



Department of
Job & Family
Services

Ohio Short-Term Employment Forecast

1st Quarter 2023 to 1st Quarter 2025



Summary

The Ohio Bureau of Labor Market Information projects that Ohio will have 648,322 annual job openings from the first quarter of 2023 to the first quarter of 2025. This includes 279,980 openings due to workers leaving the labor force and 351,122 openings because of workers changing occupations. We expect an additional 17,220 jobs to be created over the period, a statewide employment increase of 0.6%.

Data Limitations

While we try to ensure the accuracy of the projections, data and forecasts are subject to error. The information in this report is best used as an indicator of employment trends at the time they were produced. Employment forecasts cannot predict unforeseen events or actions. The projections should be used in combination with other data and information. This report provides estimates of the number of jobs, not the number of employees. It makes no distinctions for full-time, part-time, or secondary jobs.

Occupational Openings

The method of estimating occupational openings considers three sources of change: occupational transfers, labor force exits, and industry growth. Occupational transfers occur when a worker moves from one occupation to another. This leaves an opening in the first occupation. Occupational transfers do not include workers who change jobs but stay in the same occupation because there is no impact on the overall employment within the occupation. Openings from labor force exits occur when workers leave the labor force entirely for retirement or other reasons and the worker will be replaced. The last source of job openings is industry growth. As demand for products and services changes for an industry, the number of workers in that industry can increase or decrease. Occupational job growth is the difference between the base employment and projected employment values for a period. The number of openings created by growth is often lower than openings due to labor force exits and occupational transfers.

To estimate occupational openings, Ohio uses national separation rates calculated by the U.S. Bureau of Labor Statistics, which includes separations caused by labor force exits and separations caused by occupational transfers. Projections of separations are combined with projections of employment change to determine occupational openings.

Key Points

Employment projections provide an idea of what is expected for workers in the future. Educators, workforce professionals, employers, job seekers, students, and others can use projections to learn about:

- Areas of the economy that are projected to have positive or negative growth. This indicates the areas expected to have the best employment opportunities.
- Occupations projected to have more job openings than others. This is helpful to stakeholders who prepare and train the workforce.
- Possible career pathways. Occupations with a high number of transfers may lose workers to related occupations that require more education or experience but offer increased pay.

Technical Notes

The Ohio short-term industry and occupational forecasts were derived primarily from data produced by the Occupational Employment and Wage Statistics (OEWS) and the Quarterly Census of Employment and Wages (QCEW) programs. The forecasts were funded by a grant from the U.S. Department of Labor (DOL). Short-term (two-year) and long-term (ten-year) employment forecasts are calculated differently and serve different purposes. The two-year forecasts reflect seasonal and business-cycle changes; the ten-year forecasts are strongly influenced by structural changes in the economy. Short-term forecasts provide more timely information; long-term forecasts are helpful for extended economic planning and evaluation.

Industry Employment Forecast

The forecasting models utilized a historical monthly employment series from the QCEW program data through March 2023. Industry groups with three- or four-digit North American Industry Classification System (NAICS) codes were chosen. Trend, ordinary least squares regression, and autoregressive forecasting models were used. These methods measure the relationships between employment and one or more other economic variables, such as unemployment claims, housing valuations, average manufacturing hours, and more.

Occupational Employment Forecasts

Occupational estimates were derived from an industry-occupation matrix. From a three-year OEWS survey cycle, industry staffing patterns were generated based on the Standard Occupational Classification (SOC) coding structure. Occupational patterns for work arrangements outside the scope of the OEWS program (including agriculture, private household, self-employed and unpaid family workers) were developed using U.S. national staffing patterns and U.S. Census of Agriculture information.

Wages

The median wage estimates were produced using OEWS data, which are based on a semiannual mail survey. The survey gathers employment and wage data for specific occupations by geographic area and industry. Statewide Ohio wages were used when available.

Educational and Training Classifications

DOL's educational and training classification system consists of three categories: a) typical education needed for entry, b) commonly required work experience in related occupations, and c) typical on-the-job training needed to obtain competency in the occupation. Complete definitions can be found at www.bls.gov/emp/documentation/education-training-system.htm.

For additional information or questions, please visit OhioLMI.com or email ContactLMI@jfs.ohio.gov.

Employment Projections Report by Major Industry

First Quarter 2023 to First Quarter 2025

Industry Title	2023 Employment	2025 Projected	Change 2023 - 2025	
			Employment	Percent
Total - All Industries	5,812,309	5,846,750	34,441	0.6%
Goods-Producing	1,016,233	1,030,643	14,410	1.4%
Agriculture, Forestry, Fishing and Hunting	100,507	101,465	958	1.0%
Mining	8,749	9,003	254	2.9%
Construction	221,353	227,194	5,841	2.6%
Manufacturing	685,624	692,981	7,357	1.1%
Service-Providing	4,528,446	4,547,987	19,541	0.4%
Wholesale Trade	239,980	241,467	1,487	0.6%
Retail Trade	539,939	539,033	-906	-0.2%
Transportation and Warehousing	245,348	253,699	8,351	3.4%
Utilities	17,924	17,450	-474	-2.6%
Information	68,326	67,847	-479	-0.7%
Finance and Insurance	256,086	258,077	1,991	0.8%
Real Estate and Rental and Leasing	66,324	66,248	-76	-0.1%
Professional, Scientific, and Technical Services	289,824	295,687	5,863	2.0%
Management of Companies and Enterprises	142,741	145,896	3,155	2.2%
Administrative and Waste Services	301,171	290,933	-10,238	-3.4%
Educational Services	437,261	436,595	-666	-0.2%
Health Care and Social Assistance	831,508	846,592	15,084	1.8%
Arts, Entertainment, and Recreation	67,906	68,654	748	1.1%
Accommodation and Food Services	461,484	457,729	-3,755	-0.8%
Other Services (except Government)	219,568	218,168	-1,400	-0.6%
Government	343,056	343,912	856	0.3%
Self-Employed and Unpaid Family Workers	267,630	268,120	490	0.2%

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, June 2024.

Ohio Short-Term Industry Employment* Projections

First Quarter 2023 to First Quarter 2025

NAICS Code	Industry Title	2023 Employment	2025 Projected	Change 2023 - 2025	
				Employment	Percent
	Total All Industries	5,812,309	5,846,750	34,441	0.6%
	Goods Producing	1,016,233	1,030,643	14,410	1.4%
	Natural Resources and Mining	109,256	110,468	1,212	1.1%
	Agriculture, Forestry, Fishing and Hunting	100,507	101,465	958	1.0%
	Mining, Quarrying, and Oil and Gas Extraction	8,749	9,003	254	2.9%
	Construction	221,353	227,194	5,841	2.6%
236	Construction of Buildings	50,620	51,131	511	1.0%
237	Heavy and Civil Engineering Construction	25,318	25,783	465	1.8%
238	Specialty Trade Contractors	145,415	150,280	4,865	3.3%
	Manufacturing	685,624	692,981	7,357	1.1%
311	Food Manufacturing	63,048	64,379	1,331	2.1%
312	Beverage and Tobacco Product Manufacturing	11,711	12,440	729	6.2%
321	Wood Product Manufacturing	13,582	13,685	103	0.8%
322	Paper Manufacturing	22,255	21,770	-485	-2.2%
323	Printing and Related Support Activities	18,861	18,136	-725	-3.8%
325	Chemical Manufacturing	48,266	48,364	98	0.2%
326	Plastics and Rubber Products Manufacturing	56,324	56,766	442	0.8%
327	Nonmetallic Mineral Product Manufacturing	25,873	25,954	81	0.3%
331	Primary Metal Manufacturing	35,994	35,830	-164	-0.5%
332	Fabricated Metal Product Manufacturing	97,608	100,458	2,850	2.9%
333	Machinery Manufacturing	78,710	79,357	647	0.8%
334	Computer and Electronic Product Manufacturing	21,537	22,137	600	2.8%
335	Electrical Equipment, Appliance, and Component Manufacturing	26,596	26,551	-45	-0.2%
336	Transportation Equipment Manufacturing	117,092	118,395	1,303	1.1%
337	Furniture and Related Product Manufacturing	14,943	15,163	220	1.5%
339	Miscellaneous Manufacturing	21,612	21,826	214	1.0%
	Service-Providing	4,528,446	4,547,987	19,541	0.4%
	Trade, Transportation, and Utilities	1,043,191	1,051,649	8,458	0.8%
	Wholesale Trade	239,980	241,467	1,487	0.6%
423	Merchant Wholesalers, Durable Goods	147,224	148,544	1,320	0.9%
424	Merchant Wholesalers, Nondurable Goods	75,696	75,774	78	0.1%
425	Wholesale Electronic Markets and Agents and Brokers	17,060	17,149	89	0.5%
	Retail Trade	539,939	539,033	-906	-0.2%
441	Motor Vehicle and Parts Dealers	75,928	76,554	626	0.8%
444	Building Material and Garden Equipment and Supplies Dealers	55,103	57,069	1,966	3.6%
445	Food and Beverage Retailers	103,728	103,458	-270	-0.3%
449	Furniture, Home Furnishings, Electronics, and Appliance Retailers	26,557	25,175	-1,382	-5.2%
455	General Merchandise Retailers	113,905	114,271	366	0.3%
456	Health and Personal Care Retailers	35,961	35,571	-390	-1.1%
457	Gasoline Stations and Fuel Dealers	37,140	36,824	-316	-0.9%
458	Clothing, Clothing Accessories, Shoe, and Jewelry Retailers	38,397	37,869	-528	-1.4%
459	Sporting Goods, Hobby, Musical Instrument, Book, and Misc. Retailers	53,220	52,242	-978	-1.8%
	Transportation and Warehousing	245,348	253,699	8,351	3.4%
481	Air Transportation	11,925	12,312	387	3.2%
484	Truck Transportation	70,892	70,905	13	0.0%
485	Transit and Ground Passenger Transport	9,506	9,525	19	0.2%
488	Support Activities for Transportation	23,270	23,230	-40	-0.2%
492	Couriers and Messengers	37,442	39,743	2,301	6.1%
493	Warehousing and Storage	89,429	95,076	5,647	6.3%
	Utilities	17,924	17,450	-474	-2.6%
	Information	68,326	67,847	-479	-0.7%
513	Publishing Industries	21,970	22,006	36	0.2%
516	Broadcasting and Content Providers	6,785	6,692	-93	-1.4%
517	Telecommunications	20,658	20,578	-80	-0.4%
518	Computing Infrastructure Providers, Data Processing, Web Hosting, and Related Services	12,171	12,452	281	2.3%
	Financial Activities	322,410	324,325	1,915	0.6%
	Finance and Insurance	256,086	258,077	1,991	0.8%
522	Credit Intermediation and Related Activities	98,971	100,090	1,119	1.1%
523	Securities, Commodity Contracts, and Other Financial Investments and Related Activities	23,156	24,415	1,259	5.4%
524	Insurance Carriers and Related Activities	132,355	131,910	-445	-0.3%

Ohio Short-Term Industry Employment* Projections

First Quarter 2023 to First Quarter 2025

NAICS Code	Industry Title	2023 Employment	2025 Projected	Change 2023 - 2025	
				Employment	Percent
	Real Estate and Rental and Leasing	66,324	66,248	-76	-0.1%
531	Real Estate	47,971	48,733	762	1.6%
532	Rental and Leasing	17,699	16,862	-837	-4.7%
	Professional and Business Services	733,736	732,516	-1,220	-0.2%
	Professional, Scientific, and Technical Services	289,824	295,687	5,863	2.0%
5411	Legal Services	31,304	30,737	-567	-1.8%
5412	Accounting, Tax Preparation, Bookkeeping, and Payroll Services	34,094	33,824	-270	-0.8%
5413	Architectural, Engineering, and Related Services	46,197	46,880	683	1.5%
5414	Specialized Design Services	6,432	6,564	132	2.1%
5415	Computer Systems Design and Related Services	71,062	72,747	1,685	2.4%
5416	Management, Scientific, and Technical Consulting Services	39,424	41,483	2,059	5.2%
5417	Scientific Research and Development Services	22,365	24,069	1,704	7.6%
5418	Advertising, Public Relations, and Related Services	12,337	11,755	-582	-4.7%
5419	Other Professional, Scientific, and Technical Services	26,609	27,628	1,019	3.8%
	Management of Companies and Enterprises	142,741	145,896	3,155	2.2%
	Administrative and Support and Waste Management and Remediation Services	301,171	290,933	-10,238	-3.4%
561	Administrative and Support Services	282,142	271,459	-10,683	-3.8%
562	Waste Management and Remediation Services	19,029	19,474	445	2.3%
	Education and Health Services	1,268,769	1,283,187	14,418	1.1%
	Educational Services	437,261	436,595	-666	-0.2%
6111	Elementary and Secondary Schools	285,555	283,425	-2,130	-0.7%
6112	Junior Colleges	16,580	16,783	203	1.2%
6113	Colleges, Universities, and Professional Schools	89,359	89,695	336	0.4%
6116	Other Schools and Instruction	12,916	12,867	-49	-0.4%
6117	Educational Support Services	27,541	28,535	994	3.6%
	Health Care and Social Assistance	831,508	846,592	15,084	1.8%
621	Ambulatory Health Care Services	284,201	293,282	9,081	3.2%
622	Hospitals	281,579	282,985	1,406	0.5%
623	Nursing and Residential Care Facilities	147,543	148,174	631	0.4%
624	Social Assistance	118,185	122,151	3,966	3.4%
	Leisure and Hospitality	529,390	526,383	-3,007	-0.6%
	Arts, Entertainment, and Recreation	67,906	68,654	748	1.1%
711	Performing Arts, Spectator Sports, and Related Industries	13,272	11,927	-1,345	-10.1%
	Accommodation and Food Services	461,484	457,729	-3,755	-0.8%
721	Accommodation, including Hotels and Motels	31,541	29,654	-1,887	-6.0%
722	Food Services and Drinking Places	429,943	428,075	-1,868	-0.4%
	Other Services (except Government)	219,568	218,168	-1,400	-0.6%
811	Repair and Maintenance	51,919	51,987	68	0.1%
812	Personal and Laundry Services	52,037	51,318	-719	-1.4%
813	Religious, Grantmaking, Civic, Professional, and Similar Organizations	100,642	100,082	-560	-0.6%
814	Private Households	14,970	14,781	-189	-1.3%
	Government	343,056	343,912	856	0.2%
4911	Postal Service	22,548	21,642	-906	-4.0%
9991	Federal Government, Excluding Post Office	58,283	59,560	1,277	2.2%
9992	State Government, Excluding Education and Hospitals	53,929	53,376	-553	-1.0%
9993	Local Government, Excluding Education and Hospitals	208,296	209,334	1,038	0.5%
	Self Employed and Unpaid Family Workers	267,630	268,120	490	0.2%

* Industries with at least 5,000 employment.

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, June 2024.

