

Utah Occupational Projections 2012-2022

SOC Code	Occupation Title	Star Rating	Employment Estimates		Annual Growth Rate	Annual Openings			Hourly Wages		Preparation		
			2012	2022		Growth	Replacements	Total	Inexperienced	Median	Education	Work Experience	Job Training
00-0000	Total, All Occupations		1,309,800	1,627,770	2.4%	32,120	30,610	62,730	\$9.50	\$16.00			
11-0000	Management Occupations		73,460	90,130	2.3%	1,690	1,460	3,150	\$21.80	\$39.30			
11-1000	Top Executives		26,620	33,010	2.4%	640	510	1,150					
11-1011	Chief Executives	5	3,080	3,640	1.8%	60	70	120	\$31.60	\$67.40	Bachelor's degree	5 years or more	None
11-1021	General and Operations Managers	5	22,950	28,680	2.5%	570	430	1,000	\$19.20	\$35.40	Bachelor's degree	Less than 5 years	None
11-1031	Legislators	1	590	700	1.8%	10	10	20			Bachelor's degree	Less than 5 years	None
11-2000	Advertising, Marketing, Promotions, Public Relations, and Sales Managers		5,280	6,600	2.5%	130	120	250					
11-2011	Advertising and Promotions Managers	3	190	240	2.5%	10	10	10	\$24.20	\$41.80	Bachelor's degree	Less than 5 years	None
11-2021	Marketing Managers	5	1,360	1,800	3.2%	40	30	70	\$33.00	\$58.00	Bachelor's degree	5 years or more	None
11-2022	Sales Managers	5	3,390	4,150	2.2%	80	70	150	\$24.90	\$37.40	Bachelor's degree	Less than 5 years	None
11-2031	Public Relations and Fundraising Managers	3	330	410	2.3%	10	10	10	\$25.20	\$39.10	Bachelor's degree	5 years or more	None
11-3000	Operations Specialties Managers		12,530	15,280	2.2%	280	230	510					
11-3011	Administrative Services Managers	5	1,640	1,980	2.1%	30	30	60	\$24.60	\$37.40	Bachelor's degree	Less than 5 years	None
11-3021	Computer and Information Systems Managers	5	2,680	3,510	3.1%	80	40	120	\$38.20	\$58.90	Bachelor's degree	5 years or more	None
11-3031	Financial Managers	5	3,810	4,640	2.2%	80	70	160	\$29.10	\$46.10	Bachelor's degree	5 years or more	None
11-3051	Industrial Production Managers	4	1,790	2,000	1.2%	20	30	50	\$28.00	\$42.70	Bachelor's degree	5 years or more	None
11-3061	Purchasing Managers	2	450	510	1.3%	10	10	20	\$31.70	\$46.50	Bachelor's degree	5 years or more	None
11-3071	Transportation, Storage, and Distribution Managers	4	1,000	1,180	1.7%	20	20	40	\$26.70	\$38.70	High school diploma or equivalent	5 years or more	None
11-3111	Compensation and Benefits Managers	2	120	150	2.0%	0	0	0	\$25.00	\$35.30	Bachelor's degree	5 years or more	None
11-3121	Human Resources Managers	4	810	1,030	2.8%	20	20	40	\$31.10	\$43.00	Bachelor's degree	5 years or more	None
11-3131	Training and Development Managers	3	240	290	2.1%	10	10	10	\$27.80	\$40.20	Bachelor's degree	5 years or more	None
11-9000	Other Management Occupations		29,040	35,240	2.1%	650	610	1,250					
11-9021	Construction Managers	5	3,490	4,510	2.9%	100	60	160	\$26.40	\$37.70	Bachelor's degree	None	Moderate-term on-the-job training
11-9031	Education Administrators, Preschool and Childcare Center/Program	3	230	270	1.9%	0	10	10	\$11.30	\$19.90	Bachelor's degree	Less than 5 years	None
11-9032	Education Administrators, Elementary and Secondary School	5	1,770	2,140	2.1%	40	50	80	\$63.30	\$84.140	Master's degree	5 years or more	None
11-9033	Education Administrators, Postsecondary	5	960	1,270	3.3%	30	30	60	\$27.00	\$44.20	Master's degree	5 years or more	None
11-9039	Education Administrators, All Other	3	180	220	2.2%	0	10	10	\$19.80	\$33.10	Bachelor's degree	Less than 5 years	None
11-9041	Architectural and Engineering Managers	5	1,330	1,620	2.1%	30	30	60	\$38.20	\$58.10	Bachelor's degree	5 years or more	None
11-9051	Food Service Managers	5	1,810	2,190	2.1%	40	30	70	\$17.60	\$23.50	High school diploma or equivalent	Less than 5 years	None
11-9081	Lodging Managers	3	630	730	1.6%	10	20	30	\$16.20	\$25.70	High school diploma or equivalent	Less than 5 years	None
11-9111	Medical and Health Services Managers	5	2,670	3,610	3.5%	100	60	160	\$27.20	\$40.20	Bachelor's degree	None	None
11-9121	Natural Sciences Managers	3	450	520	1.6%	10	10	20	\$31.30	\$43.00	Bachelor's degree	5 years or more	None
11-9131	Postmasters and Mail Superintendents	2	130	140	0.4%	0	0	0	\$24.80	\$33.00	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
11-9141	Property, Real Estate, and Community Association Managers	5	3,440	4,500	3.1%	110	80	180	\$13.20	\$24.20	High school diploma or equivalent	Less than 5 years	None
11-9151	Social and Community Service Managers	5	1,040	1,330	2.9%	30	20	50	\$18.20	\$27.30	Bachelor's degree	5 years or more	None
11-9161	Emergency Management Directors	2	200	230	1.6%	0	0	10	\$23.10	\$30.20	Bachelor's degree	5 years or more	None
11-9199	Managers, All Other	NR	5,710	7,120	2.5%	140	130	270	\$24.00	\$40.20	High school diploma or equivalent	Less than 5 years	None
13-0000	Business and Financial Operations Occupations		64,820	81,120	2.5%	1,670	1,320	2,980	\$17.50	\$27.70			
13-1000	Business Operations Specialists		38,590	49,110	2.7%	1,060	670	1,730					
13-1011	Agents and Business Managers of Artists, Performers, and Athletes	NR	60	80	3.3%	0	0	0	\$13.80	\$23.30	Bachelor's degree	Less than 5 years	None
13-1021	Buyers and Purchasing Agents, Farm Products	2	270	310	1.4%	0	10	10	\$17.40	\$25.60	High school diploma or equivalent	None	Long-term on-the-job training
13-1022	Wholesale and Retail Buyers, Except Farm Products	5	1,250	1,540	2.3%	30	30	60	\$15.80	\$22.70	High school diploma or equivalent	None	Long-term on-the-job training
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	5	2,350	2,700	1.5%	40	40	80	\$20.30	\$29.30	High school diploma or equivalent	None	Long-term on-the-job training
13-1031	Claims Adjusters, Examiners, and Investigators	5	1,570	1,860	1.8%	30	40	60	\$17.20	\$26.30	High school diploma or equivalent	None	Long-term on-the-job training
13-1032	Insurance Appraisers, Auto Damage	NR	50	60	1.1%	0	0	0	\$23.30	\$29.60	Postsecondary non-degree award	None	Moderate-term on-the-job training
13-1041	Compliance Officers	5	1,990	2,390	2.0%	40	40	80	\$18.80	\$27.20	Bachelor's degree	None	Moderate-term on-the-job training
13-1051	Cost Estimators	5	2,220	2,950	3.3%	70	70	150	\$17.80	\$29.20	Bachelor's degree	None	None
13-1071	Human Resources Specialists	5	4,340	5,320	2.3%	100	80	180	\$17.10	\$24.40	Bachelor's degree	None	None
13-1075	Labor Relations Specialists	2	430	490	0.2%	0	10	10	\$9.40	\$24.90	Bachelor's degree	None	None
13-1081	Logisticians	5	1,800	2,230	2.4%	40	20	60	\$24.20	\$34.20	Bachelor's degree	None	None
13-1111	Management Analysts	5	6,190	8,470	3.7%	230	100	330	\$20.90	\$33.80	Bachelor's degree	Less than 5 years	None
13-1121	Meeting, Convention, and Event Planners	4	850	1,280	5.1%	40	10	60	\$13.70	\$19.00	Bachelor's degree	None	None
13-1131	Fundraisers	4	640	810	2.6%	20	10	30	\$11.90	\$22.30	Bachelor's degree	None	None
13-1141	Compensation, Benefits, and Job Analysis Specialists	3	510	590	1.6%	10	10	20	\$17.30	\$25.80	Bachelor's degree	None	None
13-1151	Training and Development Specialists	5	2,740	3,560	3.0%	80	50	130	\$16.20	\$24.00	Bachelor's degree	Less than 5 years	None
13-1161	Market Research Analysts and Marketing Specialists	5	4,630	7,100	5.3%	250	60	310	\$15.60	\$25.90	Bachelor's degree	None	None
13-1199	Business Operations Specialists, All Other	NR	6,650	7,390	1.1%	80	90	180	\$19.60	\$31.00	High school diploma or equivalent	None	None
13-2000	Financial Specialists		26,230	32,010	2.2%	610	650	1,250					
13-2011	Accountants and Auditors	5	10,570	13,570	2.8%	300	310	610	\$20.90	\$29.70	Bachelor's degree	None	None
13-2021	Appraisers and Assessors of Real Estate	3	830	1,010	2.2%	20	10	30	\$12.30	\$21.40	Bachelor's degree	None	Long-term on-the-job training
13-2031	Budget Analysts	3	380	440	1.6%	10	20	20	\$16.30	\$23.80	Bachelor's degree	None	None
13-2041	Credit Analysts	4	890	1,160	3.0%	30	20	50	\$16.40	\$21.90	Bachelor's degree	None	None
13-2051	Financial Analysts	5	1,770	2,190	2.4%	40	40	90	\$22.50	\$34.70	Bachelor's degree	None	None
13-2052	Personal Financial Advisors	4	1,820	2,030	1.1%	20	30	50	\$18.30	\$29.80	Bachelor's degree	None	None
13-2053	Insurance Underwriters	2	270	300	0.8%	0	10	10	\$16.50	\$23.90	Bachelor's degree	None	Moderate-term on-the-job training
13-2061	Financial Examiners	3	390	480	2.4%	10	10	20	\$20.30	\$32.60	Bachelor's degree	None	Moderate-term on-the-job training
13-2071	Credit Counselors	1	610	970	5.9%	30	10	40	\$10.40	\$11.70	Bachelor's degree	None	Moderate-term on-the-job training
13-2072	Loan Officers	5	4,430	5,460	2.3%	100	80	180	\$15.50	\$27.30	Bachelor's degree	None	Moderate-term on-the-job training
13-2081	Tax Examiners and Collectors, and Revenue Agents	3	2,290	2,040	-1.1%	0	80	80	\$17.40	\$21.30	Bachelor's degree	None	Moderate-term on-the-job training
13-2082	Tax Preparers	4	850	1,120	3.1%	30	20	40	\$12.50	\$18.20	High school diploma or equivalent	None	Moderate-term on-the-job training
13-2099	Financial Specialists, All Other	NR	1,130	1,250	1.1%	20	10	30	\$18.20	\$28.50	Bachelor's degree	None	Moderate-term on-the-job training

