. Guidance is provided on possible sources of information, methods of work, and types of reports needed. Completed written work receives close technical review from higher level personnel office employees; other work may be checked occasionally.

**Personnel Assistant (Employment) IV**

Performs work in support of personnel professionals which requires a good working knowledge of personnel procedures, guides, and precedents. In representative assignments: interviews applicants, obtains references, and recommends placement of applicants in a few well-defined occupations (trades or clerical) within a stable organization or unit; conducts post-placement or exit interviews to identify job adjustment problems or reasons for leaving the organization; performs routine statistical analyses related to manpower, EEO, hiring, or other employment concerns, e.g., compares one set of data to another set as instructed; and requisitions applicants through employment agencies for clerical or blue-collar jobs. At this level, assistants typically have a range of personal contacts within and outside the organization and with applicants, and must be tactful and articulate. May perform some clerical work in addition to the above duties. Supervisor reviews completed work against stated objectives.

**SECRETARY**

(4622: Secretary)

Provides principal secretarial support in an office, usually to one individual, and, in some cases, also to the subordinate staff of that individual. Maintains a close and highly responsive relationship to the day-to-day activities of the supervisor and staff. Works fairly independently receiving a minimum of detailed supervision and guidance. Performs varied clerical and secretarial duties requiring a knowledge of office routine and an understanding of the organization, programs, and procedures related to the work of the office.

*Exclusions.* Not all positions titled "secretary" possess the above characteristics. Examples of positions which are excluded from the definition are as follows:

- a. Clerks or secretaries working under the direction of secretaries or administrative assistants as described in e;

- b. Stenographers not fully performing secretarial duties;
- c. Stenographers or secretaries assigned to two or more professional, technical, or managerial persons of equivalent rank;
- d. Assistants or secretaries performing any kind of technical work, e.g., personnel, accounting, or legal work;
- e. Administrative assistants or supervisors performing duties which are more difficult or more responsible than the secretarial work described in LR-1 through LR-4;
- f. Secretaries receiving additional pay primarily for maintaining confidentiality of payroll records or other sensitive information;
- g. Secretaries performing routine receptionist, typing, and filing duties following detailed instructions and guidelines; these duties are less responsible than those described in LR-1 below; and
- h. Trainees.

**Classification by level**

Secretary jobs which meet the required characteristics are matched at one of five levels according to two factors: (a) level of the secretary's supervisor within the overall organizational structure, and (b) level of the secretary's responsibility. The table following the explanations of these factors indicates the level of the secretary for each combination of factors.

**Level of secretary's supervisor (LS)**

Secretaries should be matched at one of the three LS levels below best describing the organization of the secretary's supervisor.

- LS-1 Organizational structure is not complex and internal procedures and administrative controls are simple and informal; supervisor directs staff through face-to-face meetings.
- LS-2 Organizational structure is complex and is divided into *subordinate groups that usually differ from each other as to subject-matter, function, etc.*; supervisor usually directs staff through intermediate supervisors; and internal procedures and administrative controls are formal. An entire organization (e.g., division, subsidiary, or parent organization) may contain a variety of subordinate groups which meet the LS-2 definition. Therefore, it is not unusual for one LS-2 supervisor to report to another LS-2 supervisor.

The presence of subordinate supervisors does not by itself mean LS-2 applies, e.g., a clerical processing organization divided into several units, each performing very similar work is placed in LS-1.

In smaller organizations or industries such as retail trade, with relatively few organizational levels, the supervisor may have an impact on the policies and major programs of the entire organization, and may deal with important outside contacts, as described in LS-3.

LS-3 Organizational structure is divided into two or more subordinate supervisory levels (of which at least one is a managerial level) with several subdivisions at each level. Executive's program(s) are usually inter-locked on a direct and continuing basis with other major organizational segments, requiring constant attention to extensive formal coordination, clearances, and procedural controls. Executive typically has: financial decision making authority for assigned program(s); considerable impact on the entire organization's financial position or public image; and responsibility for, or has staff specialists in, such areas as personnel and administration for assigned organization. Executive plays an important role in determining the policies and major programs of the entire organization, and spends considerable time dealing with outside parties actively interested in assigned program(s) and current or controversial issues.