Ohio Occupational Employment Projections by Major Occupational Group
First Quarter 2023 to First Quarter 2025
Breakdown of Annual Openings

SOC Code	Occupational Title	Employment		Change in Employment 2023 - 2025	Annual Openings			
		2023 Employment	2025 Projected		Change [1]	Exits [2]	Transfers [3]	Total
	Total, All Occupations	5,812,309	5,846,750	34,441	17,220	279,980	351,122	648,322
11-0000	Management Occupations	451,448	457,092	5,644	2,822	15,949	20,572	39,343
13-0000	Business and Financial Operations Occupations	356,284	360,253	3,969	1,984	10,966	17,142	30,092
15-0000	Computer and Mathematical Occupations	161,276	164,976	3,700	1,850	3,554	5,954	11,358
17-0000	Architecture and Engineering Occupations	99,398	101,656	2,258	1,129	2,766	3,675	7,570
19-0000	Life, Physical, and Social Science Occupations	37,075	37,844	769	384	788	2,368	3,540
21-0000	Community and Social Service Occupations	106,192	108,499	2,307	1,154	4,042	4,942	10,138
23-0000	Legal Occupations	35,702	35,796	94	47	1,008	1,063	2,118
25-0000	Educational Instruction and Library Occupations	321,795	321,961	166	83	13,770	13,314	27,167
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	88,316	87,814	-502	-251	3,833	5,021	8,603
29-0000	Healthcare Practitioners and Technical Occupations	379,416	384,884	5,468	2,734	12,184	9,280	24,198
31-0000	Healthcare Support Occupations	225,618	231,665	6,047	3,024	15,416	17,215	35,655
33-0000	Protective Service Occupations	115,864	115,518	-346	-173	5,810	6,983	12,620
35-0000	Food Preparation and Serving Related Occupations	463,856	462,249	-1,607	-804	39,698	47,808	86,702
37-0000	Building and Grounds Cleaning and Maintenance Occupations	163,563	164,948	1,385	692	10,390	11,659	22,741
39-0000	Personal Care and Service Occupations	124,381	125,008	627	314	8,564	12,826	21,704
41-0000	Sales and Related Occupations	499,895	497,555	-2,340	-1,170	28,712	35,268	62,810
43-0000	Office and Administrative Support Occupations	689,827	679,397	-10,430	-5,215	36,230	40,848	71,863
45-0000	Farming, Fishing, and Forestry Occupations	16,470	16,469	-1	0	918	1,490	2,408
47-0000	Construction and Extraction Occupations	198,549	202,903	4,354	2,177	6,868	10,112	19,157
49-0000	Installation, Maintenance, and Repair Occupations	224,122	227,118	2,996	1,498	8,719	10,833	21,050
51-0000	Production Occupations	494,879	495,930	1,051	526	21,250	30,879	52,655
53-0000	Transportation and Material Moving Occupations	558,383	567,215	8,832	4,416	28,546	41,868	74,830

[1] Numeric change measures the projected annual number of job gains or losses in an occupation for the projected period.

[2] Exits are the projected number of workers leaving an occupation and exiting the labor force entirely.

[3] Transfers are the projected number of workers leaving an occupation and transferring to a different occupation.

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, June 2024.

Ohio's Fastest Growing Occupations*

First Quarter 2023 to First Quarter 2025

SOC Code ¹	Occupational Title	2023 Employment	2025 Projected	Numeric Change	Percent Change	Total Annual Openings	Median Wage** May 2023
29-1171	Nurse Practitioners	11,127	12,147	1,020	9.2%	1,025	\$59.46
15-2051	Data Scientists	3,814	4,070	256	6.7%	362	\$46.67
29-1071	Physician Assistants	3,243	3,439	196	6.0%	263	\$58.74
15-1212	Information Security Analysts	3,746	3,955	209	5.6%	330	\$51.18
11-9111	Medical and Health Services Managers	18,941	19,979	1,038	5.5%	1,866	\$49.85
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	4,562	4,806	244	5.3%	1,025	\$14.77
13-2052	Personal Financial Advisors	11,772	12,372	600	5.1%	1,042	\$39.44
29-2056	Veterinary Technologists and Technicians	4,400	4,622	222	5.0%	519	\$18.18
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	15,646	16,405	759	4.9%	1,696	\$24.32
29-1131	Veterinarians	3,343	3,506	163	4.9%	193	\$50.27
19-5012	Occupational Health and Safety Technicians	1,134	1,188	54	4.8%	148	\$29.52
49-9041	Industrial Machinery Mechanics	15,778	16,516	738	4.7%	1,611	\$29.75
51-9162	Computer Numerically Controlled Tool Programmers	2,065	2,163	98	4.7%	240	\$29.85
15-1252	Software Developers	44,857	46,925	2,068	4.6%	3,464	\$51.71
13-1081	Logisticians	8,135	8,500	365	4.5%	838	\$38.47
31-1120	Home Health and Personal Care Aides	97,957	102,409	4,452	4.5%	16,923	\$14.08
39-3091	Amusement and Recreation Attendants	10,628	11,111	483	4.5%	3,277	\$12.53
21-1023	Mental Health and Substance Abuse Social Workers	6,143	6,402	259	4.2%	564	\$21.71
47-2121	Glaziers	1,320	1,376	56	4.2%	160	\$28.14
53-3054	Taxi Drivers	2,695	2,809	114	4.2%	327	\$15.77
15-2031	Operations Research Analysts	3,931	4,092	161	4.1%	321	\$42.75
19-2012	Physicists	615	640	25	4.1%	49	\$65.81
29-1127	Speech-Language Pathologists	6,613	6,875	262	4.0%	487	\$41.61
47-2181	Roofers	4,952	5,151	199	4.0%	485	\$24.53
31-2011	Occupational Therapy Assistants	3,155	3,276	121	3.9%	500	\$30.04
47-2221	Structural Iron and Steel Workers	2,771	2,875	104	3.8%	292	\$34.97
21-1094	Community Health Workers	1,855	1,923	68	3.7%	220	\$20.00
31-2021	Physical Therapist Assistants	6,207	6,436	229	3.7%	971	\$29.59
39-9031	Exercise Trainers and Group Fitness Instructors	8,904	9,231	327	3.7%	1,826	\$15.93
49-3041	Farm Equipment Mechanics and Service Technicians	1,300	1,348	48	3.7%	133	\$23.21

¹ Occupational codes based on SOC 2010 coding structure. Detailed information - <http://www.bls.gov/soc/>

* Based on occupations with at least 500 workers.

** Wage estimates are based on Ohio's OEWS surveys.

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, June 2024.

Occupations in Ohio with the Most Annual Openings First Quarter 2023 to First Quarter 2025

SOC Code ¹	Occupational Title	Total Annual Openings	Median Wage* May 2023
35-3023	Fast Food and Counter Workers	31,084	\$13.16
41-2011	Cashiers	21,882	\$13.27
53-7065	Stockers and Order Fillers	21,441	\$17.57
31-1120	Home Health and Personal Care Aides	16,923	\$14.08
41-2031	Retail Salespersons	16,564	\$14.46
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	14,491	\$18.08
35-3031	Waiters and Waitresses	14,229	\$13.92
43-4051	Customer Service Representatives	12,499	\$19.17
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	11,027	\$16.27
11-1021	General and Operations Managers	10,931	\$45.14
53-3032	Heavy and Tractor-Trailer Truck Drivers	10,641	\$25.82
43-9061	Office Clerks, General	9,802	\$19.15
51-2090	Miscellaneous Assemblers and Fabricators	9,710	\$19.31
11-9013	Farmers, Ranchers, and Other Agricultural Managers	9,258	\$23.62
31-1131	Nursing Assistants	8,682	\$18.28
35-2014	Cooks, Restaurant	8,148	\$14.89
29-1141	Registered Nurses	7,704	\$38.44
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	6,898	\$17.58
43-3031	Bookkeeping, Accounting, and Auditing Clerks	6,635	\$22.15
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	6,549	\$20.36
49-9071	Maintenance and Repair Workers, General	6,528	\$22.99
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	6,248	\$33.00
25-9045	Teaching Assistants, Except Postsecondary	5,413	\$35,430 ⁺
37-3011	Landscaping and Groundskeeping Workers	5,386	\$17.36
43-4171	Receptionists and Information Clerks	4,843	\$16.38
53-3033	Light Truck Drivers	4,667	\$18.73
39-9011	Childcare Workers	4,577	\$13.44
53-7051	Industrial Truck and Tractor Operators	4,521	\$21.05
41-1011	First-Line Supervisors of Retail Sales Workers	4,317	\$20.27
13-2011	Accountants and Auditors	4,288	\$36.32
37-2012	Maids and Housekeeping Cleaners	4,277	\$13.73
43-1011	First-Line Supervisors of Office and Administrative Support Workers	4,176	\$29.39
33-9032	Security Guards	4,143	\$16.52
47-2061	Construction Laborers	3,942	\$23.40
35-2021	Food Preparation Workers	3,912	\$13.96
43-5071	Shipping, Receiving, and Inventory Clerks	3,908	\$19.13
35-3011	Bartenders	3,862	\$13.19
53-3031	Driver/Sales Workers	3,781	\$14.54

¹ Occupational codes based on SOC 2010 coding structure. Detailed information - <http://www.bls.gov/soc/>

* Wage estimates are based on Ohio's OEWS surveys.

⁺ Statewide annual wage. Certain occupations report wages at the annual level - for elementary and secondary teachers this typically reflects the 9 1/2 month school year.

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, June 2024.

Ohio Occupational Employment* Projections Report, 2023 - 2025

SOC Code ¹	Occupational Title	Employment		Change in Employment		Annual Openings				Median Wage** May 2023
		2023 Annual	2025 Projected	2023 - 2025	Percent	Growth	Exits	Transfers	Total	
00-0000	Total, All Occupations	5,812,309	5,846,750	34,441	0.6%	17,220	279,980	351,122	648,322	\$22.45
11-0000	Management Occupations	451,448	457,092	5,644	1.3%	2,822	15,949	20,572	39,343	\$48.38
11-1011	Chief Executives	5,862	5,732	-130	-2.2%	-65	179	202	316	\$84.58
11-1021	General and Operations Managers	131,180	132,330	1,150	0.9%	575	3,280	7,076	10,931	\$45.14
11-1031	Legislators	3,960	3,997	37	0.9%	18	122	166	306	\$38,890 [†]
11-2021	Marketing Managers	7,435	7,512	77	1.0%	38	178	405	621	\$63.46
11-2022	Sales Managers	15,764	15,867	103	0.7%	52	385	760	1,197	\$64.64
11-2032	Public Relations Managers	876	881	5	0.6%	2	20	38	60	\$59.80
11-2033	Fundraising Managers	878	883	5	0.6%	2	20	39	61	\$47.28
11-3012	Administrative Services Managers	7,331	7,388	57	0.8%	28	258	304	590	\$44.39
11-3013	Facilities Managers	4,333	4,383	50	1.2%	25	140	187	352	\$45.82
11-3021	Computer and Information Systems Managers	12,146	12,458	312	2.6%	156	240	546	942	\$78.02
11-3031	Financial Managers	26,882	27,730	848	3.2%	424	703	1,114	2,241	\$63.27
11-3051	Industrial Production Managers	13,430	13,609	179	1.3%	90	327	578	995	\$48.06
11-3061	Purchasing Managers	2,388	2,418	30	1.3%	15	69	106	190	\$61.78
11-3071	Transportation, Storage, and Distribution Managers	6,314	6,476	162	2.6%	81	180	320	581	\$43.90
11-3121	Human Resources Managers	4,696	4,739	43	0.9%	22	134	214	370	\$60.18
11-3131	Training and Development Managers	701	713	12	1.7%	6	17	36	59	\$52.48
11-9013	Farmers, Ranchers, and Other Agricultural Managers	84,711	85,648	937	1.1%	468	5,952	2,838	9,258	\$23.62
11-9021	Construction Managers	17,112	17,437	325	1.9%	162	432	783	1,377	\$44.74
11-9031	Education and Childcare Administrators, Preschool and Daycare	2,999	2,990	-9	-0.3%	-4	82	115	193	\$21.77
11-9032	Education Administrators, Kindergarten through Secondary	10,932	10,920	-12	-0.1%	-6	298	419	711	\$98,710 [†]
11-9033	Education Administrators, Postsecondary	5,959	5,986	27	0.5%	14	163	229	406	\$40.15
11-9039	Education Administrators, All Other	1,255	1,265	10	0.8%	5	34	48	87	\$33.63
11-9041	Architectural and Engineering Managers	6,644	6,794	150	2.3%	75	132	286	493	\$72.56
11-9051	Food Service Managers	17,159	17,073	-86	-0.5%	-43	625	1,260	1,842	\$27.05
11-9072	Entertainment And Recreation Managers, Except Gambling	719	718	-1	-0.1%	0	29	46	75	\$26.56
11-9081	Lodging Managers	1,679	1,613	-66	-3.9%	-33	62	96	125	\$23.73
11-9111	Medical and Health Services Managers	18,941	19,979	1,038	5.5%	519	542	805	1,866	\$49.85
11-9121	Natural Sciences Managers	1,057	1,079	22	2.1%	11	26	48	85	\$62.61
11-9131	Postmasters and Mail Superintendents	484	465	-19	-3.9%	-10	14	20	24	\$42.68
11-9141	Property, Real Estate, and Community Association Managers	13,451	13,606	155	1.2%	78	568	460	1,106	\$23.66
11-9151	Social and Community Service Managers	5,066	5,206	140	2.8%	70	166	230	466	\$33.26
11-9161	Emergency Management Directors	296	297	1	0.3%	0	8	12	20	\$41.22
11-9171	Funeral Home Managers	1,089	1,075	-14	-1.3%	-7	33	45	71	\$43.94
11-9199	Managers, All Other	16,753	16,870	117	0.7%	58	513	702	1,273	\$60.23
13-0000	Business and Financial Operations Occupations	356,284	360,253	3,969	1.1%	1,984	10,966	17,142	30,092	\$35.95
13-1020	Buyers and Purchasing Agents	21,918	21,763	-155	-0.7%	-78	809	1,156	1,887	\$31.78
13-1031	Claims Adjusters, Examiners, and Investigators	6,933	6,811	-122	-1.8%	-61	176	284	399	\$36.54
13-1032	Insurance Appraisers, Auto Damage	348	346	-2	-0.6%	-1	9	14	22	\$42.03
13-1041	Compliance Officers	9,534	9,664	130	1.4%	65	332	396	793	\$35.85
13-1051	Cost Estimators	8,444	8,521	77	0.9%	38	274	420	732	\$33.75
13-1071	Human Resources Specialists	32,959	33,128	169	0.5%	84	988	1,714	2,786	\$30.11
13-1075	Labor Relations Specialists	3,411	3,209	-202	-5.9%	-101	99	172	170	\$38.41
13-1081	Logisticians	8,135	8,500	365	4.5%	182	224	432	838	\$38.47
13-1082	Project Management Specialists	29,731	30,163	432	1.5%	216	686	1,378	2,280	\$41.89
13-1111	Management Analysts	30,253	30,825	572	1.9%	286	1,051	1,406	2,743	\$40.42
13-1121	Meeting, Convention, and Event Planners	3,781	3,768	-13	-0.3%	-6	154	236	384	\$24.06
13-1131	Fundraisers	5,890	5,903	13	0.2%	6	176	254	436	\$25.45