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			2012	2022		Growth	Replacements	Total	Inexperienced	Median	Education	Work Experience	Job Training
15-0000	Computer and Mathematical Occupations		36,460	48,170	3.2%	1,180	610	1,790	\$19.80	\$33.80			
15-1100	Computer Occupations		35,550	46,910	3.2%	1,140	580	1,730					
15-1111	Computer and Information Research Scientists	2	620	700	1.2%	10	10	20	\$28.00	\$89.50	Doctoral or professional degree	None	None
15-1121	Computer Systems Analysts	5	3,320	4,590	3.8%	130	50	180	\$23.30	\$34.30	Bachelor's degree	None	None
15-1122	Information Security Analysts	5	580	880	5.1%	30	10	40	\$22.00	\$34.10	Bachelor's degree	Less than 5 years	None
15-1131	Computer Programmers	5	5,010	6,080	2.1%	110	130	240	\$22.80	\$36.60	Bachelor's degree	None	None
15-1132	Software Developers, Applications	5	6,440	9,080	4.1%	260	80	350	\$27.60	\$41.00	Bachelor's degree	None	None
15-1133	Software Developers, Systems Software	5	3,120	4,240	3.6%	110	40	150	\$29.90	\$43.70	Bachelor's degree	None	None
15-1134	Web Developers	5	2,480	3,440	3.9%	100	40	130	\$14.70	\$24.80	Associate's degree	None	None
15-1141	Database Administrators	5	950	1,240	3.0%	30	20	40	\$22.80	\$39.00	Bachelor's degree	Less than 5 years	None
15-1142	Network and Computer Systems Administrators	5	3,190	3,990	2.5%	80	50	130	\$23.20	\$33.30	Bachelor's degree	None	None
15-1143	Computer Network Architects	3	560	690	2.3%	10	10	20	\$28.40	\$41.20	Bachelor's degree	5 years or more	None
15-1151	Computer User Support Specialists	4	5,980	8,280	3.9%	230	90	320	\$13.90	\$21.20	Some college, no degree	None	Moderate-term on-the-job training
15-1152	Computer Network Support Specialists	4	1,440	1,720	1.9%	30	20	50	\$17.80	\$27.70	Associate's degree	None	None
15-1199	Computer Occupations, All Other	NR	1,860	2,020	0.9%	20	30	50	\$19.20	\$35.60	Bachelor's degree	None	None
15-2000	Mathematical Science Occupations		910	1,250	3.8%	30	20	60					
15-2011	Actuaries	3	140	170	2.1%	0	0	10	\$18.60	\$21.90	Bachelor's degree	None	Long-term on-the-job training
15-2031	Operations Research Analysts	5	580	820	4.1%	20	10	40	\$19.90	\$31.40	Bachelor's degree	None	None
15-2041	Statisticians	4	180	260	4.2%	10	10	10	\$23.90	\$32.30	Master's degree	None	None
17-0000	Architecture and Engineering Occupations		25,200	30,260	2.0%	520	590	1,110	\$21.50	\$33.40			
17-1000	Architects, Surveyors, and Cartographers		1,520	1,980	3.0%	50	30	80					
17-1011	Architects, Except Landscape and Naval	5	770	1,040	3.5%	30	20	40	\$21.00	\$35.80	Bachelor's degree	None	Internship/residency
17-1012	Landscape Architects	3	160	210	2.9%	0	0	10	\$24.10	\$37.10	Bachelor's degree	None	Internship/residency
17-1021	Cartographers and Photogrammetrists	3	190	250	2.8%	10	0	10	\$19.30	\$28.10	Bachelor's degree	None	None
17-1022	Surveyors	3	400	490	2.1%	10	10	20	\$20.90	\$29.60	Bachelor's degree	Less than 5 years	None
17-2000	Engineers		16,120	19,650	2.2%	360	420	780					
17-2011	Aerospace Engineers	4	540	700	2.9%	20	10	30	\$25.40	\$36.40	Bachelor's degree	None	None
17-2031	Biomedical Engineers	5	440	730	6.7%	30	10	40	\$27.70	\$41.90	Bachelor's degree	None	None
17-2041	Chemical Engineers	4	260	350	3.5%	10	10	20	\$27.80	\$37.50	Bachelor's degree	None	None
17-2051	Civil Engineers	5	2,970	4,040	3.6%	110	70	180	\$26.60	\$35.60	Bachelor's degree	None	None
17-2071	Electrical Engineers	5	1,900	2,260	1.9%	40	40	80	\$28.80	\$42.10	Bachelor's degree	None	None
17-2072	Electronics Engineers, Except Computer	4	1,940	2,120	0.9%	20	40	70	\$28.10	\$39.30	Bachelor's degree	None	None
17-2081	Environmental Engineers	3	460	570	2.3%	10	10	20	\$27.60	\$36.90	Bachelor's degree	None	None
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	3	230	290	2.4%	10	10	10	\$25.80	\$36.60	Bachelor's degree	None	None
17-2112	Industrial Engineers	5	1,790	2,150	2.0%	40	50	90	\$27.40	\$37.20	Bachelor's degree	None	None
17-2131	Materials Engineers	3	380	490	2.5%	10	10	20	\$25.60	\$36.30	Bachelor's degree	None	None
17-2141	Mechanical Engineers	5	2,920	3,550	2.2%	60	100	160	\$26.70	\$35.80	Bachelor's degree	None	None
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	2	210	230	0.7%	0	0	10	\$30.60	\$38.30	Bachelor's degree	None	None
17-2171	Petroleum Engineers	3	180	230	2.9%	10	10	10	\$29.00	\$41.30	Bachelor's degree	None	None
17-2199	Engineers, All Other	NR	460	490	0.7%	10	10	10	\$23.00	\$43.30	Bachelor's degree	None	None
17-3000	Drafters, Engineering Technicians, and Mapping Technicians		7,560	8,640	1.4%	110	140	250					
17-3011	Architectural and Civil Drafters	3	1,720	1,940	1.3%	20	20	50	\$17.10	\$21.70	Associate's degree	None	None
17-3012	Electrical and Electronics Drafters	2	270	310	1.7%	10	0	10	\$17.90	\$28.70	Associate's degree	None	None
17-3013	Mechanical Drafters	3	570	680	1.8%	10	10	20	\$15.50	\$22.30	Associate's degree	None	None
17-3019	Drafters, All Other	3	130	180	3.4%	0	0	10	\$10.30	\$15.70	Associate's degree	None	None
17-3021	Aerospace Engineering and Operations Technicians	NR	80	90	0.7%	0	0	0	\$25.60	\$29.90	Associate's degree	None	None
17-3022	Civil Engineering Technicians	3	540	630	1.6%	10	10	20	\$15.80	\$22.40	Associate's degree	None	None
17-3023	Electrical and Electronics Engineering Technicians	4	1,770	1,990	1.2%	20	40	60	\$18.00	\$27.30	Associate's degree	None	None
17-3024	Electro-Mechanical Technicians	3	140	180	3.0%	0	0	10	\$16.40	\$23.80	Associate's degree	None	None
17-3025	Environmental Engineering Technicians	3	360	370	0.3%	10	10	10	\$16.10	\$20.40	Associate's degree	None	None
17-3026	Industrial Engineering Technicians	2	690	750	0.9%	10	10	20	\$18.90	\$28.50	Associate's degree	None	None
17-3027	Mechanical Engineering Technicians	3	630	720	1.4%	10	10	20	\$17.50	\$24.40	Associate's degree	None	None
17-3029	Engineering Technicians, Except Drafters, All Other	2	380	380	0.2%	0	10	10	\$21.40	\$31.30	Associate's degree	None	None
17-3031	Surveying and Mapping Technicians	3	340	430	2.8%	10	10	20	\$13.90	\$22.00	High school diploma or equivalent	None	Moderate-term on-the-job training

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19-0000	Life, Physical, and Social Science Occupations		10,440	12,830	2.3%	240	320	550	\$14.70	\$24.70			
19-1000	Life Scientists		1,870	2,220	1.9%	30	50	80					
19-1012	Food Scientists and Technologists	NR	80	100	1.9%	0	0	0	\$17.90	\$22.00	Bachelor's degree	None	None
19-1013	Soil and Plant Scientists	NR	80	90	0.8%	0	0	0	\$19.50	\$27.60	Bachelor's degree	None	None
19-1021	Biochemists and Biophysicists	4	190	270	14.1%	10	10	10	\$14.70	\$21.00	Doctoral or professional degree	None	None
19-1022	Microbiologists	3	150	190	3.0%	10	0	10	\$15.10	\$23.90	Bachelor's degree	None	None
19-1023	Zoologists and Wildlife Biologists	2	330	370	1.2%	0	10	10	\$18.40	\$25.10	Bachelor's degree	None	None
19-1029	Biological Scientists, All Other	2	240	250	0.2%	0	10	10	\$17.80	\$30.40	Bachelor's degree	None	None
19-1031	Conservation Scientists	2	280	290	0.7%	0	10	10	\$19.50	\$30.40	Bachelor's degree	None	None
19-1032	Foresters	NR	80	90	1.6%	0	0	0	\$20.00	\$25.90	Bachelor's degree	None	None
19-1042	Medical Scientists, Except Epidemiologists	4	320	430	3.5%	10	10	20	\$28.10	\$39.00	Doctoral or professional degree	None	None
19-2000	Physical Scientists		2,130	2,610	2.2%	50	60	110					
19-2021	Atmospheric and Space Scientists	3	110	150	3.3%	0	0	10	\$28.40	\$40.60	Bachelor's degree	None	None
19-2031	Chemists	4	660	820	2.4%	20	20	30	\$23.20	\$32.60	Bachelor's degree	None	None
19-2032	Materials Scientists	3	110	130	2.2%	0	0	0	\$28.70	\$35.80	Bachelor's degree	None	None
19-2041	Environmental Scientists and Specialists, Including Health	4	660	820	2.4%	20	20	40	\$23.00	\$30.60	Bachelor's degree	None	None
19-2042	Geoscientists, Except Hydrologists and Geographers	3	340	410	2.2%	10	10	20	\$23.10	\$32.80	Bachelor's degree	None	None
19-2043	Hydrologists	NR	50	60	1.0%	0	0	0	\$26.70	\$35.90	Master's degree	None	None
19-2099	Physical Scientists, All Other	NR	170	180	0.9%	0	0	0	\$26.70	\$42.00	Bachelor's degree	None	None
19-3000	Social Scientists and Related Workers		2,470	3,120	2.6%	70	70	140					
19-3011	Economists	NR	50	50	0.7%	0	0	0	\$23.10	\$34.10	Master's degree	None	None
19-3022	Survey Researchers	3	120	160	3.3%	0	0	10	\$10.40	\$17.40	Master's degree	None	None
19-3031	Clinical, Counseling, and School Psychologists	5	1,440	1,800	2.5%	40	40	80	\$17.20	\$28.50	Doctoral or professional degree	None	Internship/residency
19-3039	Psychologists, All Other	NR	60	70	2.4%	0	0	0	\$20.70	\$40.60	Master's degree	None	Internship/residency
19-3051	Urban and Regional Planners	4	490	600	2.2%	10	20	30	\$19.20	\$27.20	Master's degree	None	None
19-3091	Anthropologists and Archeologists	4	140	190	3.5%	10	0	10	\$20.40	\$29.60	Master's degree	None	None
19-3092	Geographers	NR	60	130	10.5%	10	0	10	\$15.00	\$21.80	Bachelor's degree	None	None
19-3093	Historians	NR	40	50	2.5%	0	0	0	\$9.10	\$11.20	Master's degree	None	None
19-3099	Social Scientists and Related Workers, All Other	NR	70	70	0.0%	0	0	0	\$20.60	\$31.30	Bachelor's degree	None	None
19-4000	Life, Physical, and Social Science Technicians		3,980	4,880	2.3%	90	130	220					
19-4021	Biological Technicians	4	570	750	3.1%	20	20	30	\$12.60	\$17.50	Bachelor's degree	None	None
19-4031	Chemical Technicians	4	1,020	1,410	3.8%	40	30	60	\$13.70	\$19.30	Associate's degree	None	Moderate-term on-the-job training
19-4041	Geological and Petroleum Technicians	2	150	170	1.8%	0	10	10	\$16.30	\$25.70	Associate's degree	None	Moderate-term on-the-job training
19-4061	Social Science Research Assistants	4	150	210	3.6%	10	10	10	\$13.90	\$21.30	Associate's degree	None	None
19-4091	Environmental Science and Protection Technicians, Including Health	4	420	540	2.9%	10	20	30	\$16.00	\$22.10	Associate's degree	None	None
19-4092	Forensic Science Technicians	2	170	200	1.7%	0	10	10	\$17.40	\$22.70	Bachelor's degree	None	Moderate-term on-the-job training
19-4093	Forest and Conservation Technicians	3	1,130	1,170	0.3%	0	40	50	\$11.00	\$13.50	Associate's degree	None	None
19-4099	Life, Physical, and Social Science Technicians, All Other	NR	260	300	1.6%	0	10	10	\$15.40	\$24.30	Associate's degree	None	None
21-0000	Community and Social Service Occupations		19,140	25,140	3.1%	600	450	1,050	\$10.70	\$17.40			
21-1000	Counselors, Social Workers, and Other Community and Social Service Specialists		18,020	23,810	3.2%	580	420	1,000					
21-1011	Substance Abuse and Behavioral Disorder Counselors	4	420	580	3.8%	20	10	20	\$18.10	\$22.20	High school diploma or equivalent	None	Moderate-term on-the-job training
21-1012	Educational, Guidance, School, and Vocational Counselors	4	2,760	3,490	2.7%	70	60	130	\$15.30	\$22.30	Master's degree	None	None
21-1013	Marriage and Family Therapists	5	230	340	4.9%	10	0	10	\$15.70	\$23.50	Master's degree	None	Internship/residency
21-1014	Mental Health Counselors	5	1,100	1,550	4.1%	40	20	70	\$16.30	\$22.90	Master's degree	None	Internship/residency
21-1015	Rehabilitation Counselors	4	1,080	1,360	2.6%	30	20	50	\$14.60	\$22.10	Master's degree	None	None
21-1019	Counselors, All Other	3	490	560	1.6%	10	10	20	\$16.00	\$17.80	Master's degree	None	None
21-1021	Child, Family, and School Social Workers	4	1,200	1,640	3.7%	40	30	70	\$12.10	\$18.00	Bachelor's degree	None	None
21-1022	Healthcare Social Workers	5	1,060	1,490	4.0%	40	20	70	\$19.50	\$26.40	Master's degree	None	None
21-1023	Mental Health and Substance Abuse Social Workers	4	1,580	2,140	3.5%	60	30	90	\$12.80	\$18.80	Bachelor's degree	None	None
21-1029	Social Workers, All Other	2	470	510	0.8%	0	10	10	\$16.60	\$18.80	Bachelor's degree	None	None
21-1091	Health Educators	4	350	450	3.0%	10	10	20	\$16.40	\$23.90	Bachelor's degree	None	None
21-1092	Probation Officers and Correctional Treatment Specialists	2	530	550	0.4%	0	10	10	\$18.60	\$22.70	Bachelor's degree	None	Short-term on-the-job training
21-1093	Social and Human Service Assistants	1	6,150	8,400	3.7%	230	160	390	\$9.10	\$11.40	High school diploma or equivalent	None	Short-term on-the-job training
21-1094	Community Health Workers	3	620	630	0.2%	10	10	20	\$13.20	\$19.00	High school diploma or equivalent	None	Short-term on-the-job training
21-1099	Community and Social Service Specialists, All Other	NR	100	130	2.9%	0	0	0	\$17.00	\$20.40	Master's degree	None	None
21-2000	Religious Workers		1,120	1,330	1.9%	20	30	50					
21-2011	Clergy	3	520	630	2.2%	10	10	20	\$13.00	\$20.90	Bachelor's degree	None	Moderate-term on-the-job training
23-0000	Legal Occupations		9,520	12,010	2.6%	250	150	400	\$17.80	\$33.50			
23-1000	Lawyers, Judges, and Related Workers		6,570	8,220	2.5%	170	110	270					
23-1011	Lawyers	5	5,890	7,470	2.7%	160	100	250	\$30.40	\$48.40	Doctoral or professional degree	None	None
23-1012	Judicial Law Clerks	0	370	410	1.0%	0	10	10	\$13.80	\$14.70	Doctoral or professional degree	None	None
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	2	150	160	0.3%	0	0	0	\$20.20	\$32.30	Doctoral or professional degree	Less than 5 years	Short-term on-the-job training
23-1023	Judges, Magistrate Judges, and Magistrates	2	130	150	1.3%	0	0	0	\$16.90	\$41.70	Doctoral or professional degree	5 years or more	Short-term on-the-job training
23-2000	Legal Support Workers		2,950	3,780	2.8%	80	50	130					
23-2011	Paralegals and Legal Assistants	4	1,930	2,530	3.1%	60	30	90	\$13.60	\$19.30	Associate's degree	None	None
23-2091	Court Reporters	NR	70	90	3.6%	0	0	0	\$11.80	\$14.20	Postsecondary non-degree award	None	Short-term on-the-job training
23-2093	Title Examiners, Abstractors, and Searchers	4	790	970	2.4%	20	10	30	\$14.80	\$20.40	High school diploma or equivalent	None	Short-term on-the-job training
23-2099	Legal Support Workers, All Other	NR	160	190	1.8%	0	0	0	\$16.40	\$18.80	High school diploma or equivalent	None	Short-term on-the-job training