### Level of secretary's responsibility (LR)

This factor evaluates the nature of the work relationship between the secretary and the supervisor or staff, and the extent to which the secretary is expected to exercise initiative and judgment. Secretaries should be matched at the level best describing their level of responsibility. When the position's duties span more than one LR level, the introductory paragraph at the beginning of each LR level should be used to determine which of the levels best matches the position. (Typically, secretaries performing at the higher levels of responsibility also perform duties described at the lower levels.)

LR-1 Carries out *recurring* office procedures independently. Selects the guideline or reference which fits the specific case. Supervisor provides specific instructions on new assignments and checks completed work for accuracy. Performs varied duties including or comparable to the following:

- a. Responds to routine telephone requests which have standard answers; refers calls and visitors to appropriate staff. Controls mail and assures timely staff response; may send form letters.
- b. As instructed, maintains supervisor's calendar, makes appointments, and arranges for meeting rooms.
- c. Reviews materials prepared for supervisor's approval for typographical accuracy and proper format.

- d. Maintains recurring internal reports, such as: time and leave records, office equipment listings, correspondence controls, training plans, etc.
- e. Requisitions supplies, printing, maintenance, or other services. Types, takes and transcribes dictation, and establishes and maintains office files.

LR-2 Handles differing situations, problems, and deviations in the work of the office according to the supervisor's general instructions, priorities, duties, policies, and program goals. Supervisor may assist secretary with special assignments. Duties include or are comparable to the following:

- a. Screens telephone calls, visitors, and incoming correspondence; personally responds to requests for information concerning office procedures; determines which requests should be handled by the supervisor, appropriate staff member, or other offices. May prepare and sign routine, non-technical correspondence in own or supervisor's name.
- b. Schedules tentative appointments without prior clearance. Makes arrangements for conferences and meetings and assembles established background materials, as directed. May attend meetings and record and report on the proceedings.
- c. Reviews outgoing materials and correspondence for internal consistency and conformance with supervisor's procedures; assures that proper clearances have been obtained, when needed.
- d. Collects information from the files or staff for routine inquires on office program(s) or periodic reports. Refers nonroutine requests to supervisor or staff.
- e. Explains to subordinate staff supervisor's requirements concerning office procedures. Coordinates personnel and administrative forms for the office and forwards for processing.

LR-3 Uses greater judgment and initiative to determine the approach or action to take in nonroutine situations. Interprets and adapts guidelines, including unwritten policies, precedents, and practices, which are not always completely applicable to changing situations. Duties include or are comparable to the following:

- a. Based on a knowledge of the supervisor's views, composes correspondence on own initiative about administrative matters and general office policies for supervisor's approval.

- b. Anticipates and prepares materials needed by the supervisor for conferences, correspondence, appointments, meetings, telephone calls, etc., and informs supervisor on matters to be considered.
- c. Reads publications, regulations, and directives and takes action or refers those that are important to the supervisor and staff.
- d. Prepares special or one-time reports, summaries, or replies to inquiries, selecting relevant information from a variety of sources such as reports, documents, correspondence, other offices, etc., under general direction.
- e. Advises secretaries in subordinate offices on new procedures; requests information needed from the subordinate office(s) for periodic or special conferences, reports, inquiries, etc. Shifts clerical staff to accommodate work load needs.

**LR-4** Handles a wide variety of situations and conflicts involving the clerical or administrative functions of the office which often cannot be brought to the attention of the executive. The executive sets the overall objectives of the work. Secretary may participate in developing the work deadlines. Duties include or are comparable to the following:

- a. Composes correspondence requiring some understanding of technical matters; may sign for executive when technical or policy content has been authorized.
- b. Notes commitments made by executive during meetings and arranges for staff implementation. On own initiative, arranges for staff member to represent organization at conferences and meetings, establishes appointment priorities, or reschedules or refuses appointments or invitations.
- c. Reads outgoing correspondence for executive's approval and alerts writers to any conflict with the file or departure from policies or executive's viewpoints; gives advice to resolve the problems.
- d. Summarizes the content of incoming materials, specially gathered information, or meetings to assist executive; coordinates the new information with background office sources; draws attention to important parts or conflicts.
- e. In the executive's absence, ensures that requests for action or information are relayed to the appropriate staff member; as needed, interprets request and helps implement action; makes sure that information is furnished in timely manner; decides whether executive should be notified of important or emergency matters.