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SOC Code ¹	Occupational Title	Employment		Change in Employment		Annual Openings				Median Wage** May 2023
		2023 Annual	2025 Projected	2023 - 2025	Percent	Growth	Exits	Transfers	Total	
		13-1141	Compensation, Benefits, and Job Analysis Specialists	2,435	2,490	55	2.3%	28	72	
13-1151	Training and Development Specialists	13,115	13,252	137	1.0%	68	400	692	1,160	\$29.58
13-1161	Market Research Analysts and Marketing Specialists	31,806	32,509	703	2.2%	352	1,007	1,871	3,230	\$31.42
13-1199	Business Operations Specialists, All Other	35,088	35,336	248	0.7%	124	1,172	1,827	3,123	\$34.36
13-2011	Accountants and Auditors	53,322	53,746	424	0.8%	212	1,652	2,424	4,288	\$36.32
13-2020	Property Appraisers and Assessors	2,137	2,170	33	1.5%	16	104	72	192	\$31.87
13-2031	Budget Analysts	765	772	7	0.9%	4	22	28	54	\$40.37
13-2041	Credit Analysts	2,692	2,698	6	0.2%	3	62	124	189	\$33.65
13-2051	Financial and Investment Analysts	9,036	9,217	181	2.0%	90	196	374	660	\$40.37
13-2052	Personal Financial Advisors	11,772	12,372	600	5.1%	300	326	416	1,042	\$39.44
13-2053	Insurance Underwriters	4,840	4,704	-136	-2.8%	-68	144	184	260	\$37.11
13-2054	Financial Risk Specialists	1,799	1,838	39	2.2%	20	42	76	138	\$48.31
13-2061	Financial Examiners	4,303	4,439	136	3.2%	68	138	168	374	\$32.03
13-2071	Credit Counselors	756	766	10	1.3%	5	20	31	56	\$22.21
13-2072	Loan Officers	13,088	13,290	202	1.5%	101	350	537	988	\$30.44
13-2081	Tax Examiners and Collectors, and Revenue Agents	902	915	13	1.4%	6	32	34	72	\$33.03
13-2082	Tax Preparers	2,639	2,639	0	0.0%	0	147	146	293	\$21.76
13-2099	Financial Specialists, All Other	4,195	4,243	48	1.1%	24	97	176	297	\$40.20
15-0000	Computer and Mathematical Occupations	161,276	164,976	3,700	2.3%	1,850	3,554	5,954	11,358	\$44.29
15-1211	Computer Systems Analysts	20,150	20,323	173	0.9%	86	506	672	1,264	\$45.87
15-1212	Information Security Analysts	3,746	3,955	209	5.6%	104	84	142	330	\$51.18
15-1221	Computer and Information Research Scientists	173	180	7	4.0%	4	4	6	14	\$59.14
15-1231	Computer Network Support Specialists	8,426	8,486	60	0.7%	30	208	347	585	\$31.27
15-1232	Computer User Support Specialists	27,150	27,362	212	0.8%	106	670	1,119	1,895	\$24.75
15-1241	Computer Network Architects	4,886	4,902	16	0.3%	8	89	168	265	\$58.98
15-1242	Database Administrators	2,132	2,153	21	1.0%	10	54	69	133	\$45.44
15-1243	Database Architects	1,378	1,386	8	0.6%	4	35	44	83	\$61.17
15-1244	Network and Computer Systems Administrators	18,856	18,916	60	0.3%	30	386	658	1,074	\$46.47
15-1251	Computer Programmers	2,984	2,921	-63	-2.1%	-32	73	105	146	\$37.84
15-1252	Software Developers	44,857	46,925	2,068	4.6%	1,034	788	1,642	3,464	\$51.71
15-1253	Software Quality Assurance Analysts and Testers	4,933	5,070	137	2.8%	68	126	178	372	\$39.69
15-1254	Web Developers	1,887	1,934	47	2.5%	24	38	80	142	\$39.98
15-1255	Web and Digital Interface Designers	2,952	3,029	77	2.6%	38	84	127	249	\$38.51
15-1299	Computer Occupations, All Other	6,952	7,136	184	2.6%	92	170	265	527	\$49.74
15-2011	Actuaries	1,438	1,477	39	2.7%	20	24	45	89	\$53.96
15-2031	Operations Research Analysts	3,931	4,092	161	4.1%	80	116	125	321	\$42.75
15-2041	Statisticians	428	455	27	6.3%	14	10	16	40	\$42.39
15-2051	Data Scientists	3,814	4,070	256	6.7%	128	90	144	362	\$46.67
17-0000	Architecture and Engineering Occupations	99,398	101,656	2,258	2.3%	1,129	2,766	3,675	7,570	\$40.20
17-1011	Architects, Except Landscape and Naval	3,545	3,604	59	1.7%	30	104	110	244	\$46.10
17-1012	Landscape Architects	530	539	9	1.7%	4	20	21	45	\$28.56
17-1021	Cartographers and Photogrammetrists	231	234	3	1.3%	2	7	8	17	\$35.70
17-1022	Surveyors	976	991	15	1.5%	8	30	31	69	\$29.05
17-2011	Aerospace Engineers	3,103	3,204	101	3.3%	50	72	92	214	\$62.85
17-2031	Bioengineers and Biomedical Engineers	398	409	11	2.8%	6	7	15	28	\$48.08
17-2041	Chemical Engineers	1,005	1,030	25	2.5%	12	22	31	65	\$52.13
17-2051	Civil Engineers	7,919	8,059	140	1.8%	70	172	296	538	\$40.11
17-2061	Computer Hardware Engineers	620	632	12	1.9%	6	12	22	40	\$47.64
17-2071	Electrical Engineers	6,225	6,318	93	1.5%	46	146	186	378	\$48.19

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		2023 Annual	2025 Projected	2023 - 2025	Percent	Growth	Exits	Transfers	Total	
		17-2072	Electronics Engineers, Except Computer	4,444	4,498	54	1.2%	27	104	
17-2081	Environmental Engineers	1,566	1,599	33	2.1%	16	48	52	116	\$59.54
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	469	478	9	1.9%	4	12	14	30	\$49.53
17-2112	Industrial Engineers	19,264	19,940	676	3.5%	338	476	594	1,408	\$46.40
17-2131	Materials Engineers	1,529	1,558	29	1.9%	14	42	50	106	\$48.86
17-2141	Mechanical Engineers	16,089	16,675	586	3.6%	293	364	525	1,182	\$44.41
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	154	157	3	1.9%	2	3	6	11	\$35.12
17-2161	Nuclear Engineers	238	233	-5	-2.1%	-2	6	8	12	\$57.83
17-2171	Petroleum Engineers	222	227	5	2.3%	2	4	8	14	\$50.07
17-2199	Engineers, All Other	6,926	7,031	105	1.5%	52	167	228	447	\$51.15
17-3011	Architectural and Civil Drafters	2,853	2,879	26	0.9%	13	118	146	277	\$28.90
17-3012	Electrical and Electronics Drafters	515	516	1	0.2%	0	18	24	42	\$38.31
17-3013	Mechanical Drafters	1,776	1,769	-7	-0.4%	-4	62	81	139	\$30.44
17-3019	Drafters, All Other	387	387	0	0.0%	0	14	18	32	\$24.71
17-3021	Aerospace Engineering and Operations Technologists and Technicians	876	904	28	3.2%	14	34	46	94	\$37.25
17-3022	Civil Engineering Technologists and Technicians	1,837	1,848	11	0.6%	6	70	95	171	\$29.91
17-3023	Electrical and Electronics Engineering Technologists and Technicians	2,203	2,216	13	0.6%	6	112	99	217	\$35.38
17-3024	Electro-Mechanical and Mechatronics Technologists and Technicians	1,475	1,525	50	3.4%	25	57	78	160	\$28.98
17-3025	Environmental Engineering Technologists and Technicians	489	492	3	0.6%	2	18	26	46	\$24.15
17-3026	Industrial Engineering Technologists and Technicians	5,269	5,348	79	1.5%	40	202	274	516	\$28.78
17-3027	Mechanical Engineering Technologists and Technicians	2,298	2,341	43	1.9%	22	88	120	230	\$30.06
17-3028	Calibration Technologists and Technicians	519	524	5	1.0%	2	20	27	49	\$28.10
17-3029	Engineering Technologists and Technicians, Except Drafters, All Other	1,763	1,784	21	1.2%	10	68	92	170	\$29.23
17-3031	Surveying and Mapping Technicians	1,605	1,626	21	1.3%	10	68	120	198	\$23.50
19-0000	Life, Physical, and Social Science Occupations	37,075	37,844	769	2.1%	384	788	2,368	3,540	\$34.19
19-1012	Food Scientists and Technologists	351	368	17	4.8%	8	6	22	36	\$26.96
19-1013	Soil and Plant Scientists	346	353	7	2.0%	4	6	22	32	\$30.14
19-1021	Biochemists and Biophysicists	281	297	16	5.7%	8	4	16	28	\$38.77
19-1022	Microbiologists	676	692	16	2.4%	8	11	38	57	\$38.71
19-1023	Zoologists and Wildlife Biologists	216	220	4	1.9%	2	4	12	18	\$29.30
19-1029	Biological Scientists, All Other	497	508	11	2.2%	6	8	28	42	\$41.68
19-1031	Conservation Scientists	441	446	5	1.1%	2	8	27	37	\$28.12
19-1032	Foresters	147	145	-2	-1.4%	-1	2	9	10	\$37.59
19-1041	Epidemiologists	262	275	13	5.0%	6	3	10	19	\$32.60
19-2012	Physicists	615	640	25	4.1%	12	15	22	49	\$65.81
19-2031	Chemists	3,473	3,523	50	1.4%	25	54	184	263	\$39.46
19-2032	Materials Scientists	377	390	13	3.4%	6	6	20	32	\$45.25
19-2041	Environmental Scientists and Specialists, Including Health	2,438	2,489	51	2.1%	26	40	152	218	\$38.35
19-2042	Geoscientists, Except Hydrologists and Geographers	361	372	11	3.0%	6	5	23	34	\$37.32
19-2043	Hydrologists	334	337	3	0.9%	2	4	21	27	\$43.99
19-2099	Physical Scientists, All Other	791	816	25	3.2%	12	10	42	64	\$51.18
19-3011	Economists	201	204	3	1.5%	2	3	9	14	\$52.08
19-3022	Survey Researchers	172	172	0	0.0%	0	3	11	14	\$23.54
19-3033	Clinical and Counseling Psychologists	2,062	2,095	33	1.6%	16	44	54	114	\$50.81
19-3034	School Psychologists	2,248	2,270	22	1.0%	11	40	105	156	\$45.27
19-3039	Psychologists, All Other	1,647	1,671	24	1.5%	12	50	54	116	\$56.93
19-3051	Urban and Regional Planners	827	836	9	1.1%	4	20	45	69	\$34.33
19-3099	Social Scientists and Related Workers, All Other	1,535	1,562	27	1.8%	14	28	97	139	\$44.24
19-4012	Agricultural Technicians	272	279	7	2.6%	4	7	30	41	\$21.22

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		2023 Annual	2025 Projected	2023 - 2025	Percent	Growth	Exits	Transfers	Total	
		19-4013	Food Science Technicians	192	202	10	5.2%	5	5	
19-4021	Biological Technicians	1,684	1,701	17	1.0%	8	54	152	214	\$27.03
19-4031	Chemical Technicians	2,081	2,094	13	0.6%	6	44	196	246	\$25.30
19-4042	Environmental Science and Protection Technicians, Including Health	958	979	21	2.2%	10	17	80	107	\$23.31
19-4043	Geological Technicians, Except Hydrologic Technicians	174	180	6	3.4%	3	3	14	20	\$33.71
19-4061	Social Science Research Assistants	408	411	3	0.7%	2	12	38	52	\$24.00
19-4071	Forest and Conservation Technicians	304	307	3	1.0%	2	8	28	38	\$20.42
19-4092	Forensic Science Technicians	465	477	12	2.6%	6	14	44	64	\$31.28
19-4099	Life, Physical, and Social Science Technicians, All Other	1,349	1,357	8	0.6%	4	38	126	168	\$21.38
19-5011	Occupational Health and Safety Specialists	5,096	5,274	178	3.5%	89	146	398	633	\$37.00
19-5012	Occupational Health and Safety Technicians	1,134	1,188	54	4.8%	27	32	89	148	\$29.52
21-0000	Community and Social Service Occupations	106,192	108,499	2,307	2.2%	1,154	4,042	4,942	10,138	\$24.08
21-1012	Educational, Guidance, and Career Counselors and Advisors	11,655	11,710	55	0.5%	28	351	472	851	\$30.29
21-1013	Marriage and Family Therapists	248	257	9	3.6%	4	8	8	20	\$27.66
21-1015	Rehabilitation Counselors	3,398	3,457	59	1.7%	30	112	151	293	\$21.49
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	15,646	16,405	759	4.9%	380	576	740	1,696	\$24.32
21-1019	Counselors, All Other	1,486	1,533	47	3.2%	24	62	76	162	\$21.76
21-1021	Child, Family, and School Social Workers	11,164	11,379	215	1.9%	108	365	490	963	\$23.20
21-1022	Healthcare Social Workers	7,688	7,823	135	1.8%	68	288	364	720	\$29.58
21-1023	Mental Health and Substance Abuse Social Workers	6,143	6,402	259	4.2%	130	234	200	564	\$21.71
21-1029	Social Workers, All Other	3,420	3,501	81	2.4%	40	112	162	314	\$28.87
21-1091	Health Education Specialists	1,879	1,914	35	1.9%	18	76	110	204	\$29.90
21-1092	Probation Officers and Correctional Treatment Specialists	2,758	2,774	16	0.6%	8	85	122	215	\$28.99
21-1093	Social and Human Service Assistants	13,622	14,012	390	2.9%	195	610	789	1,594	\$18.58
21-1094	Community Health Workers	1,855	1,923	68	3.7%	34	76	110	220	\$20.00
21-1099	Community and Social Service Specialists, All Other	2,056	2,089	33	1.6%	16	84	120	220	\$23.07
21-2011	Clergy	19,034	19,154	120	0.6%	60	764	788	1,612	\$26.68
21-2021	Directors, Religious Activities and Education	1,820	1,829	9	0.5%	4	76	98	178	\$21.63
21-2099	Religious Workers, All Other	2,320	2,337	17	0.7%	8	164	142	314	\$14.27
23-0000	Legal Occupations	35,702	35,796	94	0.3%	47	1,008	1,063	2,118	\$42.41
23-1011	Lawyers	21,039	21,192	153	0.7%	76	491	318	885	\$56.49
23-1012	Judicial Law Clerks	238	240	2	0.8%	1	8	7	16	\$26.60
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	365	367	2	0.5%	1	8	6	15	\$35.00
23-1022	Arbitrators, Mediators, and Conciliators	160	160	0	0.0%	0	4	2	6	\$38.35
23-1023	Judges, Magistrate Judges, and Magistrates	2,565	2,575	10	0.4%	5	60	38	103	\$67.15
23-2011	Paralegals and Legal Assistants	8,428	8,395	-33	-0.4%	-16	316	533	833	\$25.64
23-2093	Title Examiners, Abstractors, and Searchers	2,137	2,092	-45	-2.1%	-22	86	113	177	\$23.90
23-2099	Legal Support Workers, All Other	770	775	5	0.6%	2	36	46	84	\$29.43
25-0000	Educational Instruction and Library Occupations	321,795	321,961	166	0.1%	83	13,770	13,314	27,167	\$29.88
25-1011	Business Teachers, Postsecondary	5,229	5,293	64	1.2%	32	232	178	442	\$81,500 *
25-1021	Computer Science Teachers, Postsecondary	860	869	9	1.0%	4	38	29	71	\$77,840 *
25-1022	Mathematical Science Teachers, Postsecondary	1,549	1,558	9	0.6%	4	68	52	124	\$77,320 *
25-1032	Engineering Teachers, Postsecondary	1,221	1,240	19	1.6%	10	54	42	106	\$105,590 *
25-1042	Biological Science Teachers, Postsecondary	1,389	1,410	21	1.5%	10	62	47	119	\$77,950 *
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	300	302	2	0.7%	1	14	10	25	\$82,050 *
25-1052	Chemistry Teachers, Postsecondary	700	704	4	0.6%	2	31	24	57	\$77,210 *
25-1053	Environmental Science Teachers, Postsecondary	214	215	1	0.5%	0	10	7	17	\$82,870 *
25-1054	Physics Teachers, Postsecondary	376	378	2	0.5%	1	16	12	29	\$92,440 *
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	304	305	1	0.3%	0	14	10	24	\$73,430 *