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			2012	2022		Growth	Replacements	Total	Inexperienced	Median	Education	Work Experience	Job Training
25-0000	Education, Training, and Library Occupations		77,680	99,060	2.8%	2,140	1,570	3,720	\$10.40	\$18.20			
25-1000	Postsecondary Teachers		16,180	22,360	3.8%	620	240	860					
25-1011	Business Teachers, Postsecondary	5	810	1,080	3.3%	30	10	40	\$37.773	\$66.959 *	Doctoral or professional degree	None	None
25-1021	Computer Science Teachers, Postsecondary	4	610	800	3.2%	20	10	30	\$41.150	\$71.852 *	Doctoral or professional degree	None	None
25-1022	Mathematical Science Teachers, Postsecondary	4	470	620	3.1%	20	10	20	\$39.788	\$60.443 *	Doctoral or professional degree	None	None
25-1031	Architecture Teachers, Postsecondary	NR	60	90	4.0%	0	0	0	\$49.321	\$69.804 *	Doctoral or professional degree	None	None
25-1032	Engineering Teachers, Postsecondary	4	400	520	2.9%	10	10	20	\$69.965	\$96.746 *	Doctoral or professional degree	None	None
25-1041	Agricultural Sciences Teachers, Postsecondary	NR	80	90	1.2%	0	0	0	\$46.641	\$61.623 *	Doctoral or professional degree	None	None
25-1042	Biological Science Teachers, Postsecondary	5	610	840	3.8%	20	10	30	\$47.214	\$75.094 *	Doctoral or professional degree	None	None
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	4	160	230	3.9%	10	0	10			Doctoral or professional degree	None	None
25-1052	Chemistry Teachers, Postsecondary	4	160	210	3.5%	0	0	10	\$50.703	\$77.928 *	Doctoral or professional degree	None	None
25-1054	Physics Teachers, Postsecondary	3	160	210	3.1%	0	0	10	\$57.255	\$81.219 *	Doctoral or professional degree	None	None
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	NR	40	60	3.3%	0	0	0	\$36.299	\$51.951 *	Doctoral or professional degree	None	None
25-1063	Economics Teachers, Postsecondary	3	100	130	3.2%	0	0	0	\$62.136	\$90.442 *	Doctoral or professional degree	None	None
25-1064	Geography Teachers, Postsecondary	NR	60	70	2.7%	0	0	0	\$51.239	\$70.061 *	Doctoral or professional degree	None	None
25-1065	Political Science Teachers, Postsecondary	3	150	200	3.3%	0	0	10	\$48.426	\$69.809 *	Doctoral or professional degree	None	None
25-1066	Psychology Teachers, Postsecondary	4	310	420	3.5%	10	0	10	\$32.114	\$59.861 *	Doctoral or professional degree	None	None
25-1067	Sociology Teachers, Postsecondary	3	170	220	3.0%	10	0	10	\$37.623	\$57.729 *	Doctoral or professional degree	None	None
25-1071	Health Specialties Teachers, Postsecondary	5	2,220	3,670	6.5%	140	30	180	\$48.994	\$105.240 *	Doctoral or professional degree	Less than 5 years	None
25-1072	Nursing Instructors and Teachers, Postsecondary	5	640	990	5.5%	40	10	40	\$40.518	\$61.351 *	Master's degree	Less than 5 years	None
25-1081	Education Teachers, Postsecondary	4	530	730	3.6%	20	10	30	\$33.810	\$56.264 *	Doctoral or professional degree	None	None
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	3	190	240	3.4%	10	0	10	\$31.099	\$52.921 *	Doctoral or professional degree	None	None
25-1121	Art, Drama, and Music Teachers, Postsecondary	5	1,070	1,460	2.6%	40	20	60	\$30.565	\$50.837 *	Master's degree	None	None
25-1122	Communications Teachers, Postsecondary	4	410	540	3.2%	10	10	20	\$30.124	\$47.807 *	Doctoral or professional degree	None	None
25-1123	English Language and Literature Teachers, Postsecondary	5	850	1,130	3.3%	30	10	40	\$38.214	\$56.408 *	Doctoral or professional degree	None	None
25-1124	Foreign Language and Literature Teachers, Postsecondary	3	310	390	2.9%	10	0	10	\$32.772	\$56.124 *	Doctoral or professional degree	None	None
25-1125	History Teachers, Postsecondary	3	200	260	3.2%	10	0	10	\$37.450	\$62.831 *	Doctoral or professional degree	None	None
25-1126	Philosophy and Religion Teachers, Postsecondary	3	390	500	2.6%	10	10	20	\$53.157	\$70.307 *	Doctoral or professional degree	None	None
25-1191	Graduate Teaching Assistants	4	560	750	3.3%	20	10	30	\$25.133	\$40.237 *	Bachelor's degree	None	None
25-1192	Home Economics Teachers, Postsecondary	3	190	240	2.7%	10	0	10	\$44.333	\$66.702 *	Master's degree	None	None
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	4	390	520	3.5%	20	10	20	\$29.062	\$53.766 *	Doctoral or professional degree	None	None
25-1194	Vocational Education Teachers, Postsecondary	4	2,370	3,080	3.0%	70	40	110	\$12.40	\$19.40	Bachelor's degree	Less than 5 years	None
25-2000	Preschool, Primary, Secondary, and Special Education School Teachers		33,190	41,860	2.6%	870	770	1,640					
25-2011	Preschool Teachers, Except Special Education	1	1,460	1,760	2.1%	30	40	70	\$8.10	\$10.20	Associate's degree	None	None
25-2012	Kindergarten Teachers, Except Special Education	4	1,050	1,340	2.8%	30	30	60	\$25.905	\$38.699 *	Bachelor's degree	None	Internship/residency
25-2021	Elementary School Teachers, Except Special Education	5	15,030	19,460	2.9%	440	330	770	\$33.352	\$48.955 *	Bachelor's degree	None	Internship/residency
25-2022	Middle School Teachers, Except Special and Career/Technical Education	5	4,710	6,030	2.8%	130	100	240	\$36.764	\$51.817 *	Bachelor's degree	None	Internship/residency
25-2023	Career/Technical Education Teachers, Middle School	NR	80	90	2.3%	0	0	0	\$32.861	\$55.204 *	Bachelor's degree	Less than 5 years	Internship/residency
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	5	6,960	8,470	2.2%	150	190	340	\$36.277	\$53.052 *	Bachelor's degree	None	Internship/residency
25-2032	Career/Technical Education Teachers, Secondary School	3	470	570	2.2%	10	10	20	\$32.515	\$50.109 *	Bachelor's degree	Less than 5 years	Internship/residency
25-2052	Special Education Teachers, Kindergarten and Elementary School	4	1,980	2,390	2.1%	40	30	80	\$27.513	\$45.301 *	Bachelor's degree	None	Internship/residency
25-2053	Special Education Teachers, Middle School	3	530	630	2.0%	10	10	20	\$22.761	\$38.292 *	Bachelor's degree	None	Internship/residency
25-2054	Special Education Teachers, Secondary School	3	890	1,060	1.9%	20	10	30	\$33.477	\$51.838 *	Bachelor's degree	None	Internship/residency
25-3000	Other Teachers and Instructors		11,900	14,890	2.5%	300	200	500					
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	3	250	310	2.7%	10	0	10	\$10.70	\$19.50	Bachelor's degree	None	Internship/residency
25-3021	Self-Enrichment Education Teachers	3	3,670	4,960	3.5%	130	60	190	\$10.00	\$15.00	High school diploma or equivalent	Less than 5 years	None
25-3098	Substitute Teachers	1	5,720	6,760	1.8%	110	100	200	\$8.20	\$10.80	Bachelor's degree	None	Internship/residency
25-3099	Teachers and Instructors, All Other	NR	2,270	2,860	2.6%	60	40	100	\$19.147	\$24.108 *	Bachelor's degree	None	Internship/residency
25-4000	Librarians, Curators, and Archivists		1,710	2,100	2.3%	40	60	100					
25-4011	Archivists	NR	40	50	2.0%	0	0	0	\$15.90	\$19.60	Master's degree	None	None
25-4012	Curators	3	100	120	2.6%	0	0	0	\$15.90	\$22.30	Master's degree	None	None
25-4021	Librarians	4	810	990	2.3%	20	20	40	\$18.80	\$25.10	Master's degree	None	None
25-4031	Library Technicians	3	740	900	2.1%	10	40	50	\$10.20	\$14.60	Postsecondary non-degree award	None	None
25-9000	Other Education, Training, and Library Occupations		14,700	17,850	2.1%	320	300	620					
25-9011	Audio-Visual and Multimedia Collections Specialists	0	320	350	1.1%	0	0	10	\$10.80	\$13.40	Bachelor's degree	Less than 5 years	None
25-9021	Farm and Home Management Advisors	2	100	120	1.7%	0	0	0	\$19.00	\$26.40	Master's degree	None	None
25-9031	Instructional Coordinators	5	1,600	2,020	2.6%	40	10	60	\$15.20	\$26.00	Master's degree	5 years or more	None
25-9041	Teacher Assistants	1	12,410	15,050	2.1%	270	280	550	\$18.772	\$23.295 *	Some college, no degree	None	None
25-9099	Education, Training, and Library Workers, All Other	NR	280	310	1.0%	0	0	0	\$14.60	\$22.40	Bachelor's degree	None	None

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			2012	2022		Growth	Replacements	Total	Inexperienced	Median	Education	Work Experience	Job Training
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations		20,830	26,060	2.5%	530	490	1,020	\$10.40	\$18.40			
27-1000	Art and Design Workers		7,320	9,150	2.5%	180	190	370					
27-1011	Art Directors	3	490	610	2.4%	10	10	20	\$19.70	\$29.50	Bachelor's degree	5 years or more	None
27-1012	Craft Artists	1	270	330	2.3%	10	10	10	\$8.20	\$9.70	High school diploma or equivalent	None	Long-term on-the-job training
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	3	420	540	2.7%	10	10	20	\$8.70	\$16.80	High school diploma or equivalent	None	Long-term on-the-job training
27-1014	Multimedia Artists and Animators	2	260	300	1.8%	10	10	10	\$18.50	\$28.70	Bachelor's degree	None	Moderate-term on-the-job training
27-1021	Commercial and Industrial Designers	4	370	480	3.0%	10	10	20	\$12.90	\$20.90	Bachelor's degree	None	None
27-1022	Fashion Designers	3	140	170	2.6%	0	0	10	\$11.90	\$19.60	Bachelor's degree	None	None
27-1023	Floral Designers	1	1,030	1,180	1.5%	10	30	40	\$8.10	\$10.50	High school diploma or equivalent	None	Moderate-term on-the-job training
27-1024	Graphic Designers	4	3,010	3,860	2.8%	90	80	170	\$13.90	\$20.00	Bachelor's degree	None	None
27-1025	Interior Designers	4	260	340	3.2%	10	10	20	\$12.50	\$22.20	Bachelor's degree	None	None
27-1026	Merchandise Displayers and Window Trimmers	3	840	1,030	2.2%	20	20	40	\$10.80	\$13.80	High school diploma or equivalent	None	Moderate-term on-the-job training
27-1027	Set and Exhibit Designers	3	100	130	3.1%	0	0	10	\$12.60	\$17.00	Bachelor's degree	None	None
27-2000	Entertainers and Performers, Sports and Related Workers		4,480	5,810	3.0%	130	130	260					
27-2011	Actors	1	280	400	4.1%	10	10	20	\$8.80	\$11.30	Some college, no degree	None	Long-term on-the-job training
27-2012	Producers and Directors	4	540	680	2.7%	10	20	30	\$15.10	\$23.00	Bachelor's degree	Less than 5 years	None
27-2021	Athletes and Sports Competitors	4	230	300	3.0%	10	10	10	\$24.090	\$70.397 *	High school diploma or equivalent	None	Long-term on-the-job training
27-2022	Coaches and Scouts	1	1,840	2,400	3.1%	60	50	110	\$17.390	\$41.270 *	Bachelor's degree	None	None
27-2023	Umpires, Referees, and Other Sports Officials	1	450	570	2.6%	10	10	30	\$16.813	\$22.437 *	High school diploma or equivalent	None	Moderate-term on-the-job training
27-2031	Dancers	1	170	220	3.3%	10	0	10	\$13.20	\$16.30	High school diploma or equivalent	None	Long-term on-the-job training
27-2032	Choreographers	NR	70	90	3.7%	0	0	0	\$11.90	\$21.40	High school diploma or equivalent	5 years or more	Long-term on-the-job training
27-2041	Music Directors and Composers	2	120	140	1.9%	0	0	0	\$10.70	\$17.70	Bachelor's degree	Less than 5 years	None
27-2042	Musicians and Singers	1	520	640	2.3%	10	20	30	\$9.90	\$29.90	High school diploma or equivalent	None	Long-term on-the-job training
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	NR	270	370	3.6%	10	0	10	\$11.40	\$16.70	High school diploma or equivalent	None	None
27-3000	Media and Communication Workers		6,070	7,440	2.3%	150	130	280					
27-3011	Radio and Television Announcers	0	430	460	0.7%	0	10	10	\$11.10	\$16.90	Bachelor's degree	None	None
27-3021	Broadcast News Analysts	NR	70	70	0.1%	0	0	0	\$13.40	\$24.10	Bachelor's degree	None	None
27-3022	Reporters and Correspondents	2	610	570	-0.8%	0	20	20	\$10.40	\$20.70	Bachelor's degree	None	None
27-3031	Public Relations Specialists	5	1,730	2,210	2.8%	50	20	70	\$16.80	\$25.80	Bachelor's degree	None	None
27-3041	Editors	3	730	860	1.8%	10	20	30	\$11.90	\$21.30	Bachelor's degree	Less than 5 years	None
27-3042	Technical Writers	4	730	890	2.2%	20	20	40	\$18.30	\$29.00	Bachelor's degree	Less than 5 years	Short-term on-the-job training
27-3043	Writers and Authors	4	1,110	1,370	2.3%	30	20	50	\$13.40	\$20.80	Bachelor's degree	None	Moderate-term on-the-job training
27-3091	Interpreters and Translators	4	590	940	5.9%	40	10	40	\$12.20	\$19.30	Bachelor's degree	None	Short-term on-the-job training
27-4000	Media and Communication Equipment Workers		2,970	3,660	2.3%	70	40	110					
27-4011	Audio and Video Equipment Technicians	3	620	820	3.2%	20	10	30	\$10.30	\$15.90	Postsecondary non-degree award	None	Short-term on-the-job training
27-4012	Broadcast Technicians	0	220	230	0.6%	0	0	0	\$9.10	\$16.00	Associate's degree	None	Short-term on-the-job training
27-4014	Sound Engineering Technicians	1	140	190	2.9%	0	0	10	\$8.10	\$11.10	Postsecondary non-degree award	None	Short-term on-the-job training
27-4021	Photographers	3	1,300	1,580	2.1%	30	10	40	\$10.00	\$16.90	High school diploma or equivalent	None	Long-term on-the-job training
27-4031	Camera Operators, Television, Video, and Motion Picture	3	260	310	2.2%	10	0	10	\$11.40	\$19.90	Bachelor's degree	None	None
27-4032	Film and Video Editors	3	350	450	3.0%	10	0	10	\$9.70	\$14.80	Bachelor's degree	None	None