*Exclude* secretaries performing any of the following duties:

- a. Acts as office manager for the executive's organization, e.g., determines when new procedures are needed for changing situations and devises and implements alternatives; revises or clarifies procedures to eliminate conflict or duplication; identifies and resolves various problems that affect the orderly flow of work in transactions with parties outside the organization.
- b. Prepares agenda for conferences; explains discussion topics to participants; drafts introductions and develops background information and prepares outlines for executive or staff member(s) to use in writing speeches.
- c. Advises individuals outside the organization on the executive's views on major policies or current issues facing the organization; contacts or responds to contacts from high-ranking outside officials (e.g., city or State officials, Member of Congress, presidents of national unions or large national or international firms, etc.) in unique situations. These officials may be relatively inaccessible, and each contact typically must be handled differently, using judgment and discretion.

**Criteria for matching secretaries by level**

Level of secretary's supervisor	Level of secretary's responsibility			
	LR-1	LR-2	LR-3	LR-4
LS-1	I*	II	III	IV
LS-2	I*	III	IV	V
LS-3	I*	IV	V	V

\*Regardless of LS level.

**SWITCHBOARD OPERATOR-RECEPTIONIST**

(4645: Receptionist)

Operates a single-position telephone switchboard or console, used with a private branch exchange (PBX) system to relay incoming, outgoing, and intrasystem calls *and* acts as a receptionist greeting visitors, determining nature of visits and directing visitors to appropriate persons. Work may also involve other duties such as recording and transmitting messages; keeping records of calls placed; providing information to callers and visitors; making appointments; keeping a log of visitors; and issuing visitor passes.

May also type and perform other routine clerical work, usually while at the switchboard or console, which may occupy the major portion of the worker's time.

## **WORD PROCESSOR**

(4624: Typist)

Uses automated systems, such as word processing equipment, or personal computers or work stations linked to a larger computer or local area network, to produce a variety of documents, such as correspondence, memos, publications, forms, reports, tables and graphs. Uses one or more word processing software packages. May also perform routine clerical tasks, such as operating copiers, filing, answering telephones, and sorting and distributing mail.

*Excluded are:*

- a. Typists using automatic or manual typewriters with limited or no text-editing capabilities; workers in these positions are not typically required to use word processing software packages;
- b. Key entry operators, accounting clerks, inventory control clerks, sales clerks, supply clerks, and other clerks who may use automated word processing equipment for purposes other than typing composition; and
- c. Positions requiring subject-matter knowledge to prepare and edit text using automated word processing equipment.

### **Word Processor I**

Produces a variety of standard documents, such as correspondence, form letters, reports, tables and other printed materials. Work requires skill in typing; a knowledge of grammar, punctuation, and spelling; and ability to use reference guides and equipment manuals. Performs familiar, routine assignments following standard procedures. Seeks further instructions for assignments requiring deviations from established procedures.

### **Word Processor II**

Uses a knowledge of varied and advanced functions of one software type, a knowledge of varied functions of different types of software, or a knowledge of specialized or technical terminology to perform such typical duties as:

- Editing and reformatting written or electronic drafts. Examples include: Correcting function codes; adjusting spacing and formatting; and standardizing headings, margins, and indentations.

- Transcribing scientific reports, lab analyses, legal proceedings, or similar material from voice tapes or handwritten drafts. Work requires knowledge of specialized, technical, or scientific terminology.

Work requires familiarity with office terminology and practices; incumbent corrects copy and questions originator of document concerning missing information, improper formatting, or discrepancies in instructions. Supervisor sets priorities and deadlines on continuing assignments, furnishes general instructions for recurring work, and provides specific instructions for new or unique projects. May lead lower level word processors.