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SOC Code ¹	Occupational Title	Employment		Change in Employment		Annual Openings				Median Wage** May 2023
		2023 Annual	2025 Projected	2023 - 2025	Percent	Growth	Exits	Transfers	Total	
25-1063	Economics Teachers, Postsecondary	238	239	1	0.4%	0	10	8	18	\$102,500 ⁺
25-1064	Geography Teachers, Postsecondary	144	144	0	0.0%	0	6	5	11	\$80,500 ⁺
25-1065	Political Science Teachers, Postsecondary	393	394	1	0.3%	0	18	14	32	\$78,520 ⁺
25-1066	Psychology Teachers, Postsecondary	1,241	1,252	11	0.9%	6	55	42	103	\$80,200 ⁺
25-1067	Sociology Teachers, Postsecondary	409	410	1	0.2%	0	18	14	32	\$77,660 ⁺
25-1069	Social Sciences Teachers, Postsecondary, All Other	253	254	1	0.4%	0	11	8	19	\$66,730 ⁺
25-1071	Health Specialties Teachers, Postsecondary	6,778	7,003	225	3.3%	112	304	232	648	\$105,410 ⁺
25-1072	Nursing Instructors and Teachers, Postsecondary	3,663	3,790	127	3.5%	64	164	126	354	\$76,640 ⁺
25-1081	Education Teachers, Postsecondary	1,859	1,867	8	0.4%	4	82	63	149	\$66,320 ⁺
25-1082	Library Science Teachers, Postsecondary	135	136	1	0.7%	0	6	4	10	\$80,430 ⁺
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	542	547	5	0.9%	2	24	18	44	\$62,670 ⁺
25-1112	Law Teachers, Postsecondary	431	432	1	0.2%	0	19	14	33	\$114,380 ⁺
25-1113	Social Work Teachers, Postsecondary	489	491	2	0.4%	1	22	16	39	\$64,400 ⁺
25-1121	Art, Drama, and Music Teachers, Postsecondary	3,700	3,713	13	0.4%	6	163	125	294	\$74,040 ⁺
25-1122	Communications Teachers, Postsecondary	1,059	1,065	6	0.6%	3	47	36	86	\$67,540 ⁺
25-1123	English Language and Literature Teachers, Postsecondary	1,702	1,704	2	0.1%	1	75	58	134	\$66,140 ⁺
25-1124	Foreign Language and Literature Teachers, Postsecondary	754	753	-1	-0.1%	0	33	26	59	\$65,590 ⁺
25-1125	History Teachers, Postsecondary	578	578	0	0.0%	0	26	20	46	\$80,100 ⁺
25-1126	Philosophy and Religion Teachers, Postsecondary	681	683	2	0.3%	1	30	23	54	\$78,220 ⁺
25-1192	Family and Consumer Sciences Teachers, Postsecondary	101	102	1	1.0%	0	4	4	8	\$60,830 ⁺
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	564	566	2	0.4%	1	25	19	45	\$63,880 ⁺
25-1194	Career/Technical Education Teachers, Postsecondary	3,636	3,612	-24	-0.7%	-12	160	122	270	\$30.97
25-1199	Postsecondary Teachers, All Other	5,620	5,666	46	0.8%	23	248	190	461	\$59,510 ⁺
25-2011	Preschool Teachers, Except Special Education	15,762	15,932	170	1.1%	85	725	935	1,745	\$16.24
25-2012	Kindergarten Teachers, Except Special Education	2,329	2,314	-15	-0.6%	-8	106	137	235	\$63,680 ⁺
25-2021	Elementary School Teachers, Except Special Education	49,299	49,037	-262	-0.5%	-131	1,651	1,616	3,136	\$74,530 ⁺
25-2022	Middle School Teachers, Except Special and Career/Technical Education	28,049	27,907	-142	-0.5%	-71	940	920	1,789	\$75,420 ⁺
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	57,803	57,610	-193	-0.3%	-96	1,674	1,861	3,439	\$78,010 ⁺
25-2032	Career/Technical Education Teachers, Secondary School	4,553	4,521	-32	-0.7%	-16	132	146	262	\$78,500 ⁺
25-2051	Special Education Teachers, Preschool	1,029	1,035	6	0.6%	3	34	34	71	\$66,770 ⁺
25-2052	Special Education Teachers, Kindergarten and Elementary School	8,158	8,102	-56	-0.7%	-28	272	269	513	\$71,100 ⁺
25-2057	Special Education Teachers, Middle School	5,692	5,651	-41	-0.7%	-20	190	188	358	\$65,910 ⁺
25-2058	Special Education Teachers, Secondary School	9,161	9,218	57	0.6%	28	308	304	640	\$74,850 ⁺
25-3021	Self-Enrichment Teachers	10,703	10,711	8	0.1%	4	668	608	1,280	\$17.09
25-3031	Substitute Teachers, Short-Term	5,420	5,404	-16	-0.3%	-8	338	307	637	\$17.38
25-3041	Tutors	6,873	6,888	15	0.2%	8	624	536	1,168	\$20.92
25-3099	Teachers and Instructors, All Other	1,272	1,292	20	1.6%	10	80	73	163	\$51,090 ⁺
25-4011	Archivists	127	129	2	1.6%	1	8	7	16	\$27.84
25-4012	Curators	326	330	4	1.2%	2	20	18	40	\$27.61
25-4013	Museum Technicians and Conservators	375	379	4	1.1%	2	23	21	46	\$22.24
25-4022	Librarians and Media Collections Specialists	4,771	4,787	16	0.3%	8	262	181	451	\$28.31
25-4031	Library Technicians	3,440	3,391	-49	-1.4%	-24	342	224	542	\$17.72
25-9031	Instructional Coordinators	5,726	5,742	16	0.3%	8	264	225	497	\$36.23
25-9044	Teaching Assistants, Postsecondary	3,581	3,601	20	0.6%	10	204	212	426	\$50,530 ⁺
25-9045	Teaching Assistants, Except Postsecondary	46,168	46,262	94	0.2%	47	2,634	2,732	5,413	\$35,430 ⁺
25-9099	Educational Instruction and Library Workers, All Other	1,398	1,405	7	0.5%	4	64	55	123	\$22.50
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	88,316	87,814	-502	-0.6%	-251	3,833	5,021	8,603	\$22.17
27-1011	Art Directors	2,295	2,289	-6	-0.3%	-3	105	109	211	\$44.09
27-1012	Craft Artists	938	944	6	0.6%	3	43	45	91	\$18.35

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		2023 Annual	2025 Projected	2023 - 2025	Percent	Growth	Exits	Transfers	Total	
		27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	982	984	2	0.2%	1	45	
27-1019	Artists and Related Workers, All Other	219	223	4	1.8%	2	10	10	22	\$24.65
27-1021	Commercial and Industrial Designers	1,734	1,766	32	1.8%	16	38	78	132	\$31.58
27-1022	Fashion Designers	414	413	-1	-0.2%	0	12	25	37	\$38.22
27-1023	Floral Designers	1,971	1,857	-114	-5.8%	-57	120	100	163	\$13.84
27-1024	Graphic Designers	9,391	9,290	-101	-1.1%	-50	267	478	695	\$24.26
27-1025	Interior Designers	2,402	2,430	28	1.2%	14	103	111	228	\$24.78
27-1026	Merchandise Displayers and Window Trimmers	6,709	6,815	106	1.6%	53	324	462	839	\$16.92
27-1027	Set and Exhibit Designers	473	475	2	0.4%	1	13	24	38	\$25.30
27-2011	Actors	977	970	-7	-0.7%	-4	52	59	107	\$10.36
27-2012	Producers and Directors	2,262	2,167	-95	-4.2%	-48	63	118	133	\$28.00
27-2022	Coaches and Scouts	14,658	14,810	152	1.0%	76	808	1,030	1,914	\$37,060 ⁺
27-2023	Umpires, Referees, and Other Sports Officials	144	142	-2	-1.4%	-1	19	14	32	\$23,130 ⁺
27-2041	Music Directors and Composers	2,154	2,156	2	0.1%	1	104	105	210	\$28.90
27-2042	Musicians and Singers	7,395	7,317	-78	-1.1%	-39	511	431	903	\$34.37
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	290	286	-4	-1.4%	-2	16	18	32	\$14.67
27-3011	Broadcast Announcers and Radio Disc Jockeys	736	713	-23	-3.1%	-12	36	38	62	\$18.52
27-3023	News Analysts, Reporters, and Journalists	2,359	2,233	-126	-5.3%	-63	101	147	185	\$17.94
27-3031	Public Relations Specialists	7,577	7,581	4	0.1%	2	182	412	596	\$32.88
27-3041	Editors	2,518	2,351	-167	-6.6%	-84	112	132	160	\$29.70
27-3042	Technical Writers	1,880	1,879	-1	-0.1%	0	54	96	150	\$30.28
27-3043	Writers and Authors	3,043	3,029	-14	-0.5%	-7	136	158	287	\$26.95
27-3091	Interpreters and Translators	2,452	2,508	56	2.3%	28	126	118	272	\$26.02
27-3092	Court Reporters and Simultaneous Captioners	513	483	-30	-5.8%	-15	30	18	33	\$27.21
27-3099	Media and Communication Workers, All Other	257	246	-11	-4.3%	-6	6	14	14	\$18.96
27-4011	Audio and Video Technicians	1,431	1,402	-29	-2.0%	-14	42	82	110	\$23.64
27-4021	Photographers	4,721	4,772	51	1.1%	26	178	239	443	\$17.31
27-4031	Camera Operators, Television, Video, and Film	453	438	-15	-3.3%	-8	12	26	30	\$23.48
27-4032	Film and Video Editors	988	957	-31	-3.1%	-16	26	56	66	\$23.02
27-4099	Media and Communication Equipment Workers, All Other	656	659	3	0.5%	2	20	38	60	\$30.04
29-0000	Healthcare Practitioners and Technical Occupations	379,416	384,884	5,468	1.4%	2,734	12,184	9,280	24,198	\$37.26
29-1011	Chiropractors	1,346	1,356	10	0.7%	5	40	10	55	\$39.24
29-1021	Dentists, General	3,440	3,474	34	1.0%	17	76	20	113	\$80.28
29-1029	Dentists, All Other Specialists	220	223	3	1.4%	2	5	2	9	\$97.56
29-1031	Dietitians and Nutritionists	2,926	2,953	27	0.9%	14	106	80	200	\$30.87
29-1041	Optometrists	2,121	2,144	23	1.1%	12	50	12	74	\$60.89
29-1051	Pharmacists	12,307	12,403	96	0.8%	48	285	171	504	\$63.81
29-1071	Physician Assistants	3,243	3,439	196	6.0%	98	74	91	263	\$58.74
29-1081	Podiatrists	342	342	0	0.0%	0	8	2	10	\$57.66
29-1122	Occupational Therapists	5,498	5,622	124	2.3%	62	162	139	363	\$43.52
29-1123	Physical Therapists	8,555	8,750	195	2.3%	98	199	134	431	\$47.33
29-1124	Radiation Therapists	854	859	5	0.6%	2	20	14	36	\$45.03
29-1125	Recreational Therapists	434	434	0	0.0%	0	18	14	32	\$27.59
29-1126	Respiratory Therapists	5,820	5,916	96	1.6%	48	180	108	336	\$37.11
29-1127	Speech-Language Pathologists	6,613	6,875	262	4.0%	131	183	173	487	\$41.61
29-1128	Exercise Physiologists	743	758	15	2.0%	8	24	20	52	\$25.06
29-1131	Veterinarians	3,343	3,506	163	4.9%	82	78	33	193	\$50.27
29-1141	Registered Nurses	132,194	133,324	1,130	0.9%	565	4,408	2,731	7,704	\$38.44
29-1151	Nurse Anesthetists	3,736	3,783	47	1.3%	24	72	74	170	\$94.47

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		29-1161	Nurse Midwives	136	137	1	0.7%	0	3	
29-1171	Nurse Practitioners	11,127	12,147	1,020	9.2%	510	257	258	1,025	\$59.46
29-1181	Audiologists	617	627	10	1.6%	5	20	11	36	\$39.59
29-1211	Anesthesiologists	1,709	1,719	10	0.6%	5	35	10	50	#
29-1212	Cardiologists	415	420	5	1.2%	2	8	2	12	#
29-1213	Dermatologists	351	354	3	0.9%	2	7	2	11	#
29-1214	Emergency Medicine Physicians	939	958	19	2.0%	10	20	6	36	#
29-1215	Family Medicine Physicians	4,011	4,032	21	0.5%	10	82	24	116	\$35.77
29-1216	General Internal Medicine Physicians	1,315	1,324	9	0.7%	4	27	8	39	\$96.15
29-1217	Neurologists	235	235	0	0.0%	0	5	2	7	#
29-1218	Obstetricians and Gynecologists	705	709	4	0.6%	2	14	4	20	\$96.15
29-1221	Pediatricians, General	1,917	1,922	5	0.3%	2	40	12	54	\$82.63
29-1222	Physicians, Pathologists	289	291	2	0.7%	1	6	2	9	#
29-1223	Psychiatrists	611	631	20	3.3%	10	12	4	26	\$106.47
29-1229	Physicians, All Other	13,444	13,555	111	0.8%	56	276	80	412	#
29-1241	Ophthalmologists, Except Pediatric	833	842	9	1.1%	4	14	4	22	#
29-1242	Orthopedic Surgeons, Except Pediatric	424	426	2	0.5%	1	8	2	11	#
29-1249	Surgeons, All Other	519	519	0	0.0%	0	9	3	12	#
29-1292	Dental Hygienists	8,448	8,575	127	1.5%	64	365	186	615	\$38.31
29-1299	Healthcare Diagnosing or Treating Practitioners, All Other	774	785	11	1.4%	6	28	16	50	\$41.67
29-2010	Clinical Laboratory Technologists and Technicians	12,940	13,033	93	0.7%	46	440	384	870	\$29.15
29-2031	Cardiovascular Technologists and Technicians	2,493	2,505	12	0.5%	6	82	70	158	\$35.70
29-2032	Diagnostic Medical Sonographers	3,649	3,741	92	2.5%	46	101	86	233	\$38.13
29-2033	Nuclear Medicine Technologists	940	936	-4	-0.4%	-2	22	21	41	\$42.17
29-2034	Radiologic Technologists and Technicians	10,464	10,531	67	0.6%	34	320	226	580	\$32.48
29-2035	Magnetic Resonance Imaging Technologists	1,650	1,666	16	1.0%	8	50	37	95	\$38.11
29-2042	Emergency Medical Technicians	5,385	5,477	92	1.7%	46	138	237	421	\$18.41
29-2043	Paramedics	3,270	3,317	47	1.4%	24	66	82	172	\$23.14
29-2051	Dietetic Technicians	1,237	1,239	2	0.2%	1	64	68	133	\$17.25
29-2052	Pharmacy Technicians	16,443	16,633	190	1.2%	95	647	833	1,575	\$18.41
29-2053	Psychiatric Technicians	1,778	1,833	55	3.1%	28	70	76	174	\$17.28
29-2055	Surgical Technologists	3,957	3,994	37	0.9%	18	120	116	254	\$28.33
29-2056	Veterinary Technologists and Technicians	4,400	4,622	222	5.0%	111	155	253	519	\$18.18
29-2057	Ophthalmic Medical Technicians	3,204	3,283	79	2.5%	40	166	179	385	\$18.86
29-2061	Licensed Practical and Licensed Vocational Nurses	38,042	38,293	251	0.7%	126	1,547	1,340	3,013	\$27.95
29-2072	Medical Records Specialists	8,367	8,492	125	1.5%	62	316	240	618	\$23.08
29-2081	Opticians, Dispensing	2,898	2,912	14	0.5%	7	120	120	247	\$22.54
29-2091	Orthotists and Prosthetists	436	450	14	3.2%	7	16	14	37	\$37.61
29-2092	Hearing Aid Specialists	154	159	5	3.2%	2	6	5	13	\$28.30
29-2099	Health Technologists and Technicians, All Other	8,114	8,247	133	1.6%	66	290	252	608	\$21.19
29-9021	Health Information Technologists and Medical Registrars	1,403	1,431	28	2.0%	14	47	38	99	\$32.43
29-9091	Athletic Trainers	1,822	1,861	39	2.1%	20	61	50	131	\$57,780 ¹
29-9093	Surgical Assistants	694	701	7	1.0%	4	23	19	46	\$31.28
29-9099	Healthcare Practitioners and Technical Workers, All Other	1,458	1,477	19	1.3%	10	48	40	98	\$21.40
31-0000	Healthcare Support Occupations	225,618	231,665	6,047	2.7%	3,024	15,416	17,215	35,655	\$17.07
31-1120	Home Health and Personal Care Aides	97,957	102,409	4,452	4.5%	2,226	8,014	6,683	16,923	\$14.08
31-1131	Nursing Assistants	60,861	60,977	116	0.2%	58	3,856	4,768	8,682	\$18.28
31-1132	Orderlies	2,167	2,175	8	0.4%	4	126	192	322	\$17.37
31-1133	Psychiatric Aides	548	563	15	2.7%	8	32	49	89	\$17.76