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			2012	2022		Growth	Replacements	Total	Inexperienced	Median	Education	Work Experience	Job Training
29-0000	Healthcare Practitioners and Technical Occupations		62,710	83,050	3.2%	2,030	1,290	3,320	\$15.70	\$27.50			
29-1000	Health Diagnosing and Treating Practitioners		37,850	49,870	3.2%	1,200	780	1,990					
29-1011	Chiropractors	3	380	460	2.0%	10	10	20	\$14.00	\$22.70	Doctoral or professional degree	None	None
29-1021	Dentists, General	5	1,580	2,020	2.8%	50	40	90	\$30.50	\$52.60	Doctoral or professional degree	None	None
29-1031	Dietitians and Nutritionists	4	650	840	3.0%	20	10	30	\$12.60	\$21.90	Bachelor's degree	None	Internship/residency
29-1041	Optometrists	3	240	310	2.8%	10	10	10	\$32.20	\$50.00	Doctoral or professional degree	None	None
29-1051	Pharmacists	5	2,330	2,900	2.5%	60	60	110	\$40.70	\$57.00	Doctoral or professional degree	None	None
29-1061	Anesthesiologists	4	460	630	3.8%	20	10	30	\$78.60	\$90.10	Doctoral or professional degree	None	Internship/residency
29-1062	Family and General Practitioners	4	780	980	2.7%	20	20	40	\$64.40	\$90.10	Doctoral or professional degree	None	Internship/residency
29-1064	Obstetricians and Gynecologists	3	250	320	2.6%	10	10	10	\$54.70	\$90.10	Doctoral or professional degree	None	Internship/residency
29-1065	Pediatricians, General	3	170	220	2.9%	10	0	10	\$63.30	\$86.70	Doctoral or professional degree	None	Internship/residency
29-1066	Psychiatrists	4	340	470	3.5%	10	10	20	\$10.90	\$39.90	Doctoral or professional degree	None	Internship/residency
29-1067	Surgeons	4	340	470	3.7%	10	10	20	\$89.10	\$90.20	Doctoral or professional degree	None	Internship/residency
29-1069	Physicians and Surgeons, All Other	5	2,320	3,000	2.9%	70	60	130	\$61.20	\$90.10	Doctoral or professional degree	None	Internship/residency
29-1071	Physician Assistants	5	1,060	1,600	5.0%	50	20	70	\$24.60	\$41.60	Master's degree	None	None
29-1081	Podiatrists	3	130	160	2.8%	0	0	10	\$33.80	\$45.10	Doctoral or professional degree	None	Internship/residency
29-1122	Occupational Therapists	4	610	820	3.4%	20	10	30	\$29.70	\$37.50	Master's degree	None	None
29-1123	Physical Therapists	5	1,610	2,270	4.0%	70	40	100	\$28.00	\$37.20	Doctoral or professional degree	None	None
29-1125	Recreational Therapists	4	280	360	3.1%	10	10	10	\$14.70	\$19.00	Bachelor's degree	None	None
29-1126	Respiratory Therapists	4	740	950	2.8%	20	10	30	\$21.00	\$26.80	Associate's degree	None	None
29-1127	Speech-Language Pathologists	4	950	1,200	2.7%	30	10	40	\$19.20	\$32.50	Master's degree	None	None
29-1131	Veterinarians	4	460	590	2.7%	10	10	30	\$29.50	\$38.70	Doctoral or professional degree	None	None
29-1141	Registered Nurses	5	19,160	25,160	3.1%	600	370	970	\$23.40	\$28.40	Associate's degree	None	None
29-1151	Nurse Anesthetists	4	160	220	3.9%	10	0	10	\$38.30	\$59.70	Master's degree	None	None
29-1171	Nurse Practitioners	5	1,640	2,410	4.7%	80	30	110	\$34.50	\$43.10	Master's degree	None	None
29-1181	Audiologists	4	150	210	4.2%	10	0	10	\$22.80	\$32.70	Doctoral or professional degree	None	None
29-1199	Health Diagnosing and Treating Practitioners, All Other	NR	120	130	1.3%	0	0	0	\$24.20	\$30.40	Master's degree	None	None
29-2000	Health Technologists and Technicians		23,150	31,070	3.4%	790	460	1,250					
29-2011	Medical and Clinical Laboratory Technologists	5	2,010	2,540	2.6%	50	50	110	\$17.50	\$23.90	Bachelor's degree	None	None
29-2012	Medical and Clinical Laboratory Technicians	3	1,570	2,240	4.2%	70	40	110	\$11.40	\$14.60	Associate's degree	None	None
29-2021	Dental Hygienists	5	2,220	3,120	4.1%	90	60	150	\$28.70	\$33.20	Associate's degree	None	None
29-2031	Cardiovascular Technologists and Technicians	5	410	590	4.5%	20	10	20	\$13.90	\$28.30	Associate's degree	None	None
29-2032	Diagnostic Medical Sonographers	5	480	740	5.4%	30	10	30	\$20.60	\$32.60	Associate's degree	None	None
29-2033	Nuclear Medicine Technologists	3	140	190	3.0%	0	0	0	\$25.00	\$32.20	Associate's degree	None	None
29-2034	Radiologic Technologists	5	1,510	2,010	3.2%	50	20	70	\$19.30	\$24.30	Associate's degree	None	None
29-2035	Magnetic Resonance Imaging Technologists	3	150	190	2.9%	0	0	0	\$21.00	\$29.50	Associate's degree	Less than 5 years	None
29-2041	Emergency Medical Technicians and Paramedics	3	2,490	3,300	3.3%	80	70	150	\$10.70	\$15.80	Postsecondary non-degree award	None	None
29-2051	Dietetic Technicians	1	460	580	2.6%	10	0	20	\$9.30	\$11.00	Associate's degree	None	None
29-2052	Pharmacy Technicians	3	3,160	4,110	3.0%	100	30	130	\$12.00	\$15.40	High school diploma or equivalent	None	Moderate-term on-the-job training
29-2053	Psychiatric Technicians	1	810	980	2.2%	20	10	30	\$10.50	\$12.50	Postsecondary non-degree award	None	Short-term on-the-job training
29-2054	Respiratory Therapy Technicians	4	110	160	4.6%	10	0	10	\$15.70	\$18.40	Associate's degree	None	Moderate-term on-the-job training
29-2055	Surgical Technologists	3	1,020	1,450	4.2%	40	10	50	\$14.00	\$17.20	Postsecondary non-degree award	None	None
29-2056	Veterinary Technologists and Technicians	1	750	1,080	4.4%	30	10	40	\$10.40	\$12.20	Associate's degree	None	None
29-2057	Ophthalmic Medical Technicians	3	170	240	3.6%	10	0	10	\$13.60	\$17.10	Postsecondary non-degree award	None	None
29-2061	Licensed Practical and Licensed Vocational Nurses	4	2,310	3,110	3.4%	80	60	140	\$15.00	\$19.40	Postsecondary non-degree award	None	None
29-2071	Medical Records and Health Information Technicians	3	2,070	2,750	3.3%	70	50	120	\$10.90	\$14.30	Postsecondary non-degree award	None	None
29-2081	Opticians, Dispensing	3	810	1,020	2.7%	20	20	50	\$10.50	\$13.40	High school diploma or equivalent	None	Long-term on-the-job training
29-2091	Orthotists and Prosthetists	NR	70	110	6.2%	0	0	0	\$21.10	\$36.40	Master's degree	None	Internship/residency
29-2099	Health Technologists and Technicians, All Other	NR	400	520	3.2%	10	0	20	\$13.30	\$16.60	High school diploma or equivalent	None	None
29-9000	Other Healthcare Practitioners and Technical Occupations		1,720	2,110	2.3%	40	50	90					
29-9011	Occupational Health and Safety Specialists	3	810	940	1.5%	10	20	30	\$21.10	\$29.00	Bachelor's degree	None	Short-term on-the-job training
29-9012	Occupational Health and Safety Technicians	3	130	160	2.5%	0	0	10	\$13.20	\$19.90	High school diploma or equivalent	None	Moderate-term on-the-job training
29-9091	Athletic Trainers	4	190	260	3.9%	10	10	10	\$27.87	\$36.759	Bachelor's degree	None	None
31-0000	Healthcare Support Occupations		32,110	44,510	3.9%	1,240	610	1,850	\$9.60	\$11.90			
31-1000	Nursing, Psychiatric, and Home Health Aides		14,400	20,290	4.1%	590	270	860					
31-1011	Home Health Aides	1	3,710	5,610	5.1%	190	70	260	\$8.10	\$10.20	Less than high school	None	Short-term on-the-job training
31-1014	Nursing Assistants	1	10,090	13,870	3.8%	380	190	570	\$9.60	\$10.90	Postsecondary non-degree award	None	None
31-2000	Occupational Therapy and Physical Therapist Assistants and Aides		1,500	2,150	4.3%	60	30	100					
31-2011	Occupational Therapy Assistants	4	110	140	3.7%	0	0	10	\$22.20	\$27.10	Associate's degree	None	None
31-2021	Physical Therapist Assistants	4	420	600	4.2%	20	10	30	\$13.70	\$21.70	Associate's degree	None	None
31-2022	Physical Therapist Aides	1	950	1,360	4.4%	40	20	60	\$8.10	\$9.80	High school diploma or equivalent	None	Short-term on-the-job training
31-9000	Other Healthcare Support Occupations		16,210	22,070	3.6%	590	300	890					
31-9011	Massage Therapists	3	1,750	2,410	3.8%	70	20	80	\$11.30	\$15.70	Postsecondary non-degree award	None	None
31-9091	Dental Assistants	1	4,700	6,180	3.1%	150	100	240	\$11.00	\$13.10	Postsecondary non-degree award	None	None
31-9092	Medical Assistants	3	6,880	9,610	4.0%	270	130	410	\$11.30	\$13.40	Postsecondary non-degree award	None	None
31-9093	Medical Equipment Preparers	3	110	160	3.7%	0	0	10	\$10.90	\$14.80	High school diploma or equivalent	None	Moderate-term on-the-job training
31-9094	Medical Transcriptionists	3	790	1,010	2.8%	20	20	40	\$9.00	\$13.50	Postsecondary non-degree award	None	None
31-9095	Pharmacy Aides	0	260	300	1.8%	0	10	10	\$10.40	\$11.00	High school diploma or equivalent	None	Short-term on-the-job training
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	1	240	290	2.1%	0	0	10	\$8.10	\$9.10	High school diploma or equivalent	None	Short-term on-the-job training
31-9097	Phlebotomists	1	1,010	1,510	5.0%	50	20	70	\$10.60	\$12.70	Postsecondary non-degree award	None	None
31-9099	Healthcare Support Workers, All Other	NR	470	610	2.8%	10	10	20	\$10.20	\$13.60	High school diploma or equivalent	None	None