### **Word Processor III**

Requires both a comprehensive knowledge of word processing software applications and office practices and a high degree of skill in applying software functions to prepare complex and detailed documents. For example, processes complex and lengthy technical reports which include tables, graphs, charts, or multiple columns. Uses either different word processing packages or many different style macros or special command functions. Independently completes assignments and resolves problems.

## **Maintenance and Toolroom**

### **GENERAL MAINTENANCE WORKER**

(6179: Mechanic and repairer, not elsewhere classified)

Performs general maintenance and repair of equipment and buildings requiring practical skill and knowledge (but not proficiency) in such trades as painting, carpentry, plumbing, masonry, and electrical work. Work involves a variety of the following duties: Replacing electrical receptacles, switches, fixtures, wires, and motors; using plaster or compound to patch minor holes and cracks in walls and ceilings; repairing or replacing sinks, water coolers, and toilets; painting structures and equipment; repairing or replacing concrete floors, steps, and sidewalks; replacing damaged panelling and floor tiles; hanging doors and installing door locks; replacing broken window panes; and performing general maintenance on equipment and machinery.

*Excluded are:*

- a. Craft workers included in a formal apprenticeship or progression program based on training and experience;
- b. Skilled craft workers required to demonstrate proficiency in one or more trades; and
- c. Workers performing simple maintenance duties not requiring practical skill and knowledge of a trade (e.g., changing light bulbs and replacing faucet washers).

## **MAINTENANCE ELECTRICIAN**

(615: Electrical and electronic equipment repairer)  
(6432: Electrician)

Performs a variety of electrical trade functions such as the installation, maintenance, or repair of equipment for the generation, distribution, or utilization of electric energy. Work involves *most of the following*: installing or repairing any of a variety of electrical equipment such as generators, transformers, switchboards, controllers, circuit breakers, motors, heating units, conduit systems, or other transmission equipment; working from blueprints, drawings, layouts, or other specifications; locating and diagnosing trouble in the electrical system or equipment; working standard computations relating to load requirements of wiring or electrical equipment; and using a variety of electrician's handtools and measuring and testing instruments. In general, the work of the maintenance electrician requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

## **MAINTENANCE ELECTRONICS TECHNICIAN**

(615: Electrical and electronic equipment repairer)

Maintains, repairs, and installs various types of electronic equipment and related devices such as electronic transmitting and receiving equipment (e.g., radar, radio, television, telecommunication, sonar, and navigational aids); personal and mainframe computers and terminals; industrial, medical, measuring, and controlling equipment; satellite equipment; and industrial robotic devices. Applies technical knowledge of electronics principles in determining equipment malfunctions, and applies skill in restoring equipment operations.

*Excluded are:*

- a. Repairers of such standard electronic equipment as household radio and television sets, and common office machines and telecommunication equipment such as typewriters, calculators, facsimile machines, telephones, and telephone answering machines;
- b. Production assemblers and testers;
- c. Workers primarily responsible for servicing electronic test instruments; and
- d. Workers providing technical support for engineers working in such areas as research, design, development, testing, or manufacturing process improvement (see Engineering Technician).

## **Maintenance Electronics Technician I**

Applies technical knowledge to perform simple or routine tasks following detailed instructions. Performs such tasks as replacing components and wiring circuits; repairing

simple electronic equipment; and taking test readings using common instruments such as digital multimeters, signal generators, semiconductor testers, curve tracers, and oscilloscopes.

Receives technical guidance, as required, from supervisor or higher level technician. Work is spot-checked for accuracy.

## **Maintenance Electronics Technician II**

Applies comprehensive technical knowledge to solve complex problems by interpreting manufacturers' manuals or similar documents. Work requires familiarity with the interrelationships of circuits and judgment in planning work sequence and in selecting tools and testing instruments.

Receives technical guidance, as required, from supervisor or higher level technician, and work is reviewed for compliance with accepted practices. May provide technical guidance to lower level technicians.

## **Maintenance Electronics Technician III**

Applies advanced technical knowledge to solve unusually complex problems that typically cannot be solved solely by referencing manufacturers' manuals or similar documents. Examples of such problems include determining the location and density of circuitry, evaluating electromagnetic radiation, isolating malfunctions, and incorporating engineering changes.