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		31-2011	Occupational Therapy Assistants	3,155	3,276	121	3.9%	60	159	
31-2021	Physical Therapist Assistants	6,207	6,436	229	3.7%	114	305	552	971	\$29.59
31-2022	Physical Therapist Aides	722	719	-3	-0.4%	-2	35	63	96	\$15.61
31-9011	Massage Therapists	3,615	3,697	82	2.3%	41	240	248	529	\$24.57
31-9091	Dental Assistants	11,317	11,486	169	1.5%	84	634	928	1,646	\$22.33
31-9092	Medical Assistants	22,510	23,103	593	2.6%	296	1,070	1,832	3,198	\$18.40
31-9093	Medical Equipment Preparers	2,876	2,900	24	0.8%	12	162	222	396	\$20.45
31-9094	Medical Transcriptionists	859	767	-92	-10.7%	-46	51	88	93	\$17.38
31-9095	Pharmacy Aides	1,433	1,420	-13	-0.9%	-6	92	160	246	\$17.54
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	4,562	4,806	244	5.3%	122	291	612	1,025	\$14.77
31-9097	Phlebotomists	5,413	5,491	78	1.4%	39	268	425	732	\$18.32
31-9099	Healthcare Support Workers, All Other	1,395	1,419	24	1.7%	12	79	108	199	\$21.36
33-0000	Protective Service Occupations	115,864	115,518	-346	-0.3%	-173	5,810	6,983	12,620	\$23.55
33-1011	First-Line Supervisors of Correctional Officers	571	569	-2	-0.4%	-1	19	26	44	\$35.66
33-1012	First-Line Supervisors of Police and Detectives	3,593	3,624	31	0.9%	16	100	134	250	\$46.01
33-1021	First-Line Supervisors of Firefighting and Prevention Workers	2,816	2,833	17	0.6%	8	70	100	178	\$40.25
33-1091	First-line Supervisors of Security Workers	1,329	1,297	-32	-2.4%	-16	52	66	102	\$24.75
33-2011	Firefighters	18,511	18,640	129	0.7%	64	484	891	1,439	\$26.46
33-2021	Fire Inspectors and Investigators	464	467	3	0.6%	2	16	22	40	\$53.10
33-3011	Bailiffs	1,509	1,507	-2	-0.1%	-1	153	54	206	\$24.66
33-3012	Correctional Officers and Jailers	13,595	13,357	-238	-1.8%	-119	464	699	1,044	\$27.18
33-3021	Detectives and Criminal Investigators	2,263	2,285	22	1.0%	11	72	94	177	\$38.35
33-3031	Fish and Game Wardens	150	148	-2	-1.3%	-1	8	8	15	\$35.81
33-3051	Police and Sheriff's Patrol Officers	24,013	24,203	190	0.8%	95	704	1,126	1,925	\$35.72
33-9011	Animal Control Workers	322	325	3	0.9%	2	16	13	31	\$20.27
33-9021	Private Detectives and Investigators	1,697	1,685	-12	-0.7%	-6	70	84	148	\$25.57
33-9032	Security Guards	33,562	33,044	-518	-1.5%	-259	1,926	2,476	4,143	\$16.52
33-9091	Crossing Guards and Flaggers	1,915	1,909	-6	-0.3%	-3	326	99	422	\$18.18
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	4,077	4,176	99	2.4%	50	658	552	1,260	\$11.69
33-9094	School Bus Monitors	764	736	-28	-3.7%	-14	105	35	126	\$14.26
33-9099	Protective Service Workers, All Other	3,105	3,114	9	0.3%	4	496	416	916	\$18.81
35-0000	Food Preparation and Serving Related Occupations	463,856	462,249	-1,607	-0.3%	-804	39,698	47,808	86,702	\$13.79
35-1011	Chefs and Head Cooks	4,537	4,543	6	0.1%	3	176	358	537	\$23.07
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	46,717	46,840	123	0.3%	62	2,356	4,480	6,898	\$17.58
35-2011	Cooks, Fast Food	16,515	15,935	-580	-3.5%	-290	1,106	1,323	2,139	\$12.29
35-2012	Cooks, Institution and Cafeteria	23,676	23,556	-120	-0.5%	-60	1,610	1,926	3,476	\$16.88
35-2014	Cooks, Restaurant	48,257	49,862	1,605	3.3%	802	3,346	4,000	8,148	\$14.89
35-2015	Cooks, Short Order	12,141	11,859	-282	-2.3%	-141	818	978	1,655	\$13.13
35-2019	Cooks, All Other	502	498	-4	-0.8%	-2	34	41	73	\$17.36
35-2021	Food Preparation Workers	22,892	22,630	-262	-1.1%	-131	2,018	2,025	3,912	\$13.96
35-3011	Bartenders	22,457	22,496	39	0.2%	20	1,220	2,622	3,862	\$13.19
35-3023	Fast Food and Counter Workers	138,136	137,399	-737	-0.5%	-368	15,214	16,238	31,084	\$13.16
35-3031	Waiters and Waitresses	71,564	70,610	-954	-1.3%	-477	6,116	8,590	14,229	\$13.92
35-3041	Food Servers, Nonrestaurant	14,435	14,348	-87	-0.6%	-44	1,180	1,170	2,306	\$14.02
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	12,971	12,915	-56	-0.4%	-28	1,240	1,166	2,378	\$12.13
35-9021	Dishwashers	12,338	12,161	-177	-1.4%	-88	1,080	1,030	2,022	\$13.27
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	14,217	14,110	-107	-0.8%	-54	1,904	1,654	3,504	\$11.68
35-9099	Food Preparation and Serving Related Workers, All Other	2,079	2,073	-6	-0.3%	-3	253	174	424	\$12.41
37-0000	Building and Grounds Cleaning and Maintenance Occupations	163,563	164,948	1,385	0.8%	692	10,390	11,659	22,741	\$16.69

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SOC Code ¹	Occupational Title	Employment		Change in Employment		Annual Openings				Median Wage** May 2023
		2023 Annual	2025 Projected	2023 - 2025	Percent	Growth	Exits	Transfers	Total	
		37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	6,971	7,019	48	0.7%	24	363	
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	5,614	5,715	101	1.8%	50	225	350	625	\$24.66
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	75,765	76,611	846	1.1%	423	5,306	5,298	11,027	\$16.27
37-2012	Maids and Housekeeping Cleaners	32,919	32,245	-674	-2.0%	-337	2,426	2,188	4,277	\$13.73
37-3011	Landscaping and Groundskeeping Workers	38,086	39,036	950	2.5%	475	1,917	2,994	5,386	\$17.36
37-3013	Tree Trimmers and Pruners	1,300	1,333	33	2.5%	16	48	118	182	\$22.74
39-0000	Personal Care and Service Occupations	124,381	125,008	627	0.5%	314	8,564	12,826	21,704	\$14.22
39-1014	First-Line Supervisors of Entertainment And Recreation Workers, Except Gambling Services	4,171	4,260	89	2.1%	44	178	274	496	\$18.61
39-1022	First-Line Supervisors of Personal Service Workers	3,128	3,153	25	0.8%	12	132	204	348	\$20.46
39-2011	Animal Trainers	966	986	20	2.1%	10	44	92	146	\$27.60
39-2021	Animal Caretakers	11,286	11,298	12	0.1%	6	734	1,297	2,037	\$13.83
39-3011	Gambling Dealers	762	656	-106	-13.9%	-53	37	76	60	\$17.31
39-3031	Ushers, Lobby Attendants, and Ticket Takers	3,381	3,128	-253	-7.5%	-126	452	497	823	\$13.53
39-3091	Amusement and Recreation Attendants	10,628	11,111	483	4.5%	242	1,216	1,819	3,277	\$12.53
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	272	276	4	1.5%	2	30	46	78	\$11.45
39-4012	Crematory Operators	230	225	-5	-2.2%	-2	10	22	30	\$20.07
39-4021	Funeral Attendants	1,776	1,703	-73	-4.1%	-36	82	169	215	\$14.74
39-4031	Morticians, Undertakers, and Funeral Arrangers	1,352	1,300	-52	-3.8%	-26	63	92	129	\$23.82
39-5012	Hairdressers, Hairstylists, and Cosmetologists	22,910	22,963	53	0.2%	26	1,367	1,723	3,116	\$16.31
39-5092	Manicurists and Pedicurists	4,839	4,845	6	0.1%	3	239	322	564	\$17.47
39-5093	Shampooers	322	324	2	0.6%	1	20	32	53	\$12.87
39-5094	Skincare Specialists	1,711	1,720	9	0.5%	4	86	147	237	\$22.13
39-6011	Baggage Porters and Bellhops	145	143	-2	-1.4%	-1	8	14	21	\$11.35
39-6012	Concierges	362	364	2	0.6%	1	20	37	58	\$14.24
39-7010	Tour and Travel Guides	1,069	1,095	26	2.4%	13	100	128	241	\$14.18
39-9011	Childcare Workers	28,059	27,947	-112	-0.4%	-56	2,022	2,611	4,577	\$13.44
39-9031	Exercise Trainers and Group Fitness Instructors	8,904	9,231	327	3.7%	164	550	1,112	1,826	\$15.93
39-9032	Recreation Workers	9,928	10,034	106	1.1%	53	732	1,304	2,089	\$13.68
39-9041	Residential Advisors	4,386	4,498	112	2.6%	56	249	518	823	\$16.24
41-0000	Sales and Related Occupations	499,895	497,555	-2,340	-0.5%	-1,170	28,712	35,268	62,810	\$16.70
41-1011	First-Line Supervisors of Retail Sales Workers	46,455	46,029	-426	-0.9%	-213	1,802	2,728	4,317	\$20.27
41-1012	First-Line Supervisors of Non-Retail Sales Workers	11,867	11,784	-83	-0.7%	-42	400	552	910	\$39.59
41-2011	Cashiers	119,058	117,201	-1,857	-1.6%	-928	11,362	11,448	21,882	\$13.27
41-2012	Gambling Change Persons and Booth Cashiers	291	246	-45	-15.5%	-22	26	26	30	\$14.09
41-2021	Counter and Rental Clerks	8,102	8,078	-24	-0.3%	-12	458	478	924	\$16.58
41-2022	Parts Salespersons	9,393	9,473	80	0.9%	40	458	639	1,137	\$17.21
41-2031	Retail Salespersons	114,764	114,667	-97	-0.1%	-48	7,530	9,082	16,564	\$14.46
41-3011	Advertising Sales Agents	2,850	2,640	-210	-7.4%	-105	96	191	182	\$23.54
41-3021	Insurance Sales Agents	36,217	36,325	108	0.3%	54	1,356	1,506	2,916	\$28.84
41-3031	Securities, Commodities, and Financial Services Sales Agents	13,461	13,893	432	3.2%	216	379	620	1,215	\$28.46
41-3041	Travel Agents	1,378	1,248	-130	-9.4%	-65	84	79	98	\$18.68
41-3091	Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	35,745	35,888	143	0.4%	72	918	2,425	3,415	\$28.95
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	7,630	7,743	113	1.5%	56	256	420	732	\$42.79
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	66,679	67,388	709	1.1%	354	2,230	3,664	6,248	\$33.00
41-9011	Demonstrators and Product Promoters	1,511	1,491	-20	-1.3%	-10	166	106	262	\$16.59
41-9012	Models	147	153	6	4.1%	3	16	10	29	\$21.57
41-9021	Real Estate Brokers	1,346	1,362	16	1.2%	8	63	49	120	\$32.84
41-9022	Real Estate Sales Agents	11,113	11,205	92	0.8%	46	520	404	970	\$19.24
41-9031	Sales Engineers	1,829	1,851	22	1.2%	11	56	109	176	\$44.17