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			2012	2022		Growth	Replacements	Total	Inexperienced	Median	Education	Work Experience	Job Training
33-0000	Protective Service Occupations		24,680	29,570	2.0%	490	710	1,200	\$9.80	\$17.00			
33-1000	Supervisors of Protective Service Workers		2,740	3,230	1.8%	50	90	140					
33-1011	First-Line Supervisors of Correctional Officers	2	260	290	1.3%	0	10	10	\$25.70	\$28.90	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-1012	First-Line Supervisors of Police and Detectives	5	1,420	1,670	1.8%	30	40	70	\$25.10	\$31.00	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	3	540	630	1.7%	10	20	30	\$14.20	\$29.40	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training
33-1099	First-Line Supervisors of Protective Service Workers, All Other	NR	530	640	2.1%	10	10	20	\$13.90	\$21.70	High school diploma or equivalent	Less than 5 years	None
33-2000	Fire Fighting and Prevention Workers		3,240	3,810	1.8%	60	90	150					
33-2011	Firefighters	3	3,180	3,740	1.8%	60	90	140	\$8.10	\$13.60	Postsecondary non-degree award	None	Long-term on-the-job training
33-3000	Law Enforcement Workers		8,210	9,630	1.7%	140	240	390					
33-3011	Bailiffs	NR	80	90	1.9%	0	0	0	\$14.60	\$17.70	High school diploma or equivalent	None	Moderate-term on-the-job training
33-3012	Correctional Officers and Jailers	4	2,400	2,720	1.3%	30	60	100	\$16.10	\$18.30	High school diploma or equivalent	None	Moderate-term on-the-job training
33-3021	Detectives and Criminal Investigators	2	330	370	1.3%	0	10	10	\$20.20	\$28.70	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-3041	Parking Enforcement Workers	NR	60	70	2.2%	0	0	0	\$9.70	\$13.80	High school diploma or equivalent	None	Short-term on-the-job training
33-3051	Police and Sheriff's Patrol Officers	4	5,310	6,330	1.9%	100	170	270	\$16.30	\$21.60	High school diploma or equivalent	None	Moderate-term on-the-job training
33-9000	Other Protective Service Workers		10,490	12,910	2.3%	240	290	530					
33-9011	Animal Control Workers	3	200	240	2.1%	0	0	10	\$11.60	\$16.50	High school diploma or equivalent	None	Moderate-term on-the-job training
33-9021	Private Detectives and Investigators	3	140	180	2.5%	0	0	10	\$14.90	\$17.90	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-9032	Security Guards	3	5,670	7,190	2.7%	150	90	240	\$9.50	\$13.20	High school diploma or equivalent	None	Short-term on-the-job training
33-9091	Crossing Guards	1	1,740	1,980	1.4%	20	30	50	\$8.10	\$9.20	High school diploma or equivalent	None	Short-term on-the-job training
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	1	1,510	1,860	2.3%	30	100	140	\$8.10	\$8.80	High school diploma or equivalent	None	Short-term on-the-job training
33-9093	Transportation Security Screeners	0	410	460	1.3%	10	10	10	\$14.60	\$16.90	High school diploma or equivalent	None	Short-term on-the-job training
33-9099	Protective Service Workers, All Other	NR	820	990	2.1%	20	60	80	\$10.60	\$15.10	High school diploma or equivalent	None	Short-term on-the-job training
35-0000	Food Preparation and Serving Related Occupations		93,220	115,440	2.4%	2,220	3,510	5,740	\$8.10	\$9.00			
35-1000	Supervisors of Food Preparation and Serving Workers		7,390	9,340	2.6%	200	200	390					
35-1011	Chefs and Head Cooks	4	1,020	1,220	1.9%	20	20	40	\$12.80	\$19.00	High school diploma or equivalent	5 years or more	None
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	1	6,370	8,120	2.7%	180	180	360	\$9.80	\$12.80	High school diploma or equivalent	Less than 5 years	None
35-2000	Cooks and Food Preparation Workers		21,170	25,650	2.1%	450	470	920					
35-2011	Cooks, Fast Food	1	4,280	4,810	1.2%	50	80	140	\$8.10	\$8.80	Less than high school	None	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	2	4,040	5,020	2.4%	100	80	180	\$8.70	\$11.20	Less than high school	None	Short-term on-the-job training
35-2014	Cooks, Restaurant	1	6,720	8,670	2.9%	200	130	330	\$8.60	\$10.90	Less than high school	Less than 5 years	Moderate-term on-the-job training
35-2015	Cooks, Short Order	1	530	640	2.0%	10	10	20	\$8.50	\$10.50	Less than high school	None	Short-term on-the-job training
35-2021	Food Preparation Workers	1	5,540	6,470	1.7%	90	160	250	\$8.00	\$9.10	Less than high school	None	Short-term on-the-job training
35-3000	Food and Beverage Serving Workers		54,260	67,910	2.5%	1,370	2,300	3,660					
35-3011	Bartenders	1	2,750	3,350	2.2%	60	100	160	\$8.10	\$9.60	Less than high school	None	Short-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	1	30,260	39,290	3.0%	900	1,160	2,060	\$8.10	\$8.60	Less than high school	None	Short-term on-the-job training
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	1	3,090	3,620	1.7%	50	190	240	\$8.10	\$8.80	Less than high school	None	Short-term on-the-job training
35-3031	Waiters and Waitresses	1	16,990	20,130	1.8%	310	820	1,130	\$8.10	\$9.10	Less than high school	None	Short-term on-the-job training
35-3041	Food Servers, Nonrestaurant	1	1,170	1,530	3.1%	40	40	70	\$8.10	\$9.50	Less than high school	None	Short-term on-the-job training
35-9000	Other Food Preparation and Serving Related Workers		10,410	12,550	2.0%	220	550	770					
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	1	3,240	3,960	2.2%	70	140	210	\$8.10	\$8.80	Less than high school	None	Short-term on-the-job training
35-9021	Dishwashers	1	4,130	4,970	2.0%	80	180	270	\$8.10	\$8.70	Less than high school	None	Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	1	3,010	3,580	1.9%	60	230	280	\$8.10	\$8.70	Less than high school	None	None
35-9099	Food Preparation and Serving Related Workers, All Other	NR	40	40	1.7%	0	0	0	\$8.00	\$9.90	Less than high school	None	Short-term on-the-job training
37-0000	Building and Grounds Cleaning and Maintenance Occupations		45,860	56,470	2.3%	1,060	950	2,010	\$8.10	\$9.90			
37-1000	Supervisors of Building and Grounds Cleaning and Maintenance Workers		4,170	5,380	2.9%	120	80	200					
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	4	2,310	2,950	2.8%	60	60	120	\$11.30	\$17.30	High school diploma or equivalent	Less than 5 years	None
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	4	1,860	2,430	3.1%	60	20	80	\$15.00	\$19.30	High school diploma or equivalent	Less than 5 years	None
37-2000	Building Cleaning and Pest Control Workers		29,810	35,970	2.1%	620	570	1,190					
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	1	18,350	22,780	2.4%	440	350	790	\$8.10	\$9.20	Less than high school	None	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	1	10,880	12,410	1.4%	150	220	370	\$8.10	\$9.10	Less than high school	None	Short-term on-the-job training
37-3000	Grounds Maintenance Workers		11,880	15,130	2.7%	320	300	630					
37-3011	Landscaping and Groundskeeping Workers	1	11,330	14,420	2.7%	310	290	590	\$8.20	\$10.90	Less than high school	None	Short-term on-the-job training
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	3	240	310	2.6%	10	10	10	\$11.60	\$15.00	High school diploma or equivalent	None	Moderate-term on-the-job training
37-3013	Tree Trimmers and Pruners	3	230	300	3.4%	10	10	10	\$9.60	\$14.80	High school diploma or equivalent	None	Short-term on-the-job training
37-3019	Grounds Maintenance Workers, All Other	NR	80	100	3.2%	0	0	0	\$9.10	\$12.90	Less than high school	None	Short-term on-the-job training

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39-0000	Personal Care and Service Occupations		36,720	46,740	2.7%	1,010	930	1,930	\$8.10	\$10.00			
39-1000	Supervisors of Personal Care and Service Workers		1,950	2,420	2.4%	50	40	90					
39-1021	First-Line Supervisors of Personal Service Workers	3	1,950	2,420	2.4%	50	40	90	\$11.10	\$14.60	High school diploma or equivalent	Less than 5 years	None
39-2000	Animal Care and Service Workers		2,090	2,740	3.1%	70	40	100					
39-2011	Animal Trainers	1	320	440	3.9%	10	10	30	\$8.10	\$10.00	High school diploma or equivalent	None	Moderate-term on-the-job training
39-2021	Nonfarm Animal Caretakers	1	1,770	2,300	3.0%	50	20	80	\$8.10	\$8.90	Less than high school	None	Short-term on-the-job training
39-3000	Entertainment Attendants and Related Workers		5,570	6,890	2.4%	130	280	420					
39-3021	Motion Picture Projectionists	NR	90	80	-0.8%	0	0	0	\$8.00	\$9.70	Less than high school	None	Short-term on-the-job training
39-3031	Ushers, Lobby Attendants, and Ticket Takers	1	1,880	2,360	2.6%	50	100	150	\$8.10	\$8.70	Less than high school	None	Short-term on-the-job training
39-3091	Amusement and Recreation Attendants	1	3,440	4,240	2.3%	80	170	250	\$8.10	\$8.80	Less than high school	None	Short-term on-the-job training
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	NR	90	120	2.6%	0	10	10	\$8.00	\$9.30	High school diploma or equivalent	None	Short-term on-the-job training
39-4000	Funeral Service Workers		360	410	1.3%	0	10	10					
39-4021	Funeral Attendants	0	190	210	1.2%	0	0	0	\$9.20	\$13.10	High school diploma or equivalent	None	Short-term on-the-job training
39-5000	Personal Appearance Workers		5,400	7,080	3.1%	170	110	270					
39-5012	Hairdressers, Hairstylists, and Cosmetologists	1	4,190	5,360	2.8%	120	100	220	\$8.60	\$12.10	Postsecondary non-degree award	None	None
39-5092	Manicurists and Pedicurists	1	690	910	3.2%	20	10	30	\$8.20	\$10.10	Postsecondary non-degree award	None	None
39-5094	Skincare Specialists	3	470	740	5.7%	30	0	30	\$9.40	\$13.40	Postsecondary non-degree award	None	None
39-6000	Baggage Porters, Bellhops, and Concierges		360	440	2.3%	10	10	20					
39-6011	Baggage Porters and Bellhops	0	230	270	1.9%	0	10	10	\$8.00	\$8.80	High school diploma or equivalent	None	Short-term on-the-job training
39-6012	Concierges	1	140	180	3.1%	0	0	10	\$9.80	\$12.10	High school diploma or equivalent	None	Moderate-term on-the-job training
39-7000	Tour and Travel Guides		700	890	2.8%	20	30	50					
39-9000	Other Personal Care and Service Workers		20,290	25,860	2.7%	560	410	970					
39-9011	Childcare Workers	1	7,890	9,260	1.7%	140	230	370	\$8.10	\$9.20	High school diploma or equivalent	None	Short-term on-the-job training
39-9021	Personal Care Aides	1	4,660	6,610	4.2%	200	30	230	\$8.00	\$9.60	Less than high school	None	Short-term on-the-job training
39-9031	Fitness Trainers and Aerobics Instructors	1	2,990	3,750	2.6%	80	40	110	\$10.40	\$17.00	High school diploma or equivalent	None	Short-term on-the-job training
39-9032	Recreation Workers	1	2,920	3,810	3.0%	90	30	120	\$8.10	\$10.00	Bachelor's degree	None	None
39-9041	Residential Advisors	1	1,710	2,310	3.5%	60	70	130	\$9.50	\$11.60	High school diploma or equivalent	None	Short-term on-the-job training
39-9099	Personal Care and Service Workers, All Other	NR	120	130	0.5%	0	0	0	\$8.20	\$9.10	High school diploma or equivalent	None	Short-term on-the-job training
41-0000	Sales and Related Occupations		143,940	172,080	2.0%	2,820	4,240	7,060	\$8.30	\$12.00			
41-1000	Supervisors of Sales Workers		16,920	19,720	1.7%	280	340	620					
41-1011	First-Line Supervisors of Retail Sales Workers	3	13,680	16,060	1.7%	240	300	540	\$11.60	\$16.70	High school diploma or equivalent	Less than 5 years	None
41-1012	First-Line Supervisors of Non-Retail Sales Workers	5	3,240	3,660	1.3%	40	40	80	\$18.10	\$31.70	High school diploma or equivalent	Less than 5 years	None
41-2000	Retail Sales Workers		77,110	91,100	1.8%	1,400	2,840	4,240					
41-2011	Cashiers	1	27,890	31,700	1.4%	380	1,210	1,590	\$8.10	\$8.90	Less than high school	None	Short-term on-the-job training
41-2021	Counter and Rental Clerks	1	3,490	4,330	2.4%	80	90	170	\$8.20	\$10.90	Less than high school	None	Short-term on-the-job training
41-2022	Pants Salespersons	3	2,410	2,950	2.2%	50	60	120	\$10.70	\$15.70	Less than high school	None	Moderate-term on-the-job training
41-2031	Retail Salespersons	1	43,320	52,130	2.0%	880	1,480	2,360	\$8.10	\$10.20	Less than high school	None	Short-term on-the-job training
41-3000	Sales Representatives, Services		19,090	23,730	2.4%	460	500	960					
41-3011	Advertising Sales Agents	4	1,120	1,310	1.8%	20	30	50	\$13.50	\$22.90	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3021	Insurance Sales Agents	4	3,250	4,120	2.7%	90	80	170	\$12.70	\$20.10	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3031	Securities, Commodities, and Financial Services Sales Agents	4	2,460	2,570	0.4%	10	60	70	\$15.60	\$28.40	Bachelor's degree	None	Moderate-term on-the-job training
41-3041	Travel Agents	0	650	660	0.2%	0	10	10	\$11.00	\$17.00	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3099	Sales Representatives, Services, All Other	NR	11,610	15,060	3.0%	350	320	660	\$11.70	\$18.60	High school diploma or equivalent	None	Short-term on-the-job training
41-4000	Sales Representatives, Wholesale and Manufacturing		19,670	23,240	1.8%	360	380	740					
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	5	4,960	6,150	2.4%	120	100	220	\$21.20	\$37.00	Bachelor's degree	None	Moderate-term on-the-job training
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	5	14,700	17,100	1.6%	240	290	520	\$15.40	\$26.00	High school diploma or equivalent	None	Moderate-term on-the-job training
41-9000	Other Sales and Related Workers		11,150	14,290	2.8%	310	180	500					
41-9011	Demonstrators and Product Promoters	1	910	1,210	3.3%	30	30	50	\$10.30	\$11.40	High school diploma or equivalent	None	Short-term on-the-job training
41-9021	Real Estate Brokers	4	370	500	3.6%	10	0	20	\$9.10	\$17.60	High school diploma or equivalent	Less than 5 years	None
41-9022	Real Estate Sales Agents	3	3,940	5,200	3.2%	130	40	160	\$9.90	\$17.10	High school diploma or equivalent	None	Long-term on-the-job training
41-9031	Sales Engineers	3	410	510	2.4%	10	10	20	\$25.20	\$45.30	Bachelor's degree	None	Moderate-term on-the-job training
41-9041	Telemarketers	1	4,560	5,670	2.4%	110	100	210	\$8.40	\$10.70	Less than high school	None	Short-term on-the-job training
41-9099	Sales and Related Workers, All Other	NR	850	1,080	2.8%	20	20	40	\$9.40	\$12.90	High school diploma or equivalent	None	None