Work typically requires a detailed understanding of the interrelationships of circuits. Exercises independent judgment in performing such tasks as making circuit analyses, calculating wave forms, and tracing relationships in signal flow. Uses complex test instruments such as high frequency pulse generators, frequency synthesizers, distortion analyzers, and complex computer control equipment.

Work may be reviewed by supervisor for general compliance with accepted practices. May provide technical guidance to lower level technicians.

## **MAINTENANCE MACHINIST**

(613: Industrial machinery repairer)

Produces replacement parts and new parts in making repairs of metal parts of mechanical equipment. Work involves *most of the following*: interpreting written instructions and specifications; planning and laying out of work; using a variety of machinist's handtools and precision measuring instruments; setting up and operating standard machine tools; shaping of metal parts to close tolerances; making standard shop computations relating to dimensions of work, tooling, feeds, and speeds of machining; knowledge of the working properties of the common metals; selecting standard materials, parts, and equipment required for this work; and fitting and assembling parts into mechanical equipment. In general, the machinist's work normally requires a rounded

training in machine-shop practice usually acquired through a formal apprenticeship or equivalent training and experience.

## **MAINTENANCE MECHANIC, MACHINERY**

(613: Industrial machinery repairer)

Repairs machinery or mechanical equipment. Work involves *most of the following*: examining machines and mechanical equipment to diagnose source of trouble; dismantling or partly dismantling machines and performing repairs that mainly involve the use of handtools in scraping and fitting parts; replacing broken or defective parts with items obtained from stock; ordering the production of a replacement part by a machine shop or sending the machine to a machine shop for major repairs; preparing written specifications for major repairs or for the production of parts ordered from machine shops; reassembling machines; and making all necessary adjustments for operation. In general, the work of a machinery maintenance mechanic requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. Excluded from this classification are workers whose *primary duties* involve setting up or adjusting machines.

## **MAINTENANCE MECHANIC, MOTOR VEHICLE**

(611: Vehicle and mobile equipment mechanics and repairers)

Repairs, rebuilds, or overhauls major assemblies of internal combustion automobiles, buses, trucks, or tractors. Work involves most of the following: Diagnosing the source of trouble and determining the extent of repairs required; replacing worn or broken parts such as piston rings, bearings, or other engine parts; grinding and adjusting valves; rebuilding carburetors; overhauling transmissions; and repairing fuel injection, lighting, and ignition systems. In general, the work of the motor vehicle mechanic requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

This classification does not include mechanics who repair customers' vehicles or who only perform minor repair and tuneup of motor vehicles. It does, however, include fully qualified journeymen mechanics even though most of their time may be spent on minor repairs and tuneups.

## **MAINTENANCE PIPEFITTER**

(645: Plumber, pipefitter, and steamfitter)

Installs or repairs water, steam, gas, or other types of pipe and pipefittings. Work involves *most of the following*: laying out work and measuring to locate position of pipe from drawings or other written specifications; cutting various sizes of pipe to correct lengths with chisel and hammer or oxyacetylene torch or pipe-cutting machines; threading pipe with stocks and dies; bending pipe by hand-driven or power-driven machines; assembling pipe with couplings and fastening pipe to hangers; making standard shop computations relating to pressures, flow, and size of pipe required; and

making standard tests to determine whether finished pipes meet specifications. In general, the work of the maintenance pipefitter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. *Workers primarily engaged in installing and repairing building sanitation or heating systems are excluded.*

## **TOOL AND DIE MAKER**

(6811: Tool and die maker)

Constructs and repairs jigs, fixtures, cutting tools, gauges, or metal dies or molds used in shaping or forming metal or nonmetallic material (e.g., plastic, plaster, rubber, glass). *Work typically involves*: planning and laying out work according to models, blueprints, drawings, or other written or oral specifications; understanding the working properties of common metals and alloys; selecting appropriate materials, tools, and processes required to complete task; making necessary shop computations; setting up and operating various machine tools and related equipment; using various tool and die maker's handtools and precision measuring instruments; working to very close tolerances; heat-treating metal parts and finished tools and dies to achieve required qualities; fitting and assembling parts to prescribed tolerances and allowances. In general, the tool and die maker's work requires rounded training in machine-shop and toolroom practice usually acquired through formal apprenticeship or equivalent training and experience.