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SOC Code ¹	Occupational Title	Employment		Change in Employment		Annual Openings				Median Wage** May 2023
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		41-9041	Telemarketers	5,756	4,632	-1,124	-19.5%	-562	259	
41-9091	Door-to-Door Sales Workers, News and Street Vendors, and Related Workers	1,669	1,617	-52	-3.1%	-26	130	92	196	\$13.97
41-9099	Sales and Related Workers, All Other	2,634	2,641	7	0.3%	4	146	198	348	\$18.57
43-0000	Office and Administrative Support Occupations	689,827	679,397	-10,430	-2.5%	-5,215	36,230	40,848	71,863	\$20.43
43-1011	First-Line Supervisors of Office and Administrative Support Workers	47,272	46,657	-615	-1.3%	-308	1,966	2,518	4,176	\$29.39
43-2011	Switchboard Operators, Including Answering Service	1,260	1,120	-140	-11.1%	-70	53	64	47	\$17.00
43-2021	Telephone Operators	160	154	-6	-3.8%	-3	10	10	17	\$17.49
43-3011	Bill and Account Collectors	7,749	7,187	-562	-7.3%	-281	363	430	512	\$18.89
43-3021	Billing and Posting Clerks	19,209	19,230	21	0.1%	10	910	1,055	1,975	\$20.20
43-3031	Bookkeeping, Accounting, and Auditing Clerks	60,624	59,934	-690	-1.1%	-345	3,908	3,072	6,635	\$22.15
43-3041	Gambling Cage Workers	377	319	-58	-15.4%	-29	13	22	6	\$14.10
43-3051	Payroll and Timekeeping Clerks	5,411	5,247	-164	-3.0%	-82	258	276	452	\$24.07
43-3061	Procurement Clerks	1,967	1,959	-8	-0.4%	-4	60	124	180	\$21.88
43-3071	Tellers	15,766	15,526	-240	-1.5%	-120	703	887	1,470	\$17.88
43-3099	Financial Clerks, All Other	2,599	2,622	23	0.9%	12	96	165	273	\$22.58
43-4011	Brokerage Clerks	1,296	1,312	16	1.2%	8	68	80	156	\$26.51
43-4021	Correspondence Clerks	304	270	-34	-11.2%	-17	14	18	15	\$19.12
43-4031	Court, Municipal, and License Clerks	9,861	9,940	79	0.8%	40	512	471	1,023	\$19.91
43-4041	Credit Authorizers, Checkers, and Clerks	414	408	-6	-1.4%	-3	15	20	32	\$23.77
43-4051	Customer Service Representatives	103,996	101,406	-2,590	-2.5%	-1,295	5,740	8,054	12,499	\$19.17
43-4061	Eligibility Interviewers, Government Programs	3,945	3,985	40	1.0%	20	156	186	362	\$23.16
43-4071	File Clerks	2,444	2,379	-65	-2.7%	-32	148	146	262	\$18.99
43-4081	Hotel, Motel, and Resort Desk Clerks	6,033	5,624	-409	-6.8%	-204	368	559	723	\$13.45
43-4111	Interviewers, Except Eligibility and Loan	8,036	7,902	-134	-1.7%	-67	418	538	889	\$18.29
43-4121	Library Assistants, Clerical	2,870	2,822	-48	-1.7%	-24	282	212	470	\$16.15
43-4131	Loan Interviewers and Clerks	7,661	7,694	33	0.4%	16	259	372	647	\$22.53
43-4141	New Accounts Clerks	1,509	1,486	-23	-1.5%	-12	48	88	124	\$22.08
43-4151	Order Clerks	4,180	4,063	-117	-2.8%	-58	198	268	408	\$19.63
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	2,791	2,784	-7	-0.3%	-4	122	186	304	\$22.03
43-4171	Receptionists and Information Clerks	36,148	36,225	77	0.2%	38	2,290	2,515	4,843	\$16.38
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	1,343	1,351	8	0.6%	4	64	84	152	\$17.63
43-4199	Information and Record Clerks, All Other	2,784	2,825	41	1.5%	20	146	171	337	\$21.26
43-5011	Cargo and Freight Agents	2,523	2,515	-8	-0.3%	-4	100	153	249	\$21.74
43-5021	Couriers and Messengers	6,501	6,519	18	0.3%	9	313	380	702	\$16.60
43-5031	Public Safety Telecommunicators	4,700	4,724	24	0.5%	12	218	250	480	\$25.31
43-5032	Dispatchers, Except Police, Fire, and Ambulance	7,969	7,957	-12	-0.2%	-6	317	427	738	\$22.22
43-5041	Meter Readers, Utilities	733	702	-31	-4.2%	-16	30	32	46	\$24.27
43-5051	Postal Service Clerks	2,490	2,395	-95	-3.8%	-48	120	87	159	\$28.88
43-5052	Postal Service Mail Carriers	12,072	11,612	-460	-3.8%	-230	480	404	654	\$27.08
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	4,288	4,083	-205	-4.8%	-102	220	148	266	\$25.69
43-5061	Production, Planning, and Expediting Clerks	16,073	16,318	245	1.5%	122	630	1,010	1,762	\$24.80
43-5071	Shipping, Receiving, and Inventory Clerks	40,864	40,484	-380	-0.9%	-190	1,676	2,422	3,908	\$19.13
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	2,620	2,583	-37	-1.4%	-18	140	178	300	\$19.11
43-6011	Executive Secretaries and Executive Administrative Assistants	12,030	11,464	-566	-4.7%	-283	530	662	909	\$30.57
43-6012	Legal Secretaries and Administrative Assistants	4,897	4,617	-280	-5.7%	-140	275	261	396	\$22.55
43-6013	Medical Secretaries and Administrative Assistants	26,336	26,589	253	1.0%	126	1,404	1,340	2,870	\$18.40
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	66,419	64,954	-1,465	-2.2%	-732	3,824	3,457	6,549	\$20.36
43-9021	Data Entry Keyers	6,100	5,743	-357	-5.6%	-178	296	388	506	\$18.05
43-9022	Word Processors and Typists	532	494	-38	-7.1%	-19	40	28	49	\$21.10

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43-9031	Desktop Publishers	307	295	-12	-3.9%	-6	12	19	25	\$21.28
43-9041	Insurance Claims and Policy Processing Clerks	15,517	15,356	-161	-1.0%	-80	622	768	1,310	\$22.43
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	2,939	2,804	-135	-4.6%	-68	190	183	305	\$16.68
43-9061	Office Clerks, General	86,723	85,764	-959	-1.1%	-480	5,212	5,070	9,802	\$19.15
43-9071	Office Machine Operators, Except Computer	803	760	-43	-5.4%	-22	46	59	83	\$17.85
43-9081	Proofreaders and Copy Markers	270	260	-10	-3.7%	-5	20	16	31	\$20.82
43-9199	Office and Administrative Support Workers, All Other	7,961	7,824	-137	-1.7%	-68	321	504	757	\$15.67
45-0000	Farming, Fishing, and Forestry Occupations	16,470	16,469	-1	0.0%	0	918	1,490	2,408	\$19.44
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	690	697	7	1.0%	4	36	54	94	\$26.23
45-2041	Graders and Sorters, Agricultural Products	539	533	-6	-1.1%	-3	29	48	74	\$18.25
45-2091	Agricultural Equipment Operators	1,587	1,618	31	2.0%	16	91	145	252	\$23.59
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	10,118	10,082	-36	-0.4%	-18	572	914	1,468	\$16.79
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	1,470	1,467	-3	-0.2%	-2	83	133	214	\$15.19
45-2099	Agricultural Workers, All Other	253	254	1	0.4%	0	14	23	37	\$28.84
45-4021	Fallers	498	501	3	0.6%	2	25	46	73	\$24.27
45-4022	Logging Equipment Operators	374	374	0	0.0%	0	18	34	52	\$20.00
45-4023	Log Graders and Scalers	363	363	0	0.0%	0	18	34	52	\$18.56
47-0000	Construction and Extraction Occupations	198,549	202,903	4,354	2.2%	2,177	6,868	10,112	19,157	\$28.53
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	18,991	19,445	454	2.4%	227	639	873	1,739	\$36.30
47-2011	Boilermakers	532	538	6	1.1%	3	19	26	48	\$40.89
47-2021	Brickmasons and Blockmasons	3,392	3,501	109	3.2%	54	122	152	328	\$31.12
47-2031	Carpenters	21,879	22,030	151	0.7%	76	764	1,034	1,874	\$26.21
47-2041	Carpet Installers	746	724	-22	-2.9%	-11	24	33	46	\$24.68
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	853	858	5	0.6%	2	28	38	68	\$22.85
47-2044	Tile and Stone Setters	1,449	1,477	28	1.9%	14	47	66	127	\$23.14
47-2051	Cement Masons and Concrete Finishers	4,444	4,572	128	2.9%	64	114	222	400	\$29.19
47-2061	Construction Laborers	40,471	41,396	925	2.3%	462	1,414	2,066	3,942	\$23.40
47-2071	Paving, Surfacing, and Tamping Equipment Operators	1,121	1,161	40	3.6%	20	38	58	116	\$29.84
47-2073	Operating Engineers and Other Construction Equipment Operators	12,310	12,631	321	2.6%	160	414	628	1,202	\$29.04
47-2081	Drywall and Ceiling Tile Installers	1,558	1,558	0	0.0%	0	38	65	103	\$28.64
47-2082	Tapers	161	160	-1	-0.6%	0	4	6	10	\$31.79
47-2111	Electricians	26,997	27,892	895	3.3%	448	912	1,478	2,838	\$30.46
47-2121	Glaziers	1,320	1,376	56	4.2%	28	56	76	160	\$28.14
47-2131	Insulation Workers, Floor, Ceiling, and Wall	1,058	1,059	1	0.1%	0	31	50	81	\$29.55
47-2132	Insulation Workers, Mechanical	653	671	18	2.8%	9	20	31	60	\$33.11
47-2141	Painters, Construction and Maintenance	8,586	8,606	20	0.2%	10	292	367	669	\$24.35
47-2151	Pipelayers	709	715	6	0.8%	3	16	36	55	\$24.47
47-2152	Plumbers, Pipefitters, and Steamfitters	15,454	15,871	417	2.7%	208	494	840	1,542	\$31.27
47-2161	Plasterers and Stucco Masons	307	315	8	2.6%	4	10	12	26	\$31.13
47-2181	Roofers	4,952	5,151	199	4.0%	100	136	249	485	\$24.53
47-2211	Sheet Metal Workers	4,397	4,514	117	2.7%	58	164	240	462	\$29.54
47-2221	Structural Iron and Steel Workers	2,771	2,875	104	3.8%	52	72	168	292	\$34.97
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	473	477	4	0.8%	2	17	35	54	\$21.29
47-3012	Helpers--Carpenters	294	291	-3	-1.0%	-2	10	22	30	\$18.41
47-3013	Helpers--Electricians	1,387	1,413	26	1.9%	13	50	104	167	\$17.50
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	563	578	15	2.7%	8	20	42	70	\$16.68
47-3019	Helpers, Construction Trades, All Other	560	565	5	0.9%	2	20	42	64	\$19.13
47-4011	Construction and Building Inspectors	3,527	3,536	9	0.3%	4	230	168	402	\$32.42
47-4031	Fence Erectors	1,299	1,327	28	2.2%	14	36	73	123	\$25.44

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		47-4041	Hazardous Materials Removal Workers	1,904	1,915	11	0.6%	6	85	
47-4051	Highway Maintenance Workers	5,464	5,564	100	1.8%	50	246	244	540	\$22.17
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	1,167	1,192	25	2.1%	12	43	64	119	\$23.45
47-4090	Miscellaneous Construction and Related Workers	1,813	1,841	28	1.5%	14	66	98	178	\$21.45
47-5012	Rotary Drill Operators, Oil and Gas	131	135	4	3.1%	2	4	10	16	\$22.00
47-5013	Service Unit Operators, Oil and Gas	358	365	7	2.0%	4	11	26	41	\$21.81
47-5022	Excavating and Loading Machine and Dragline Operators, Surface Mining	877	897	20	2.3%	10	41	48	99	\$23.13
47-5023	Earth Drillers, Except Oil and Gas	511	525	14	2.7%	7	24	28	59	\$23.34
47-5041	Continuous Mining Machine Operators	227	233	6	2.6%	3	10	15	28	\$24.61
47-5071	Roustabouts, Oil and Gas	159	164	5	3.1%	2	5	12	19	\$26.08
49-0000	Installation, Maintenance, and Repair Occupations	224,122	227,118	2,996	1.3%	1,498	8,719	10,833	21,050	\$25.13
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	18,087	18,264	177	1.0%	88	700	789	1,577	\$35.17
49-2011	Computer, Automated Teller, and Office Machine Repairers	2,485	2,418	-67	-2.7%	-34	84	151	201	\$21.33
49-2021	Radio, Cellular, and Tower Equipment Installers and Repairers	460	469	9	2.0%	4	16	30	50	\$29.81
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	3,610	3,681	71	2.0%	36	130	236	402	\$28.89
49-2091	Avionics Technicians	351	356	5	1.4%	2	18	13	33	\$30.63
49-2092	Electric Motor, Power Tool, and Related Repairers	432	428	-4	-0.9%	-2	15	19	32	\$23.75
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	1,031	1,030	-1	-0.1%	0	34	52	86	\$28.77
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	515	500	-15	-2.9%	-8	17	26	35	\$46.66
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	236	225	-11	-4.7%	-6	8	12	14	\$22.99
49-2097	Audiovisual Equipment Installers and Repairers	736	728	-8	-1.1%	-4	20	52	68	\$20.96
49-2098	Security and Fire Alarm Systems Installers	2,345	2,353	8	0.3%	4	90	154	248	\$24.56
49-3011	Aircraft Mechanics and Service Technicians	3,670	3,761	91	2.5%	46	110	158	314	\$35.66
49-3021	Automotive Body and Related Repairers	6,819	6,818	-1	0.0%	0	292	290	582	\$22.72
49-3022	Automotive Glass Installers and Repairers	788	789	1	0.1%	0	20	40	60	\$23.65
49-3023	Automotive Service Technicians and Mechanics	27,366	27,567	201	0.7%	100	954	1,358	2,412	\$21.38
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	13,107	13,194	87	0.7%	44	470	612	1,126	\$26.71
49-3041	Farm Equipment Mechanics and Service Technicians	1,300	1,348	48	3.7%	24	43	66	133	\$23.21
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	5,454	5,570	116	2.1%	58	179	274	511	\$29.07
49-3043	Rail Car Repairers	183	184	1	0.5%	0	6	9	15	\$26.28
49-3051	Motorboat Mechanics and Service Technicians	490	501	11	2.2%	6	25	24	55	\$22.19
49-3052	Motorcycle Mechanics	462	461	-1	-0.2%	0	24	22	46	\$21.02
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	1,686	1,699	13	0.8%	6	86	80	172	\$20.99
49-3091	Bicycle Repairers	192	188	-4	-2.1%	-2	8	14	20	\$17.20
49-3092	Recreational Vehicle Service Technicians	333	340	7	2.1%	4	14	24	42	\$22.90
49-3093	Tire Repairers and Changers	3,340	3,364	24	0.7%	12	132	238	382	\$17.66
49-9011	Mechanical Door Repairers	1,182	1,220	38	3.2%	19	40	47	106	\$26.67
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	971	978	7	0.7%	4	33	38	75	\$35.88
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	14,863	15,361	498	3.6%	249	474	780	1,503	\$27.39
49-9031	Home Appliance Repairers	1,118	1,090	-28	-2.5%	-14	42	50	78	\$21.05
49-9041	Industrial Machinery Mechanics	15,778	16,516	738	4.7%	369	574	668	1,611	\$29.75
49-9043	Maintenance Workers, Machinery	1,981	2,036	55	2.8%	28	97	88	213	\$28.51
49-9044	Millwrights	2,468	2,534	66	2.7%	33	82	114	229	\$35.16
49-9051	Electrical Power-Line Installers and Repairers	3,643	3,601	-42	-1.2%	-21	98	174	251	\$42.39
49-9052	Telecommunications Line Installers and Repairers	3,539	3,630	91	2.6%	46	110	206	362	\$25.51
49-9062	Medical Equipment Repairers	3,960	4,068	108	2.7%	54	154	210	418	\$29.90
49-9063	Musical Instrument Repairers and Tuners	115	112	-3	-2.6%	-2	4	6	8	\$20.93
49-9064	Watch and Clock Repairers	152	135	-17	-11.2%	-8	6	8	6	\$16.31
49-9069	Precision Instrument and Equipment Repairers, All Other	271	271	0	0.0%	0	10	14	24	\$27.37