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SOC Code	Occupation Title	Star Rating	Employment Estimates		Annual Growth Rate	Annual Openings			Hourly Wages		Preparation		
			2012	2022		Growth	Replacements	Total	Inexperienced	Median	Education	Work Experience	Job Training
43-0000	Office and Administrative Support Occupations		225,310	275,080	2.2%	5,110	4,970	10,080	\$9.90	\$14.10			
43-1000	Supervisors of Office and Administrative Support Workers		14,990	18,610	2.4%	360	360	720					
43-1011	First-Line Supervisors of Office and Administrative Support Workers	4	14,990	18,610	2.4%	360	360	720	\$14.90	\$21.70	High school diploma or equivalent	Less than 5 years	None
43-2000	Communications Equipment Operators		920	1,050	1.3%	20	20	30					
43-2011	Switchboard Operators, Including Answering Service	0	470	430	-0.7%	0	10	10	\$9.80	\$12.30	High school diploma or equivalent	None	Short-term on-the-job training
43-3000	Financial Clerks		29,710	37,250	2.5%	750	610	1,360					
43-3011	Bill and Account Collectors	3	3,340	4,160	2.4%	80	90	170	\$11.60	\$15.40	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3021	Billing and Posting Clerks	3	3,540	4,800	3.6%	130	70	190	\$12.00	\$14.60	High school diploma or equivalent	None	Short-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	3	14,740	18,630	2.6%	390	140	520	\$11.70	\$16.10	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	4	1,410	1,790	2.7%	40	30	70	\$14.10	\$17.70	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3061	Procurement Clerks	3	760	860	1.3%	10	30	40	\$12.50	\$18.00	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3071	Tellers	1	5,000	5,910	1.8%	90	230	330	\$9.50	\$10.90	High school diploma or equivalent	None	Short-term on-the-job training
43-3099	Financial Clerks, All Other	NR	930	1,110	2.0%	20	30	40	\$12.10	\$19.40	High school diploma or equivalent	None	Short-term on-the-job training
43-4000	Information and Record Clerks		72,880	91,590	2.6%	1,890	1,860	3,750					
43-4011	Brokerage Clerks	4	410	520	2.6%	10	10	20	\$15.40	\$20.20	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4021	Correspondence Clerks	NR	70	70	2.1%	0	0	0	\$14.20	\$17.10	High school diploma or equivalent	None	Short-term on-the-job training
43-4031	Court, Municipal, and License Clerks	3	1,010	1,220	2.1%	20	20	40	\$12.00	\$14.00	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4041	Credit Authorizers, Checkers, and Clerks	0	480	530	1.0%	10	0	10	\$12.50	\$15.20	High school diploma or equivalent	None	Short-term on-the-job training
43-4051	Customer Service Representatives	3	38,930	51,740	3.3%	1,280	1,060	2,340	\$9.90	\$13.40	High school diploma or equivalent	None	Short-term on-the-job training
43-4061	Eligibility Interviewers, Government Programs	4	2,010	2,410	2.0%	40	40	80	\$15.40	\$17.80	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4071	File Clerks	0	1,070	1,100	0.4%	0	20	30	\$9.50	\$12.90	High school diploma or equivalent	None	Short-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	1	2,670	3,290	2.3%	60	130	190	\$8.10	\$9.80	High school diploma or equivalent	None	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	1	2,840	3,540	2.4%	70	50	120	\$8.30	\$11.60	High school diploma or equivalent	None	Short-term on-the-job training
43-4121	Library Assistants, Clerical	1	790	1,030	3.1%	30	40	60	\$8.30	\$11.60	High school diploma or equivalent	None	Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	3	2,540	3,120	2.3%	60	20	80	\$11.90	\$15.90	High school diploma or equivalent	None	Short-term on-the-job training
43-4141	New Accounts Clerks	0	490	540	0.9%	0	10	20	\$12.20	\$15.60	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4151	Order Clerks	1	1,680	1,880	1.2%	20	40	60	\$9.10	\$12.70	High school diploma or equivalent	None	Short-term on-the-job training
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	3	1,020	1,100	0.7%	10	30	30	\$11.20	\$16.50	High school diploma or equivalent	None	Short-term on-the-job training
43-4171	Receptionists and Information Clerks	1	11,440	14,210	2.4%	280	310	580	\$9.10	\$11.60	High school diploma or equivalent	None	Short-term on-the-job training
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	3	4,060	4,100	0.1%	0	50	60	\$10.50	\$15.00	High school diploma or equivalent	None	Short-term on-the-job training
43-4199	Information and Record Clerks, All Other	NR	1,380	1,200	-1.3%	0	30	30	\$13.90	\$17.10	High school diploma or equivalent	None	Short-term on-the-job training
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers		32,630	36,830	1.3%	440	910	1,340					
43-5011	Cargo and Freight Agents	3	250	350	4.0%	10	10	20	\$11.80	\$14.70	High school diploma or equivalent	None	Short-term on-the-job training
43-5021	Couriers and Messengers	0	590	640	0.9%	10	10	10	\$9.60	\$12.00	High school diploma or equivalent	None	Short-term on-the-job training
43-5031	Police, Fire, and Ambulance Dispatchers	3	730	860	1.8%	10	20	30	\$13.80	\$17.10	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	4	1,750	2,220	2.7%	50	50	100	\$12.20	\$18.60	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5041	Meter Readers, Utilities	2	250	220	-1.2%	0	10	10	\$12.20	\$22.60	High school diploma or equivalent	None	Short-term on-the-job training
43-5051	Postal Service Clerks	2	550	530	-0.4%	0	10	10	\$17.00	\$25.90	High school diploma or equivalent	None	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	4	2,100	2,160	0.3%	10	70	90	\$19.50	\$27.20	High school diploma or equivalent	None	Short-term on-the-job training
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	2	720	750	0.5%	10	0	10	\$15.80	\$25.50	High school diploma or equivalent	None	Short-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	4	3,230	3,620	1.2%	40	80	120	\$14.60	\$20.00	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5071	Shipping, Receiving, and Traffic Clerks	3	6,510	7,840	2.0%	130	170	300	\$9.70	\$13.30	High school diploma or equivalent	None	Short-term on-the-job training
43-5081	Stock Clerks and Order Fillers	1	15,330	16,850	1.0%	150	460	620	\$8.20	\$10.60	Less than high school	None	Short-term on-the-job training
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	3	620	770	2.5%	20	10	30	\$10.70	\$14.00	High school diploma or equivalent	None	Short-term on-the-job training
43-6000	Secretaries and Administrative Assistants		36,920	47,220	2.8%	1,030	440	1,480					
43-6011	Executive Secretaries and Executive Administrative Assistants	4	6,760	7,590	1.2%	80	80	160	\$16.20	\$21.30	High school diploma or equivalent	Less than 5 years	None
43-6012	Legal Secretaries	4	1,690	1,940	1.5%	20	20	40	\$13.10	\$17.40	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6013	Medical Secretaries	3	5,720	8,320	4.5%	260	70	330	\$11.90	\$14.00	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	3	22,760	29,380	2.9%	660	270	940	\$11.10	\$15.20	High school diploma or equivalent	None	Short-term on-the-job training
43-9000	Other Office and Administrative Support Workers		37,260	42,540	1.4%	620	760	1,380					
43-9011	Computer Operators	0	550	500	-1.0%	0	10	10	\$11.40	\$16.60	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9021	Data Entry Keyers	0	3,280	2,560	-2.2%	0	40	40	\$10.30	\$14.00	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9022	Word Processors and Typists	0	640	620	-0.3%	0	0	0	\$10.60	\$13.80	High school diploma or equivalent	None	Short-term on-the-job training
43-9031	Desktop Publishers	NR	90	90	0.2%	0	0	0	\$10.00	\$15.40	Associate's degree	None	Short-term on-the-job training
43-9041	Insurance Claims and Policy Processing Clerks	3	1,690	2,070	2.3%	40	40	80	\$12.50	\$14.80	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	0	1,460	1,440	-0.2%	10	30	40	\$8.60	\$11.90	High school diploma or equivalent	None	Short-term on-the-job training
43-9061	Office Clerks, General	1	26,700	31,850	1.9%	520	560	1,080	\$9.10	\$12.00	High school diploma or equivalent	None	Short-term on-the-job training
43-9071	Office Machine Operators, Except Computer	0	470	470	0.0%	0	10	10	\$9.60	\$11.20	High school diploma or equivalent	None	Short-term on-the-job training
43-9081	Proofreaders and Copy Markers	0	240	250	0.6%	0	10	10	\$9.20	\$14.20	Bachelor's degree	None	None
43-9111	Statistical Assistants	NR	210	250	2.3%	10	10	10	\$16.10	\$20.70	Bachelor's degree	None	None
43-9199	Office and Administrative Support Workers, All Other	NR	1,930	2,430	2.6%	50	50	100	\$11.40	\$16.40	High school diploma or equivalent	None	Short-term on-the-job training
45-0000	Farming, Fishing, and Forestry Occupations		7,860	7,960	0.1%	30	230	260	\$8.60	\$11.30			
45-1000	Supervisors of Farming, Fishing, and Forestry Workers		370	400	0.8%	0	10	10					
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	2	370	400	0.8%	0	10	10	\$15.40	\$20.30	High school diploma or equivalent	Less than 5 years	None
45-2000	Agricultural Workers		7,200	7,240	0.1%	30	220	240					
45-2041	Graders and Sorters, Agricultural Products	0	150	140	-0.3%	0	0	0	\$10.40	\$11.40	Less than high school	None	Short-term on-the-job training
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	1	5,610	5,550	-0.1%	10	170	190	\$8.20	\$10.40	Less than high school	None	Short-term on-the-job training
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	0	720	770	0.7%	0	20	30	\$8.10	\$13.90	Less than high school	None	Short-term on-the-job training
45-2099	Agricultural Workers, All Other	NR	80	80	-0.2%	0	0	0			Less than high school	None	Short-term on-the-job training
45-3000	Fishing and Hunting Workers		230	240	0.7%	0	0	10					
45-3011	Fishers and Related Fishing Workers	0	230	240	0.7%	0	0	10			Less than high school	None	Moderate-term on-the-job training
45-4000	Forest, Conservation, and Logging Workers		70	80	1.8%	0	0	0					

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			2012	2022		Growth	Replacements	Total	Inexperienced	Median	Education	Work Experience	Job Training
47-0000	Construction and Extraction Occupations		78,930	105,090	3.3%	2,630	1,370	4,000	\$12.60	\$18.30			
47-1000	Supervisors of Construction and Extraction Workers		7,340	9,780	3.3%	250	80	320					
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	5	7,340	9,780	3.3%	250	80	320	\$18.80	\$26.80	High school diploma or equivalent	5 years or more	None
47-2000	Construction Trades Workers		59,950	80,190	3.4%	2,030	1,030	3,050					
47-2021	Brickmasons and Blockmasons	4	1,010	1,730	7.1%	70	10	80	\$15.40	\$20.50	High school diploma or equivalent	None	Apprenticeship
47-2022	Stonemasons	NR	50	70	3.7%	0	0	0	\$13.10	\$17.90	High school diploma or equivalent	None	Apprenticeship
47-2031	Carpenters	3	11,070	15,360	3.9%	430	140	570	\$11.50	\$16.70	High school diploma or equivalent	None	Apprenticeship
47-2041	Carpet Installers	1	170	220	2.9%	0	0	10	\$8.00	\$13.10	Less than high school	None	Short-term on-the-job training
47-2043	Floor Sanders and Finishers	NR	50	70	3.8%	0	0	0	\$8.10	\$9.20	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2044	Tile and Marble Setters	4	980	1,340	3.7%	40	20	50	\$13.10	\$18.40	Less than high school	None	Long-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	3	2,770	3,990	4.4%	120	30	150	\$11.60	\$15.70	Less than high school	None	Moderate-term on-the-job training
47-2061	Construction Laborers	3	13,470	17,950	3.3%	450	290	740	\$10.20	\$13.60	Less than high school	None	Short-term on-the-job training
47-2071	Paving, Surfacing, and Tamping Equipment Operators	3	240	290	2.0%	0	0	10	\$14.50	\$18.80	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	4	6,210	7,540	2.1%	130	140	270	\$16.50	\$21.70	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2081	Drywall and Ceiling Tile Installers	3	2,020	2,870	4.2%	80	20	100	\$14.00	\$16.90	Less than high school	None	Moderate-term on-the-job training
47-2082	Tapers	3	320	450	3.9%	10	0	20	\$12.80	\$16.30	Less than high school	None	Moderate-term on-the-job training
47-2111	Electricians	4	6,050	7,790	2.9%	180	110	290	\$15.90	\$22.30	High school diploma or equivalent	None	Apprenticeship
47-2121	Glaziers	3	480	590	2.5%	10	10	20	\$14.40	\$19.10	High school diploma or equivalent	None	Apprenticeship
47-2131	Insulation Workers, Floor, Ceiling, and Wall	4	310	460	5.1%	10	0	20	\$15.20	\$19.20	Less than high school	None	Short-term on-the-job training
47-2132	Insulation Workers, Mechanical	4	300	460	5.3%	20	0	20	\$16.20	\$19.70	High school diploma or equivalent	None	Apprenticeship
47-2141	Painters, Construction and Maintenance	3	3,560	5,010	4.1%	140	50	200	\$11.50	\$16.60	Less than high school	None	Moderate-term on-the-job training
47-2151	Pipelayers	3	540	690	2.9%	20	10	20	\$12.40	\$16.10	Less than high school	None	Short-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	5	4,400	5,640	2.8%	130	60	180	\$16.10	\$24.40	High school diploma or equivalent	None	Apprenticeship
47-2161	Plasterers and Stucco Masons	3	650	950	4.8%	30	0	30	\$12.40	\$14.80	Less than high school	None	Long-term on-the-job training
47-2171	Reinforcing Iron and Rebar Workers	3	160	210	3.0%	0	0	10	\$14.80	\$17.70	High school diploma or equivalent	None	Apprenticeship
47-2181	Roofers	3	1,500	1,910	2.7%	40	30	70	\$11.80	\$15.70	Less than high school	None	Moderate-term on-the-job training
47-2211	Sheet Metal Workers	4	1,880	2,210	1.7%	30	40	70	\$14.60	\$22.00	High school diploma or equivalent	None	Apprenticeship
47-2221	Structural Iron and Steel Workers	4	1,220	1,690	3.8%	50	40	90	\$15.60	\$20.10	High school diploma or equivalent	None	Apprenticeship
47-3000	Helpers, Construction Trades		2,740	4,320	5.8%	160	40	200					
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	3	560	990	7.7%	40	10	50	\$11.30	\$15.20	Less than high school	None	Short-term on-the-job training
47-3012	Helpers--Carpenters	1	410	560	3.5%	20	10	20	\$9.00	\$12.00	Less than high school	None	Short-term on-the-job training
47-3013	Helpers--Electricians	1	660	1,190	8.1%	50	10	60	\$9.70	\$12.40	High school diploma or equivalent	None	Short-term on-the-job training
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	1	290	400	3.6%	10	0	20	\$8.60	\$11.60	Less than high school	None	Short-term on-the-job training
47-3015	Helpers--Pipefitters, Plumbers, Pipefitters, and Steamfitters	1	380	550	4.6%	20	10	20	\$9.80	\$12.50	High school diploma or equivalent	None	Short-term on-the-job training
47-3016	Helpers--Roofers	1	270	380	4.3%	10	0	20	\$9.80	\$12.60	Less than high school	None	Short-term on-the-job training
47-3019	Helpers, Construction Trades, All Other	1	180	260	4.5%	10	0	10	\$10.30	\$13.10	Less than high school	None	Short-term on-the-job training
47-4000	Other Construction and Related Workers		3,250	3,890	2.0%	70	60	130					
47-4011	Construction and Building Inspectors	4	820	1,020	2.4%	20	20	40	\$18.90	\$26.20	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training
47-4021	Elevator Installers and Repairers	2	320	360	1.3%	0	10	10	\$26.30	\$36.00	High school diploma or equivalent	None	Apprenticeship
47-4031	Fence Erectors	3	220	290	3.4%	10	10	10	\$11.30	\$17.00	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4041	Hazardous Materials Removal Workers	2	250	290	1.6%	0	10	10	\$12.10	\$18.90	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4051	Highway Maintenance Workers	3	1,120	1,270	1.4%	20	20	30	\$14.10	\$17.70	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4061	Rail-Track Laying and Maintenance Equipment Operators	2	130	150	1.6%	0	0	10	\$18.60	\$24.50	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	3	340	450	3.0%	10	10	20	\$10.30	\$15.40	Less than high school	None	Moderate-term on-the-job training
47-4099	Construction and Related Workers, All Other	NR	60	70	2.5%	0	0	0	\$10.30	\$15.10	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5000	Extraction Workers		5,660	6,910	2.2%	130	160	290					
47-5011	Derrick Operators, Oil and Gas	4	240	310	3.0%	10	10	20	\$19.10	\$23.70	Less than high school	None	Short-term on-the-job training
47-5012	Rotary Drill Operators, Oil and Gas	4	260	340	2.9%	10	10	20	\$19.80	\$27.30	Less than high school	None	Moderate-term on-the-job training
47-5013	Service Unit Operators, Oil, Gas, and Mining	5	1,000	1,340	3.3%	30	40	70	\$16.90	\$24.10	Less than high school	None	Moderate-term on-the-job training
47-5021	Earth Drillers, Except Oil and Gas	4	380	480	2.7%	10	10	20	\$18.90	\$23.20	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5031	Explosives Workers, Ordnance Handling Experts, and Blasters	NR	70	70	0.6%	0	0	0	\$20.60	\$23.70	High school diploma or equivalent	Less than 5 years	Long-term on-the-job training
47-5041	Continuous Mining Machine Operators	2	870	860	-0.2%	0	20	20	\$24.00	\$26.90	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5042	Mine Cutting and Channeling Machine Operators	2	420	480	1.4%	10	10	10	\$23.20	\$26.40	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5061	Roof Bolters, Mining	NR	80	70	-1.9%	0	0	0	\$25.20	\$26.20	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5071	Roustabouts, Oil and Gas	3	1,900	2,450	2.9%	50	50	100	\$12.00	\$17.20	Less than high school	None	Moderate-term on-the-job training
47-5081	Helpers--Extraction Workers	3	370	450	2.0%	10	10	20	\$15.50	\$17.30	High school diploma or equivalent	None	Moderate-term on-the-job training