For cross-industry wage study purposes, this classification does not include tool and die makers who (1) are employed in tool and die jobbing shops or (2) produce forging dies (die sinkers).

# **Material Movement and Custodial**

## **FORKLIFT OPERATOR**

(8318: Industrial truck and tractor equipment operator)

Operates a manually controlled gasoline, electric or liquid propane gas powered forklift to transport goods and materials of all kinds about a warehouse, manufacturing plant, or other establishment.

## **GUARD**

(5144: Guard and police, except public service)

Protects property from theft or damage, or persons from hazards or interference. Duties involve serving at a fixed post, making rounds on foot or by motorized vehicle, or escorting persons or property. May be deputized to make arrests. May also help visitors and customers by answering questions and giving directions. May be required to demonstrate 1) proficiency in the use of firearms and other special weapons and 2) continuing physical fitness.

## Guard I

Carries out instructions primarily oriented toward insuring that emergencies and security violations are readily discovered and reported to appropriate authority. Intervenes directly only in situations that require minimal action to safeguard property or persons. Duties require minimal training.

## Guard II

Enforces regulations designed to prevent breaches of security. Exercises judgment and uses discretion in dealing with emergencies and security violations encountered. Determines whether first response should be to intervene directly (asking for assistance when deemed necessary and time allows), to keep situation under surveillance, or to report situation so that it can be handled by appropriate authority. Duties require specialized training in methods and techniques of protecting security areas.

## JANITOR

(5244: Janitor and cleaner)

Cleans and keeps in an orderly condition factory working areas and washrooms, or premises of an office, apartment house, or commercial or other establishment. Duties involve *a combination of the following*: Sweeping, mopping or scrubbing, and polishing floors; removing chips, trash, and other refuse; dusting equipment, furniture, or fixtures; polishing metal fixtures or trimmings; providing supplies and minor maintenance services; and cleaning lavatories, showers, and restrooms.

*Excluded are:*

- a. Workers who specialize in window washing;
- b. Housekeeping staff who make beds and change linens as a primary responsibility;
- c. Workers required to disassemble and assemble equipment in order to clean machinery; and
- d. Workers who receive additional compensation to maintain sterile facilities or equipment.

## MATERIAL HANDLING LABORER

(8726: Freight, stock, and material mover, not elsewhere classified)

Performs physical tasks to transport or store materials or merchandise. Duties involve *one or more of the following*: manually loading or unloading freight cars, trucks, or other transporting devices; unpacking, shelving, or placing items in proper storage locations; or transporting goods by handtruck, cart, or wheelbarrow.

*Excluded* from this definition are workers whose primary function involves:

- a. participating directly in the production of goods (e.g., moving items from one production station to another or placing them on or removing them from the production process);
- b. stocking merchandise for sale;
- c. counting or routing merchandise;
- d. operating a crane or heavy-duty motorized vehicle such as forklift or truck;
- e. loading and unloading ships (longshore workers); or
- f. traveling on trucks beyond the establishment's physical location to load or unload merchandise.

## ORDER FILLER

(4754: Stock and inventory clerk)

Fills shipping or transfer orders for finished goods from stored merchandise in accordance with specifications on sales slips, customers' orders, or other instructions. May, in addition to filling orders and indicating items filled or omitted, keep records of outgoing orders, requisition additional stock or report short supplies to supervisor, and perform other related duties.

## SHIPPING/RECEIVING CLERK

(4753: Traffic, shipping and receiving clerk)

Performs *clerical and physical* tasks in connection with shipping goods of the establishment in which employed *and/or* receiving incoming shipments. In performing day-to-day, routine tasks, follows established guidelines. In handling unusual nonroutine problems, receives specific guidance from supervisor or other officials. May direct and coordinate the activities of other workers engaged in handling goods to be shipped or being received.