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SOC Code ¹	Occupational Title	Employment		Change in Employment		Annual Openings				Median Wage** May 2023
		2023 Annual	2025 Projected	2023 - 2025	Percent	Growth	Exits	Transfers	Total	
		49-9071	Maintenance and Repair Workers, General	68,762	69,423	661	1.0%	330	3,044	
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	1,861	1,845	-16	-0.9%	-8	96	107	195	\$16.49
49-9094	Locksmiths and Safe Repairers	486	470	-16	-3.3%	-8	28	24	44	\$22.44
49-9096	Riggers	125	130	5	4.0%	2	6	7	15	\$26.65
49-9098	Helpers--Installation, Maintenance, and Repair Workers	1,828	1,855	27	1.5%	14	112	92	218	\$18.27
49-9099	Installation, Maintenance, and Repair Workers, All Other	5,194	5,255	61	1.2%	30	201	290	521	\$21.20
51-0000	Production Occupations	494,879	495,930	1,051	0.2%	526	21,250	30,879	52,655	\$21.04
51-1011	First-Line Supervisors of Production and Operating Workers	33,219	33,626	407	1.2%	204	1,204	1,886	3,294	\$30.52
51-2021	Coil Winders, Tapers, and Finishers	535	522	-13	-2.4%	-6	26	30	50	\$22.82
51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	12,239	12,466	227	1.9%	114	613	690	1,417	\$18.74
51-2031	Engine and Other Machine Assemblers	7,773	7,701	-72	-0.9%	-36	456	494	914	\$30.48
51-2041	Structural Metal Fabricators and Fitters	1,630	1,628	-2	-0.1%	-1	61	106	166	\$23.81
51-2051	Fiberglass Laminators and Fabricators	370	363	-7	-1.9%	-4	16	23	35	\$17.36
51-2090	Miscellaneous Assemblers and Fabricators	96,305	95,471	-834	-0.9%	-417	4,068	6,059	9,710	\$19.31
51-3011	Bakers	8,253	8,396	143	1.7%	72	588	626	1,286	\$14.85
51-3021	Butchers and Meat Cutters	5,077	5,097	20	0.4%	10	252	348	610	\$16.86
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	3,558	3,489	-69	-1.9%	-34	174	240	380	\$17.60
51-3023	Slaughterers and Meat Packers	3,275	3,309	34	1.0%	17	163	225	405	\$17.53
51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	680	693	13	1.9%	6	35	56	97	\$17.64
51-3092	Food Batchmakers	7,981	8,171	190	2.4%	95	520	678	1,293	\$18.29
51-3093	Food Cooking Machine Operators and Tenders	830	852	22	2.7%	11	38	80	129	\$18.25
51-3099	Food Processing Workers, All Other	1,820	1,849	29	1.6%	14	80	106	200	\$16.94
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	4,708	4,748	40	0.8%	20	183	298	501	\$19.78
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	1,183	1,193	10	0.8%	5	46	75	126	\$22.40
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	1,586	1,582	-4	-0.3%	-2	62	100	160	\$23.08
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	18,115	18,124	9	0.0%	4	632	1,122	1,758	\$19.67
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	212	209	-3	-1.4%	-2	14	12	24	\$22.81
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	7,657	7,593	-64	-0.8%	-32	302	497	767	\$19.30
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,502	1,498	-4	-0.3%	-2	102	88	188	\$22.18
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	1,379	1,347	-32	-2.3%	-16	92	80	156	\$21.89
51-4041	Machinists	26,063	26,456	393	1.5%	196	1,048	1,493	2,737	\$24.06
51-4051	Metal-Refining Furnace Operators and Tenders	1,432	1,431	-1	-0.1%	0	44	97	141	\$23.72
51-4052	Pourers and Casters, Metal	387	383	-4	-1.0%	-2	12	26	36	\$21.79
51-4061	Model Makers, Metal and Plastic	336	325	-11	-3.3%	-6	10	18	22	\$31.23
51-4062	Patternmakers, Metal and Plastic	306	293	-13	-4.2%	-6	10	17	21	\$26.94
51-4071	Foundry Mold and Coremakers	927	877	-50	-5.4%	-25	28	51	54	\$23.44
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	14,313	14,327	14	0.1%	7	454	811	1,272	\$19.09
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	19,057	19,265	208	1.1%	104	756	1,088	1,948	\$18.68
51-4111	Tool and Die Makers	6,451	6,468	17	0.3%	8	325	338	671	\$29.42
51-4121	Welders, Cutters, Solderers, and Brazers	19,152	19,611	459	2.4%	230	588	1,284	2,102	\$22.93
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	1,929	1,955	26	1.3%	13	59	128	200	\$22.31
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	1,679	1,658	-21	-1.3%	-10	66	94	150	\$22.93
51-4193	Plating Machine Setters, Operators, and Tenders, Metal and Plastic	2,359	2,306	-53	-2.2%	-26	92	132	198	\$20.10
51-4199	Metal Workers and Plastic Workers, All Other	987	980	-7	-0.7%	-4	39	56	91	\$20.00
51-5111	Prepress Technicians and Workers	1,318	1,244	-74	-5.6%	-37	76	82	121	\$22.11
51-5112	Printing Press Operators	8,483	8,277	-206	-2.4%	-103	372	514	783	\$19.34
51-5113	Print Binding and Finishing Workers	1,375	1,313	-62	-4.5%	-31	60	64	93	\$17.63
51-6011	Laundry and Dry-Cleaning Workers	7,454	7,467	13	0.2%	6	567	440	1,013	\$13.60
51-6021	Pressers, Textile, Garment, and Related Materials	1,104	1,087	-17	-1.5%	-8	80	58	130	\$13.87

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SOC Code ¹	Occupational Title	Employment		Change in Employment		Annual Openings				Median Wage** May 2023
		2023 Annual	2025 Projected	2023 - 2025	Percent	Growth	Exits	Transfers	Total	
		51-6031	Sewing Machine Operators	4,474	4,461	-13	-0.3%	-6	290	
51-6041	Shoe and Leather Workers and Repairers	209	209	0	0.0%	0	13	12	25	\$14.20
51-6051	Sewers, Hand	770	752	-18	-2.3%	-9	66	38	95	\$16.77
51-6052	Tailors, Dressmakers, and Custom Sewers	1,379	1,344	-35	-2.5%	-18	118	67	167	\$17.57
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	295	297	2	0.7%	1	16	17	34	\$16.71
51-6063	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	250	253	3	1.2%	2	14	14	30	\$17.37
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	624	630	6	1.0%	3	34	34	71	\$27.79
51-6093	Upholsterers	1,036	1,041	5	0.5%	2	46	51	99	\$19.53
51-6099	Textile, Apparel, and Furnishings Workers, All Other	462	474	12	2.6%	6	26	26	58	\$17.64
51-7011	Cabinetmakers and Bench Carpenters	3,409	3,467	58	1.7%	29	142	188	359	\$22.48
51-7021	Furniture Finishers	596	593	-3	-0.5%	-2	35	32	65	\$19.88
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	2,321	2,317	-4	-0.2%	-2	102	156	256	\$17.87
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	2,588	2,623	35	1.4%	18	86	156	260	\$18.69
51-7099	Woodworkers, All Other	836	837	1	0.1%	0	47	48	95	\$21.25
51-8011	Nuclear Power Reactor Operators	140	133	-7	-5.0%	-4	4	7	7	\$59.27
51-8012	Power Distributors and Dispatchers	571	546	-25	-4.4%	-12	16	30	34	\$47.60
51-8013	Power Plant Operators	871	827	-44	-5.1%	-22	25	44	47	\$44.04
51-8021	Stationary Engineers and Boiler Operators	669	670	1	0.1%	0	30	38	68	\$31.27
51-8031	Water and Wastewater Treatment Plant and System Operators	4,878	4,833	-45	-0.9%	-22	202	250	430	\$26.25
51-8091	Chemical Plant and System Operators	375	372	-3	-0.8%	-2	10	24	32	\$32.09
51-8092	Gas Plant Operators	578	578	0	0.0%	0	14	38	52	\$26.80
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	984	996	12	1.2%	6	25	64	95	\$48.38
51-8099	Plant and System Operators, All Other	318	323	5	1.6%	2	8	21	31	\$24.69
51-9011	Chemical Equipment Operators and Tenders	7,772	7,652	-120	-1.5%	-60	243	472	655	\$24.25
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	1,602	1,629	27	1.7%	14	51	99	164	\$22.08
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	744	748	4	0.5%	2	27	49	78	\$18.06
51-9022	Grinding and Polishing Workers, Hand	859	835	-24	-2.8%	-12	30	56	74	\$18.81
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	5,431	5,502	71	1.3%	36	198	358	592	\$21.36
51-9031	Cutters and Trimmers, Hand	190	183	-7	-3.7%	-4	9	11	16	\$17.82
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	3,089	3,082	-7	-0.2%	-4	145	186	327	\$20.47
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	3,927	3,941	14	0.4%	7	164	224	395	\$19.16
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	1,197	1,216	19	1.6%	10	52	80	142	\$22.51
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	31,042	31,137	95	0.3%	48	1,304	2,242	3,594	\$21.66
51-9071	Jewelers and Precious Stone and Metal Workers	1,451	1,441	-10	-0.7%	-5	110	84	189	\$21.80
51-9081	Dental Laboratory Technicians	1,096	1,099	3	0.3%	2	50	77	129	\$22.55
51-9082	Medical Appliance Technicians	626	633	7	1.1%	4	28	44	76	\$22.13
51-9083	Ophthalmic Laboratory Technicians	589	595	6	1.0%	3	27	42	72	\$20.09
51-9111	Packaging and Filling Machine Operators and Tenders	18,931	19,281	350	1.8%	175	910	1,126	2,211	\$18.85
51-9123	Painting, Coating, and Decorating Workers	391	392	1	0.3%	0	12	23	35	\$21.61
51-9124	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	7,971	8,066	95	1.2%	48	241	474	763	\$21.33
51-9161	Computer Numerically Controlled Tool Operators	14,619	14,565	-54	-0.4%	-27	456	862	1,291	\$22.90
51-9162	Computer Numerically Controlled Tool Programmers	2,065	2,163	98	4.7%	49	66	125	240	\$29.85
51-9191	Adhesive Bonding Machine Operators and Tenders	825	820	-5	-0.6%	-2	27	44	69	\$22.60
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	869	871	2	0.2%	1	36	57	94	\$18.20
51-9193	Cooling and Freezing Equipment Operators and Tenders	748	755	7	0.9%	4	31	50	85	\$20.92
51-9194	Etchers and Engravers	243	240	-3	-1.2%	-2	25	13	36	\$16.75
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	3,333	3,348	15	0.5%	8	183	240	431	\$18.80
51-9196	Paper Goods Machine Setters, Operators, and Tenders	6,023	5,895	-128	-2.1%	-64	251	420	607	\$22.49
51-9197	Tire Builders	440	438	-2	-0.5%	-1	16	28	43	\$17.82

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51-9198	Helpers--Production Workers	5,556	5,497	-59	-1.1%	-30	372	489	831	\$17.87
51-9199	Production Workers, All Other	7,841	7,858	17	0.2%	8	326	514	848	\$17.88
53-0000	Transportation and Material Moving Occupations	558,383	567,215	8,832	1.6%	4,416	28,546	41,868	74,830	\$18.74
53-1047	First-Line Supervisors of Transportation & Material Moving Workers, Exc Aircraft Cargo Handling Supervisor	22,804	23,199	395	1.7%	198	778	1,506	2,482	\$28.51
53-2011	Airline Pilots, Copilots, and Flight Engineers	782	791	9	1.2%	4	27	61	92	\$224,100 *
53-2012	Commercial Pilots	4,616	4,784	168	3.6%	84	162	364	610	\$98,800 *
53-2021	Air Traffic Controllers	720	739	19	2.6%	10	18	44	72	\$72.68
53-2031	Flight Attendants	1,126	1,159	33	2.9%	16	74	76	166	\$65,040 *
53-3031	Driver/Sales Workers	33,960	34,419	459	1.4%	230	1,548	2,003	3,781	\$14.54
53-3032	Heavy and Tractor-Trailer Truck Drivers	95,981	97,203	1,222	1.3%	611	4,372	5,658	10,641	\$25.82
53-3033	Light Truck Drivers	38,093	39,380	1,287	3.4%	644	1,754	2,269	4,667	\$18.73
53-3051	Bus Drivers, School	5,549	5,394	-155	-2.8%	-78	578	250	750	\$21.95
53-3052	Bus Drivers, Transit and Intercity	5,304	5,382	78	1.5%	39	426	250	715	\$29.28
53-3053	Shuttle Drivers and Chauffeurs	8,061	8,305	244	3.0%	122	700	412	1,234	\$14.38
53-3054	Taxi Drivers	2,695	2,809	114	4.2%	57	140	130	327	\$15.77
53-3099	Motor Vehicle Operators, All Other	3,165	3,223	58	1.8%	29	275	190	494	\$15.38
53-4022	Railroad Brake, Signal, and Switch Operators and Locomotive Firers	183	184	1	0.5%	0	6	12	18	\$30.66
53-4031	Railroad Conductors and Yardmasters	169	172	3	1.8%	2	4	10	16	\$29.40
53-6011	Bridge and Lock Tenders	147	149	2	1.4%	1	6	10	17	\$29.83
53-6021	Parking Attendants	2,792	2,688	-104	-3.7%	-52	150	242	340	\$14.33
53-6031	Automotive and Watercraft Service Attendants	2,778	2,791	13	0.5%	6	146	258	410	\$16.61
53-6032	Aircraft Service Attendants	409	415	6	1.5%	3	22	38	63	\$17.86
53-6051	Transportation Inspectors	511	512	1	0.2%	0	18	28	46	\$36.50
53-6099	Transportation Workers, All Other	584	588	4	0.7%	2	23	39	64	\$17.28
53-7011	Conveyor Operators and Tenders	1,147	1,173	26	2.3%	13	44	70	127	\$18.61
53-7021	Crane and Tower Operators	1,904	1,953	49	2.6%	24	64	113	201	\$24.33
53-7051	Industrial Truck and Tractor Operators	41,200	42,235	1,035	2.5%	518	1,337	2,666	4,521	\$21.05
53-7061	Cleaners of Vehicles and Equipment	16,567	16,754	187	1.1%	94	903	1,287	2,284	\$16.33
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	108,784	109,594	810	0.7%	405	5,214	8,872	14,491	\$18.08
53-7063	Machine Feeders and Offbearers	2,680	2,747	67	2.5%	34	214	208	456	\$18.71
53-7064	Packers and Packagers, Hand	22,197	22,157	-40	-0.2%	-20	1,332	1,832	3,144	\$16.89
53-7065	Stockers and Order Fillers	124,136	126,837	2,701	2.2%	1,350	7,806	12,285	21,441	\$17.57
53-7071	Gas Compressor and Gas Pumping Station Operators	176	177	1	0.6%	0	6	12	18	\$39.74
53-7072	Pump Operators, Except Wellhead Pumpers	342	347	5	1.5%	2	12	22	36	\$37.56
53-7073	Wellhead Pumpers	385	403	18	4.7%	9	14	26	49	\$24.30
53-7081	Refuse and Recyclable Material Collectors	5,689	5,781	92	1.6%	46	262	438	746	\$22.66
53-7121	Tank Car, Truck, and Ship Loaders	883	892	9	1.0%	4	44	59	107	\$21.48
53-7199	Material Moving Workers, All Other	255	258	3	1.2%	2	12	17	31	\$19.85

¹ Occupational codes based on SOC 2010 coding structure. Detailed information - <http://www.bls.gov/soc/>

* Occupations with 100 or more workers.

** Wage estimates are based on Ohio's OEWS surveys.

*** Education, experience and training levels associated with occupations were based on national data provided by the BLS.

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, June 2024.

Wage is greater than or equal to \$115/hr or \$239,200/year.

* Statewide annual wage. Certain occupations report wages at the annual level - for elementary and secondary teachers this typically reflects the 9 1/2 month school year.