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			2012	2022		Growth	Replacements	Total	Inexperienced	Median	Education	Work Experience	Job Training
49-0000	Installation, Maintenance, and Repair Occupations		52,870	64,260	2.2%	1,160	1,250	2,410	\$12.70	\$20.60			
49-1000	Supervisors of Installation, Maintenance, and Repair Workers		4,540	5,380	1.8%	90	120	210					
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	5	4,540	5,380	1.8%	90	120	210	\$20.90	\$31.40	High school diploma or equivalent	Less than 5 years	None
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers		5,920	6,560	1.1%	70	110	180					
49-2011	Computer, Automated Teller, and Office Machine Repairers	3	930	1,070	1.5%	10	20	30	\$11.50	\$16.60	Some college, no degree	None	None
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	4	2,140	2,410	1.3%	30	30	60	\$18.70	\$29.80	Postsecondary non-degree award	None	Moderate-term on-the-job training
49-2091	Avionics Technicians	2	230	220	-0.5%	0	10	10	\$24.50	\$26.90	Associate's degree	None	None
49-2092	Electric Motor, Power Tool, and Related Repairers	0	270	300	1.2%	0	0	10	\$8.00	\$9.30	Postsecondary non-degree award	None	Long-term on-the-job training
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	2	950	950	0.1%	10	20	30	\$21.50	\$26.90	Postsecondary non-degree award	None	Long-term on-the-job training
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	2	380	380	0.1%	0	10	10	\$31.60	\$38.60	Postsecondary non-degree award	None	Long-term on-the-job training
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	2	220	240	1.1%	0	0	10	\$13.60	\$18.00	Postsecondary non-degree award	None	Short-term on-the-job training
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	0	170	180	0.8%	0	10	10	\$10.20	\$16.30	Postsecondary non-degree award	None	None
49-2098	Security and Fire Alarm Systems Installers	4	520	670	2.9%	20	10	30	\$15.10	\$19.50	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3000	Vehicle and Mobile Equipment Mechanics, Installers, and Repairers	#N/A	18,000	21,730	2.1%	380	460	840					
49-3011	Aircraft Mechanics and Service Technicians	3	1,600	1,660	0.3%	10	40	50	\$20.60	\$26.90	Postsecondary non-degree award	None	None
49-3021	Automotive Body and Related Repairers	4	1,520	1,910	2.6%	40	30	70	\$12.30	\$17.50	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3022	Automotive Glass Installers and Repairers	3	190	240	2.8%	0	0	10	\$11.80	\$17.90	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	4	6,890	8,500	2.3%	160	170	330	\$10.90	\$17.20	High school diploma or equivalent	None	Long-term on-the-job training
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	4	3,360	4,050	2.1%	70	70	140	\$14.60	\$20.40	High school diploma or equivalent	None	Long-term on-the-job training
49-3041	Farm Equipment Mechanics and Service Technicians	3	230	290	2.2%	0	0	10	\$15.20	\$18.50	High school diploma or equivalent	None	Long-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	5	2,130	2,550	1.9%	40	60	100	\$19.30	\$25.50	High school diploma or equivalent	None	Long-term on-the-job training
49-3043	Rail Car Repairers	NR	80	90	1.3%	0	0	0	\$19.40	\$29.10	High school diploma or equivalent	None	Long-term on-the-job training
49-3051	Motorboat Mechanics and Service Technicians	0	150	170	1.8%	0	0	10	\$10.40	\$15.70	High school diploma or equivalent	None	Long-term on-the-job training
49-3052	Motorcycle Mechanics	3	150	180	2.1%	0	0	0	\$10.40	\$14.30	High school diploma or equivalent	None	Long-term on-the-job training
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	0	170	210	2.0%	0	0	10	\$11.20	\$14.30	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3091	Bicycle Repairers	NR	90	120	3.4%	0	0	10	\$10.10	\$11.20	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3092	Recreational Vehicle Service Technicians	3	110	140	2.7%	0	0	10	\$13.60	\$18.90	High school diploma or equivalent	None	Long-term on-the-job training
49-3093	Tire Repairers and Changers	1	1,320	1,620	2.2%	30	50	80	\$9.30	\$11.10	High school diploma or equivalent	None	Short-term on-the-job training
49-9000	Other Installation, Maintenance, and Repair Occupations		24,410	30,590	2.5%	620	570	1,190					
49-9011	Mechanical Door Repairers	3	430	570	3.3%	10	10	30	\$12.80	\$18.00	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	2	310	290	-0.6%	0	10	10	\$22.80	\$26.90	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	4	2,390	3,130	3.1%	80	60	140	\$14.90	\$20.30	Postsecondary non-degree award	None	Long-term on-the-job training
49-9031	Home Appliance Repairers	3	430	500	1.5%	10	10	20	\$10.70	\$16.80	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9041	Industrial Machinery Mechanics	5	3,780	5,130	3.6%	140	110	250	\$18.00	\$24.60	High school diploma or equivalent	None	Long-term on-the-job training
49-9043	Maintenance Workers, Machinery	4	1,030	1,310	2.7%	30	10	40	\$15.10	\$20.80	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9051	Electrical Power-Line Installers and Repairers	4	940	1,110	1.7%	20	30	50	\$16.70	\$30.40	High school diploma or equivalent	None	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	4	1,030	1,330	3.0%	30	30	60	\$13.30	\$17.90	High school diploma or equivalent	None	Long-term on-the-job training
49-9062	Medical Equipment Repairers	5	720	1,070	4.8%	40	20	60	\$13.50	\$24.60	Associate's degree	None	Moderate-term on-the-job training
49-9069	Precision Instrument and Equipment Repairers, All Other	2	130	140	1.2%	0	0	10	\$17.10	\$25.30	High school diploma or equivalent	None	Long-term on-the-job training
49-9071	Maintenance and Repair Workers, General	3	10,050	12,220	2.2%	220	190	410	\$10.60	\$16.20	High school diploma or equivalent	None	Long-term on-the-job training
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	2	270	300	1.2%	0	10	10	\$12.90	\$18.60	High school diploma or equivalent	None	Short-term on-the-job training
49-9094	Locksmiths and Safe Repairers	3	270	350	2.8%	10	10	20	\$11.60	\$18.40	High school diploma or equivalent	None	Long-term on-the-job training
49-9096	Riggers	4	220	290	3.5%	10	10	10	\$14.70	\$20.80	High school diploma or equivalent	None	Short-term on-the-job training
49-9098	Helpers--Installation, Maintenance, and Repair Workers	1	1,070	1,320	2.3%	20	30	60	\$8.90	\$12.10	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9099	Installation, Maintenance, and Repair Workers, All Other	NR	780	930	1.9%	10	10	30	\$13.20	\$21.70	High school diploma or equivalent	None	Moderate-term on-the-job training