*Shipping* duties typically involve the following: Verifying that orders are accurately filled by comparing items and quantities of goods gathered for shipment against documents; insuring that shipments are properly packaged, identified with shipping information, and loaded into transporting vehicles; and preparing and keeping records of goods shipped, e.g., manifests, bills of lading.

*Receiving* duties typically involve the following: Verifying the correctness of incoming shipments by comparing items and quantities unloaded against bills of lading, invoices, manifests, storage receipts, or other records; checking for damaged goods; insuring that goods are appropriately identified for routing to departments within the establishment; and preparing and keeping records of goods received.

## TRUCKDRIVER

(821: Motor vehicle operator)

Drives a truck within a city or industrial area to transport materials, merchandise, equipment, or workers between various types of establishments such as: Manufacturing plants, freight depots, warehouses, wholesale and retail establishments, or between retail establishments and customers' houses or places of business. May also load or unload truck with or without helpers, make minor mechanical repairs, and keep truck in good working order. *Routesales and over-the-road drivers are excluded.*

For wage study purposes, truckdrivers are classified by type and rated capacity of truck, as follows:

*Truckdriver, light truck*  
(straight truck, under 1 1/2 tons, usually 4 wheels)

*Truckdriver, medium truck*  
(straight truck, 1 1/2 to 4 tons inclusive, usually 6 wheels)

*Truckdriver, heavy truck*  
(straight truck, over 4 tons, usually 10 wheels)

*Truckdriver, tractor-trailer*

## WAREHOUSE SPECIALIST

(4754: Stock and inventory clerk)

As directed, performs a variety of warehousing duties which require an *understanding of the establishment's storage plan*. *Work involves most of the following:* Verifying materials (or merchandise) against receiving documents, noting and reporting discrepancies and obvious damages; routing materials to prescribed storage locations; storing, stacking, or palletizing materials in accordance with prescribed storage methods; rearranging and taking inventory of stored materials; examining stored materials and reporting deterioration and damage; removing material from storage and preparing it for shipment. May operate hand or power trucks in performing warehousing duties.

*Exclude* workers whose *primary* duties involve shipping and receiving work (see Shipping/Receiving Clerk), order filling (see Order Filler), or operating forklifts (see Forklift Operator).

# Occupational Compensation Survey Summaries

The following areas are surveyed periodically under contract to the Employment Standards Administration of the U.S. Department of Labor for its use in administering the Service Contract Act of 1965. Reports on the surveys shown below are available from any of the Bureau's regional offices while supplies last.

Alaska (statewide)  
Albany, GA  
Albany-Schenectady-Troy, NY  
Alexandria-Leesville, LA  
Alpena-Standish-Tawas City, MI  
Ann Arbor, MI  
Appleton-Oshkosh-Neenah and Green Bay, WI  
Asheville, NC  
Atlantic City, NJ  
Austin, TX  
Bakersfield, CA  
Baton Rouge, LA  
Battle Creek, MI  
Beaumont-Port Arthur and Lake Charles, TX-LA  
Biloxi-Gulfport and Pascagoula, MS  
Birmingham, AL  
Bloomington-Vincennes, IN  
Bremerton-Shelton, WA  
Brunswick, GA  
Buffalo, NY  
Cedar Rapids, IA  
Central New York  
Champaign-Urbana-Rantoul, IL

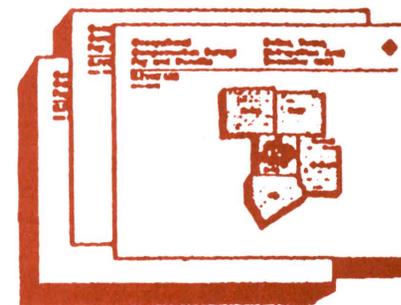
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Cheyenne, WY  
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Columbus, GA-AL  
Columbus, MS  
Connecticut (statewide)  
Corpus Christi, TX  
Daytona Beach, FL  
Decatur, IL  
Des Moines, IA  
Dothan, AL  
Duluth, MN-WI  
El Paso-Las Cruces-Alamogordo, TX-NM  
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Northwest Texas  
Northwestern Florida  
Omaha, NE-IA  
Orlando, FL  
Peoria, IL  
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Reno, NV  
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