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51-0000	Production Occupations		86,070	101,510	1.8%	1,580	1,750	3,330	\$10.20	\$15.00			
51-1000	Supervisors of Production Workers		6,650	7,700	1.6%	110	90	200					
51-1011	First-Line Supervisors of Production and Operating Workers	5	6,650	7,700	1.6%	110	90	200	\$17.00	\$25.20	Postsecondary non-degree award	Less than 5 years	None
51-2000	Assemblers and Fabricators		17,550	21,290	2.1%	380	300	670					
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	4	340	670	9.5%	30	10	40	\$13.50	\$18.40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2022	Electrical and Electronic Equipment Assemblers	3	2,210	2,410	0.9%	20	30	50	\$10.80	\$14.40	High school diploma or equivalent	None	Short-term on-the-job training
51-2023	Electromechanical Equipment Assemblers	2	310	320	0.3%	0	0	10	\$14.70	\$18.40	High school diploma or equivalent	None	Short-term on-the-job training
51-2031	Engine and Other Machine Assemblers	3	190	240	2.6%	10	0	10	\$11.60	\$15.10	High school diploma or equivalent	None	Short-term on-the-job training
51-2041	Structural Metal Fabricators and Fitters	3	1,320	1,650	2.6%	30	50	90	\$13.10	\$17.20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2091	Fiberglass Laminators and Fabricators	3	260	340	3.3%	10	0	10	\$10.50	\$14.90	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2092	Team Assemblers	3	11,320	13,560	2.0%	220	180	400	\$9.80	\$13.20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2099	Assemblers and Fabricators, All Other	NR	1,560	2,060	3.2%	50	20	70	\$8.40	\$11.10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3000	Food Processing Workers		8,450	9,710	1.5%	130	230	350					
51-3011	Bakers	1	2,320	2,730	1.8%	40	60	100	\$8.80	\$11.20	Less than high school	None	Long-term on-the-job training
51-3021	Butchers and Meat Cutters	1	1,000	1,150	1.5%	20	30	40	\$8.60	\$12.10	Less than high school	None	Long-term on-the-job training
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	1	1,060	1,250	1.8%	20	30	40	\$10.50	\$12.70	Less than high school	None	Short-term on-the-job training
51-3023	Slaughterers and Meat Packers	1	1,150	1,260	0.9%	10	30	40	\$10.10	\$12.70	Less than high school	None	Short-term on-the-job training
51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	0	240	270	1.4%	0	10	10	\$10.10	\$13.00	Less than high school	None	Moderate-term on-the-job training
51-3092	Food Batchmakers	3	2,170	2,430	1.2%	30	70	100	\$8.50	\$14.00	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3093	Food Cooking Machine Operators and Tenders	0	290	340	1.5%	0	10	10	\$10.90	\$14.00	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3099	Food Processing Workers, All Other	NR	230	280	2.5%	10	10	10	\$8.10	\$10.60	Less than high school	None	Moderate-term on-the-job training
51-4000	Metal Workers and Plastic Workers		17,430	20,530	1.8%	320	340	660					
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	3	690	920	3.3%	20	20	40	\$13.10	\$17.20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	NR	80	110	3.9%	0	0	10	\$18.30	\$25.40	High school diploma or equivalent	None	Long-term on-the-job training
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	3	560	650	1.6%	10	10	20	\$12.80	\$14.40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	NR	90	100	0.9%	0	0	0	\$11.80	\$14.70	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	0	1,290	1,390	0.8%	10	10	20	\$11.20	\$14.20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	0	470	480	0.2%	0	10	10	\$10.20	\$13.10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	NR	60	60	0.2%	0	0	0	\$12.10	\$14.80	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	0	170	170	-0.1%	0	0	0	\$9.70	\$13.60	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4041	Machinists	4	3,680	4,590	2.5%	90	80	170	\$15.60	\$21.80	High school diploma or equivalent	None	Long-term on-the-job training
51-4051	Metal-Refining Furnace Operators and Tenders	4	1,120	1,440	2.9%	30	10	50	\$17.70	\$20.60	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4061	Model Makers, Metal and Plastic	NR	40	40	2.3%	0	0	0	\$11.10	\$17.60	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	0	1,580	1,680	0.6%	10	20	30	\$9.20	\$12.90	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	0	1,260	1,310	0.5%	10	20	30	\$12.40	\$16.40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4111	Tool and Die Makers	2	300	350	1.5%	0	0	10	\$17.40	\$25.60	High school diploma or equivalent	None	Long-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	4	4,480	5,500	2.3%	100	110	210	\$12.90	\$17.20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	4	200	280	4.2%	10	0	10	\$11.60	\$17.50	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	3	160	200	2.6%	10	0	10	\$12.00	\$14.00	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	0	330	330	-0.1%	0	10	10	\$9.90	\$13.80	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5100	Printing Workers		3,270	3,240	-0.1%	10	60	70					
51-5111	Prepress Technicians and Workers	0	360	350	-0.3%	0	10	10	\$11.00	\$17.20	Postsecondary non-degree award	None	None
51-5112	Printing Press Operators	0	1,860	1,900	0.2%	10	30	40	\$10.10	\$14.30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5113	Print Binding and Finishing Workers	0	1,060	990	-0.6%	0	20	20	\$9.30	\$12.20	High school diploma or equivalent	None	Short-term on-the-job training
51-6000	Textile, Apparel, and Furnishings Workers		4,890	5,700	1.6%	80	90	170					
51-6011	Laundry and Dry-Cleaning Workers	1	1,970	2,390	2.1%	40	60	100	\$8.10	\$9.60	Less than high school	None	Short-term on-the-job training
51-6021	Pressers, Textile, Garment, and Related Materials	0	280	320	1.3%	0	10	10	\$8.10	\$9.00	Less than high school	None	Short-term on-the-job training
51-6031	Sewing Machine Operators	0	1,340	1,470	1.0%	10	10	20	\$8.50	\$11.10	Less than high school	None	Short-term on-the-job training
51-6041	Shoe and Leather Workers and Repairers	NR	70	80	1.0%	0	0	0	\$10.80	\$15.90	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6052	Tailors, Dressmakers, and Custom Sewers	1	520	620	2.0%	10	10	20	\$10.20	\$11.20	Less than high school	None	Moderate-term on-the-job training
51-6061	Textile Bleaching and Dyeing Machine Operators and Tenders	NR	70	70	-0.2%	0	0	0	\$10.00	\$11.40	High school diploma or equivalent	None	Short-term on-the-job training
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	0	250	260	0.7%	0	10	10	\$8.80	\$11.40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6063	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	NR	70	80	0.8%	0	0	0	\$10.30	\$14.40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6093	Upholsterers	3	140	180	2.8%	0	0	10	\$11.60	\$15.70	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6099	Textile, Apparel, and Furnishings Workers, All Other	NR	140	190	2.9%	0	0	0	\$8.00	\$9.00	High school diploma or equivalent	None	Short-term on-the-job training
51-7000	Woodworkers		2,810	3,440	2.2%	60	30	90					
51-7011	Cabinetmakers and Bench Carpenters	3	1,750	2,120	2.1%	40	20	50	\$12.10	\$15.40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7021	Furniture Finishers	0	200	230	1.6%	0	0	10	\$12.10	\$16.60	High school diploma or equivalent	None	Short-term on-the-job training
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	1	200	260	3.2%	10	10	10	\$8.80	\$12.80	High school diploma or equivalent	None	Short-term on-the-job training
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	3	600	760	2.6%	20	0	20	\$10.50	\$13.30	High school diploma or equivalent	None	Short-term on-the-job training
51-8000	Plant and System Operators		2,930	3,390	1.6%	50	100	150					
51-8012	Power Distributors and Dispatchers	2	150	160	0.7%	0	0	10			High school diploma or equivalent	None	Long-term on-the-job training
51-8013	Power Plant Operators	2	360	360	-0.2%	0	10	10	\$24.20	\$33.80	High school diploma or equivalent	None	Long-term on-the-job training
51-8021	Stationary Engineers and Boiler Operators	2	200	210	0.5%	0	10	10	\$16.90	\$24.10	High school diploma or equivalent	None	Long-term on-the-job training
51-8031	Water and Wastewater Treatment Plant and System Operators	4	1,340	1,600	1.9%	30	50	70	\$13.90	\$20.40	High school diploma or equivalent	None	Long-term on-the-job training
51-8091	Chemical Plant and System Operators	2	110	140	2.1%	0	0	10	\$17.80	\$29.10	High school diploma or equivalent	None	Long-term on-the-job training
51-8092	Gas Plant Operators	2	100	110	0.8%	0	0	0	\$21.80	\$30.10	High school diploma or equivalent	None	Long-term on-the-job training
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	4	610	760	2.4%	20	20	40	\$26.30	\$33.10	High school diploma or equivalent	None	Long-term on-the-job training
51-8099	Plant and System Operators, All Other	NR	60	70	1.6%	0	0	0	\$16.80	\$25.30	High school diploma or equivalent	None	Long-term on-the-job training

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51-9000	Other Production Occupations	#N/A	22,090	26,530	2.0%	450	520	970					
51-9011	Chemical Equipment Operators and Tenders	3	480	560	1.8%	10	20	30	\$16.10	\$21.90	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	2	190	220	1.7%	0	10	10	\$12.60	\$19.80	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	0	210	230	1.0%	0	10	10	\$10.10	\$13.30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9022	Grinding and Polishing Workers, Hand	1	350	420	1.8%	10	10	20	\$9.20	\$11.40	Less than high school	None	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	3	1,500	1,800	2.0%	30	40	70	\$9.30	\$14.30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9031	Cutters and Trimmers, Hand	NR	50	60	1.5%	0	0	0	\$9.70	\$11.70	Less than high school	None	Short-term on-the-job training
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	0	500	550	1.1%	10	10	10	\$9.10	\$12.30	High school diploma or equivalent	None	Short-term on-the-job training
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	3	460	550	1.9%	10	10	20	\$11.10	\$15.60	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	0	100	100	0.7%	0	0	0	\$10.60	\$14.80	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	4	4,330	5,300	2.3%	100	100	190	\$11.60	\$17.40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9071	Jewelers and Precious Stone and Metal Workers	1	430	500	1.8%	10	10	20	\$9.80	\$11.10	High school diploma or equivalent	None	Long-term on-the-job training
51-9081	Dental Laboratory Technicians	3	620	840	3.6%	20	20	40	\$11.30	\$16.50	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9082	Medical Appliance Technicians	3	580	790	3.6%	20	20	40	\$10.00	\$16.50	High school diploma or equivalent	None	Long-term on-the-job training
51-9083	Ophthalmic Laboratory Technicians	1	210	280	3.1%	10	10	10	\$9.90	\$12.60	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	1	4,180	5,030	2.0%	90	100	190	\$9.00	\$12.50	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	3	820	950	1.6%	10	10	30	\$10.80	\$14.30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9122	Painters, Transportation Equipment	4	310	510	6.8%	20	10	20	\$13.30	\$18.10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9123	Painting, Coating, and Decorating Workers	0	160	190	1.9%	0	0	0	\$8.70	\$11.60	Less than high school	None	Moderate-term on-the-job training
51-9141	Semiconductor Processors	2	660	660	0.0%	0	20	20			Associate's degree	None	Moderate-term on-the-job training
51-9151	Photographic Process Workers and Processing Machine Operators	0	260	280	0.9%	0	10	10	\$9.00	\$11.70	High school diploma or equivalent	None	Short-term on-the-job training
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	0	100	110	0.8%	0	0	0	\$11.50	\$14.50	Less than high school	None	Moderate-term on-the-job training
51-9193	Cooling and Freezing Equipment Operators and Tenders	2	130	160	1.8%	0	0	10	\$14.00	\$17.80	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9194	Etchers and Engravers	NR	60	70	1.1%	0	0	0	\$11.00	\$14.30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	3	650	770	1.8%	10	20	30	\$11.10	\$15.80	High school diploma or equivalent	None	Long-term on-the-job training
51-9196	Paper Goods Machine Setters, Operators, and Tenders	2	890	990	1.2%	10	10	20	\$12.60	\$18.20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9198	Helpers--Production Workers	1	2,670	3,090	1.6%	40	50	90	\$9.10	\$11.70	Less than high school	None	Short-term on-the-job training
51-9199	Production Workers, All Other	NR	1,120	1,410	2.6%	30	30	60	\$8.70	\$13.10	High school diploma or equivalent	None	Moderate-term on-the-job training
53-0000	Transportation and Material Moving Occupations		81,980	101,240	2.4%	1,930	1,850	3,780	\$9.20	\$14.80			
53-1000	Supervisors of Transportation and Material Moving Workers		3,410	4,310	2.6%	90	90	180					
53-1011	Aircraft Cargo Handling Supervisors	NR	70	90	1.9%	0	0	0	\$13.50	\$17.80	High school diploma or equivalent	Less than 5 years	None
53-1021	First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	4	1,970	2,550	3.0%	60	50	110	\$15.10	\$21.70	High school diploma or equivalent	Less than 5 years	None
53-1031	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	5	1,370	1,670	2.2%	30	40	70	\$18.30	\$26.50	High school diploma or equivalent	Less than 5 years	None
53-2000	Air Transportation Workers		3,420	3,850	1.3%	40	90	130					
53-2012	Commercial Pilots	3	190	240	2.9%	10	10	10		\$64,506		None	Moderate-term on-the-job training
53-2022	Airfield Operations Specialists	2	110	120	1.5%	0	0	0			High school diploma or equivalent	None	Long-term on-the-job training
53-3000	Motor Vehicle Operators		37,670	46,630	2.4%	890	610	1,500					
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	NR	60	80	2.2%	0	0	0	\$8.40	\$12.80	High school diploma or equivalent	None	Moderate-term on-the-job training
53-3021	Bus Drivers, Transit and Intercity	3	920	1,090	1.8%	20	20	30	\$10.80	\$16.00	High school diploma or equivalent	None	Moderate-term on-the-job training
53-3022	Bus Drivers, School or Special Client	1	2,220	2,600	1.7%	40	40	80	\$11.20	\$15.60	High school diploma or equivalent	None	Short-term on-the-job training
53-3031	Driver/Sales Workers	1	3,890	4,850	2.5%	100	60	160	\$8.20	\$9.70	High school diploma or equivalent	None	Short-term on-the-job training
53-3032	Heavy and Tractor-Trailer Truck Drivers	4	21,170	26,300	2.4%	510	340	850	\$14.20	\$19.90	Postsecondary non-degree award	None	Short-term on-the-job training
53-3033	Light Truck or Delivery Services Drivers	1	7,520	9,240	2.3%	170	120	290	\$8.80	\$12.90	High school diploma or equivalent	None	Short-term on-the-job training
53-3041	Taxi Drivers and Chauffeurs	1	1,680	2,260	3.5%	60	20	80	\$8.80	\$11.30	Less than high school	None	Short-term on-the-job training
53-3099	Motor Vehicle Operators, All Other	NR	200	210	0.6%	0	10	10	\$12.70	\$21.20	High school diploma or equivalent	None	Short-term on-the-job training
53-6000	Other Transportation Workers		2,050	2,600	2.6%	60	70	120					
53-6021	Parking Lot Attendants	1	450	540	2.1%	10	20	30	\$8.20	\$10.30	Less than high school	None	Short-term on-the-job training
53-6031	Automotive and Watercraft Service Attendants	1	900	1,200	3.4%	30	30	60	\$8.60	\$10.50	Less than high school	None	Short-term on-the-job training
53-6099	Transportation Workers, All Other	NR	260	330	2.6%	10	10	20	\$11.00	\$21.00	High school diploma or equivalent	None	Short-term on-the-job training
53-7000	Material Moving Workers		34,480	42,900	2.4%	850	970	1,810					
53-7011	Conveyor Operators and Tenders	NR	70	70	0.4%	0	0	0	\$19.80	\$26.20	Less than high school	None	Short-term on-the-job training
53-7021	Crane and Tower Operators	2	300	340	1.4%	0	10	10	\$12.80	\$24.30	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-7032	Excavating and Loading Machine and Dragline Operators	3	680	830	2.3%	20	10	20	\$13.60	\$19.70	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-7033	Loading Machine Operators, Underground Mining	NR	70	60	-0.8%	0	0	0	\$18.60	\$24.90	Less than high school	None	Short-term on-the-job training
53-7051	Industrial Truck and Tractor Operators	3	3,570	3,900	0.9%	30	80	120	\$11.50	\$15.60	Less than high school	None	Short-term on-the-job training
53-7061	Cleaners of Vehicles and Equipment	1	3,440	4,330	2.6%	90	100	180	\$8.10	\$9.20	Less than high school	None	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	1	17,700	22,700	2.8%	500	550	1,050	\$9.20	\$11.90	Less than high school	None	Short-term on-the-job training
53-7063	Machine Feeders and Offbearers	3	980	1,270	3.0%	30	20	50	\$12.20	\$17.20	Less than high school	None	Short-term on-the-job training
53-7064	Packers and Packers, Hand	1	6,350	7,800	2.3%	140	170	310	\$8.10	\$9.50	Less than high school	None	Short-term on-the-job training
53-7071	Gas Compressor and Gas Pumping Station Operators	NR	60	70	1.6%	0	0	0	\$24.90	\$27.10	Less than high school	None	Moderate-term on-the-job training
53-7073	Wellhead Pumps	3	290	370	2.7%	10	10	20	\$17.30	\$22.70	Less than high school	Less than 5 years	Moderate-term on-the-job training
53-7081	Refuse and Recyclable Material Collectors	3	680	840	2.4%	20	10	30	\$11.90	\$16.40	Less than high school	None	Short-term on-the-job training

* Annual average wage or contract wage (education occupations).

NR = Not Rated

Note: Detail may not add to total due to rounding and the exclusion of small and/or confidential occupations.

For Star-rating criteria, see:

<http://jobs.utah.gov/wipubs/outlooks/state/starratings.pdf>

Source: Utah Department of Workforce Services, July 2014.