Ohio Occupational Employment* Projections Report, 2023 - 2025

SOC Code ¹	Occupational Title	Typical Education*** Required for Entry	Commonly Required Work Experience in Related Occupations	Typical On-The-Job Training to Obtain Competency	Median Wage** May 2023
00-0000	Total, All Occupations				\$22.45
11-0000	Management Occupations				\$48.38
11-1011	Chief Executives	Bachelor's degree	5 years or more	None	\$84.58
11-1021	General and Operations Managers	Bachelor's degree	5 years or more	None	\$45.14
11-1031	Legislators	Bachelor's degree	Less than 5 years	None	\$38,890 *
11-2021	Marketing Managers	Bachelor's degree	5 years or more	None	\$63.46
11-2022	Sales Managers	Bachelor's degree	Less than 5 years	None	\$64.64
11-2032	Public Relations Managers	Bachelor's degree	5 years or more	None	\$59.80
11-2033	Fundraising Managers	Bachelor's degree	5 years or more	None	\$47.28
11-3012	Administrative Services Managers	Bachelor's degree	Less than 5 years	None	\$44.39
11-3013	Facilities Managers	Bachelor's degree	Less than 5 years	None	\$45.82
11-3021	Computer and Information Systems Managers	Bachelor's degree	5 years or more	None	\$78.02
11-3031	Financial Managers	Bachelor's degree	5 years or more	None	\$63.27
11-3051	Industrial Production Managers	Bachelor's degree	5 years or more	None	\$48.06
11-3061	Purchasing Managers	Bachelor's degree	5 years or more	None	\$61.78
11-3071	Transportation, Storage, and Distribution Managers	High school diploma or equivalent	5 years or more	None	\$43.90
11-3121	Human Resources Managers	Bachelor's degree	5 years or more	None	\$60.18
11-3131	Training and Development Managers	Bachelor's degree	5 years or more	None	\$52.48
11-9013	Farmers, Ranchers, and Other Agricultural Managers	High school diploma or equivalent	5 years or more	None	\$23.62
11-9021	Construction Managers	Bachelor's degree	None	Moderate-term on-the-job training	\$44.74
11-9031	Education and Childcare Administrators, Preschool and Daycare	Bachelor's degree	Less than 5 years	None	\$21.77
11-9032	Education Administrators, Kindergarten through Secondary	Master's degree	5 years or more	None	\$98,710 *
11-9033	Education Administrators, Postsecondary	Master's degree	Less than 5 years	None	\$40.15
11-9039	Education Administrators, All Other	Bachelor's degree	Less than 5 years	None	\$33.63
11-9041	Architectural and Engineering Managers	Bachelor's degree	5 years or more	None	\$72.56
11-9051	Food Service Managers	High school diploma or equivalent	Less than 5 years	Short-term on-the-job training	\$27.05
11-9072	Entertainment And Recreation Managers, Except Gambling	Bachelor's degree	Less than 5 years	None	\$26.56
11-9081	Lodging Managers	High school diploma or equivalent	Less than 5 years	None	\$23.73
11-9111	Medical and Health Services Managers	Bachelor's degree	Less than 5 years	None	\$49.85
11-9121	Natural Sciences Managers	Bachelor's degree	5 years or more	None	\$62.61
11-9131	Postmasters and Mail Superintendents	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$42.68
11-9141	Property, Real Estate, and Community Association Managers	High school diploma or equivalent	Less than 5 years	Short-term on-the-job training	\$23.66
11-9151	Social and Community Service Managers	Bachelor's degree	Less than 5 years	None	\$33.26
11-9161	Emergency Management Directors	Bachelor's degree	5 years or more	None	\$41.22
11-9171	Funeral Home Managers	Associate's degree	Less than 5 years	None	\$43.94
11-9199	Managers, All Other	Bachelor's degree	Less than 5 years	None	\$60.23
13-0000	Business and Financial Operations Occupations				\$35.95
13-1020	Buyers and Purchasing Agents	Bachelor's degree	None	Moderate-term on-the-job training	\$31.78
13-1031	Claims Adjusters, Examiners, and Investigators	High school diploma or equivalent	None	Long-term on-the-job training	\$36.54
13-1032	Insurance Appraisers, Auto Damage	Postsecondary non-degree award	None	Moderate-term on-the-job training	\$42.03
13-1041	Compliance Officers	Bachelor's degree	None	Moderate-term on-the-job training	\$35.85
13-1051	Cost Estimators	Bachelor's degree	None	Moderate-term on-the-job training	\$33.75
13-1071	Human Resources Specialists	Bachelor's degree	None	None	\$30.11
13-1075	Labor Relations Specialists	Bachelor's degree	Less than 5 years	None	\$38.41
13-1081	Logisticians	Bachelor's degree	None	None	\$38.47
13-1082	Project Management Specialists	Bachelor's degree	None	None	\$41.89
13-1111	Management Analysts	Bachelor's degree	Less than 5 years	None	\$40.42

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SOC Code ¹	Occupational Title	Typical Education*** Required for Entry	Commonly Required Work Experience in Related Occupations	Typical On-The-Job Training to Obtain Competency	Median Wage** May 2023
13-1121	Meeting, Convention, and Event Planners	Bachelor's degree	None	None	\$24.06
13-1131	Fundraisers	Bachelor's degree	None	None	\$25.45
13-1141	Compensation, Benefits, and Job Analysis Specialists	Bachelor's degree	Less than 5 years	None	\$35.49
13-1151	Training and Development Specialists	Bachelor's degree	Less than 5 years	None	\$29.58
13-1161	Market Research Analysts and Marketing Specialists	Bachelor's degree	None	None	\$31.42
13-1199	Business Operations Specialists, All Other	Bachelor's degree	None	None	\$34.36
13-2011	Accountants and Auditors	Bachelor's degree	None	None	\$36.32
13-2020	Property Appraisers and Assessors	Bachelor's degree	None	Long-term on-the-job training	\$31.87
13-2031	Budget Analysts	Bachelor's degree	None	None	\$40.37
13-2041	Credit Analysts	Bachelor's degree	None	None	\$33.65
13-2051	Financial and Investment Analysts	Bachelor's degree	None	None	\$40.37
13-2052	Personal Financial Advisors	Bachelor's degree	None	Long-term on-the-job training	\$39.44
13-2053	Insurance Underwriters	Bachelor's degree	None	Moderate-term on-the-job training	\$37.11
13-2054	Financial Risk Specialists	Bachelor's degree	None	None	\$48.31
13-2061	Financial Examiners	Bachelor's degree	None	Long-term on-the-job training	\$32.03
13-2071	Credit Counselors	Bachelor's degree	None	Moderate-term on-the-job training	\$22.21
13-2072	Loan Officers	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training	\$30.44
13-2081	Tax Examiners and Collectors, and Revenue Agents	Bachelor's degree	None	Moderate-term on-the-job training	\$33.03
13-2082	Tax Preparers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$21.76
13-2099	Financial Specialists, All Other	Bachelor's degree	None	None	\$40.20
15-0000	Computer and Mathematical Occupations				\$44.29
15-1211	Computer Systems Analysts	Bachelor's degree	None	None	\$45.87
15-1212	Information Security Analysts	Bachelor's degree	Less than 5 years	None	\$51.18
15-1221	Computer and Information Research Scientists	Master's degree	None	None	\$59.14
15-1231	Computer Network Support Specialists	Associate's degree	None	Moderate-term on-the-job training	\$31.27
15-1232	Computer User Support Specialists	Some college, no degree	None	Moderate-term on-the-job training	\$24.75
15-1241	Computer Network Architects	Bachelor's degree	5 years or more	None	\$58.98
15-1242	Database Administrators	Bachelor's degree	None	None	\$45.44
15-1243	Database Architects	Bachelor's degree	Less than 5 years	None	\$61.17
15-1244	Network and Computer Systems Administrators	Bachelor's degree	None	None	\$46.47
15-1251	Computer Programmers	Bachelor's degree	None	None	\$37.84
15-1252	Software Developers	Bachelor's degree	None	None	\$51.71
15-1253	Software Quality Assurance Analysts and Testers	Bachelor's degree	None	None	\$39.69
15-1254	Web Developers	Bachelor's degree	None	None	\$39.98
15-1255	Web and Digital Interface Designers	Bachelor's degree	None	None	\$38.51
15-1299	Computer Occupations, All Other	Bachelor's degree	None	None	\$49.74
15-2011	Actuaries	Bachelor's degree	None	Long-term on-the-job training	\$53.96
15-2031	Operations Research Analysts	Bachelor's degree	None	None	\$42.75
15-2041	Statisticians	Master's degree	None	None	\$42.39
15-2051	Data Scientists	Bachelor's degree	None	None	\$46.67
17-0000	Architecture and Engineering Occupations				\$40.20
17-1011	Architects, Except Landscape and Naval	Bachelor's degree	None	Internship/residency	\$46.10
17-1012	Landscape Architects	Bachelor's degree	None	Internship/residency	\$28.56
17-1021	Cartographers and Photogrammetrists	Bachelor's degree	None	None	\$35.70
17-1022	Surveyors	Bachelor's degree	None	Internship/residency	\$29.05
17-2011	Aerospace Engineers	Bachelor's degree	None	None	\$62.85
17-2031	Bioengineers and Biomedical Engineers	Bachelor's degree	None	None	\$48.08

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SOC Code ¹	Occupational Title	Typical Education*** Required for Entry	Commonly Required Work Experience in Related Occupations	Typical On-The-Job Training to Obtain Competency	Median Wage** May 2023
17-2041	Chemical Engineers	Bachelor's degree	None	None	\$52.13
17-2051	Civil Engineers	Bachelor's degree	None	None	\$40.11
17-2061	Computer Hardware Engineers	Bachelor's degree	None	None	\$47.64
17-2071	Electrical Engineers	Bachelor's degree	None	None	\$48.19
17-2072	Electronics Engineers, Except Computer	Bachelor's degree	None	None	\$49.85
17-2081	Environmental Engineers	Bachelor's degree	None	None	\$59.54
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	Bachelor's degree	None	None	\$49.53
17-2112	Industrial Engineers	Bachelor's degree	None	None	\$46.40
17-2131	Materials Engineers	Bachelor's degree	None	None	\$48.86
17-2141	Mechanical Engineers	Bachelor's degree	None	None	\$44.41
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	Bachelor's degree	None	None	\$35.12
17-2161	Nuclear Engineers	Bachelor's degree	None	None	\$57.83
17-2171	Petroleum Engineers	Bachelor's degree	None	None	\$50.07
17-2199	Engineers, All Other	Bachelor's degree	None	None	\$51.15
17-3011	Architectural and Civil Drafters	Associate's degree	None	None	\$28.90
17-3012	Electrical and Electronics Drafters	Associate's degree	None	None	\$38.31
17-3013	Mechanical Drafters	Associate's degree	None	None	\$30.44
17-3019	Drafters, All Other	Associate's degree	None	None	\$24.71
17-3021	Aerospace Engineering and Operations Technologists and Technicians	Associate's degree	None	None	\$37.25
17-3022	Civil Engineering Technologists and Technicians	Associate's degree	None	None	\$29.91
17-3023	Electrical and Electronics Engineering Technologists and Technicians	Associate's degree	None	None	\$35.38
17-3024	Electro-Mechanical and Mechatronics Technologists and Technicians	Associate's degree	None	None	\$28.98
17-3025	Environmental Engineering Technologists and Technicians	Associate's degree	None	None	\$24.15
17-3026	Industrial Engineering Technologists and Technicians	Associate's degree	None	None	\$28.78
17-3027	Mechanical Engineering Technologists and Technicians	Associate's degree	None	None	\$30.06
17-3028	Calibration Technologists and Technicians	Associate's degree	None	None	\$28.10
17-3029	Engineering Technologists and Technicians, Except Drafters, All Other	Associate's degree	None	None	\$29.23
17-3031	Surveying and Mapping Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.50
19-0000	Life, Physical, and Social Science Occupations				\$34.19
19-1012	Food Scientists and Technologists	Bachelor's degree	None	None	\$26.96
19-1013	Soil and Plant Scientists	Bachelor's degree	None	None	\$30.14
19-1021	Biochemists and Biophysicists	Doctoral or professional degree	None	None	\$38.77
19-1022	Microbiologists	Bachelor's degree	None	None	\$38.71
19-1023	Zoologists and Wildlife Biologists	Bachelor's degree	None	None	\$29.30
19-1029	Biological Scientists, All Other	Bachelor's degree	None	None	\$41.68
19-1031	Conservation Scientists	Bachelor's degree	None	None	\$28.12
19-1032	Foresters	Bachelor's degree	None	None	\$37.59
19-1041	Epidemiologists	Master's degree	None	None	\$32.60
19-2012	Physicists	Doctoral or professional degree	None	None	\$65.81
19-2031	Chemists	Bachelor's degree	None	None	\$39.46
19-2032	Materials Scientists	Bachelor's degree	None	None	\$45.25
19-2041	Environmental Scientists and Specialists, Including Health	Bachelor's degree	None	None	\$38.35
19-2042	Geoscientists, Except Hydrologists and Geographers	Bachelor's degree	None	None	\$37.32
19-2043	Hydrologists	Bachelor's degree	None	None	\$43.99
19-2099	Physical Scientists, All Other	Bachelor's degree	None	None	\$51.18
19-3011	Economists	Master's degree	None	None	\$52.08
19-3022	Survey Researchers	Master's degree	None	None	\$23.54

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SOC Code ¹	Occupational Title	Typical Education*** Required for Entry	Commonly Required Work Experience in Related Occupations	Typical On-The-Job Training to Obtain Competency	Median Wage** May 2023
19-3033	Clinical and Counseling Psychologists	Doctoral or professional degree	None	Internship/residency	\$50.81
19-3034	School Psychologists	Master's degree	None	Internship/residency	\$45.27
19-3039	Psychologists, All Other	Master's degree	None	Internship/residency	\$56.93
19-3051	Urban and Regional Planners	Master's degree	None	None	\$34.33
19-3099	Social Scientists and Related Workers, All Other	Bachelor's degree	None	None	\$44.24
19-4012	Agricultural Technicians	Associate's degree	None	Moderate-term on-the-job training	\$21.22
19-4013	Food Science Technicians	Associate's degree	None	Moderate-term on-the-job training	\$26.17
19-4021	Biological Technicians	Bachelor's degree	None	None	\$27.03
19-4031	Chemical Technicians	Associate's degree	None	Moderate-term on-the-job training	\$25.30
19-4042	Environmental Science and Protection Technicians, Including Health	Associate's degree	None	None	\$23.31
19-4043	Geological Technicians, Except Hydrologic Technicians	Associate's degree	None	Moderate-term on-the-job training	\$33.71
19-4061	Social Science Research Assistants	Bachelor's degree	None	None	\$24.00
19-4071	Forest and Conservation Technicians	Associate's degree	None	None	\$20.42
19-4092	Forensic Science Technicians	Bachelor's degree	None	Moderate-term on-the-job training	\$31.28
19-4099	Life, Physical, and Social Science Technicians, All Other	Associate's degree	None	None	\$21.38
19-5011	Occupational Health and Safety Specialists	Bachelor's degree	None	None	\$37.00
19-5012	Occupational Health and Safety Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$29.52
21-0000	Community and Social Service Occupations				\$24.08
21-1012	Educational, Guidance, and Career Counselors and Advisors	Master's degree	None	None	\$30.29
21-1013	Marriage and Family Therapists	Master's degree	None	Internship/residency	\$27.66
21-1015	Rehabilitation Counselors	Master's degree	None	None	\$21.49
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	Bachelor's degree	None	None	\$24.32
21-1019	Counselors, All Other	Master's degree	None	None	\$21.76
21-1021	Child, Family, and School Social Workers	Bachelor's degree	None	None	\$23.20
21-1022	Healthcare Social Workers	Master's degree	None	Internship/residency	\$29.58
21-1023	Mental Health and Substance Abuse Social Workers	Master's degree	None	Internship/residency	\$21.71
21-1029	Social Workers, All Other	Bachelor's degree	None	None	\$28.87
21-1091	Health Education Specialists	Bachelor's degree	None	None	\$29.90
21-1092	Probation Officers and Correctional Treatment Specialists	Bachelor's degree	None	Moderate-term on-the-job training	\$28.99
21-1093	Social and Human Service Assistants	High school diploma or equivalent	None	Short-term on-the-job training	\$18.58
21-1094	Community Health Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$20.00
21-1099	Community and Social Service Specialists, All Other	Bachelor's degree	None	None	\$23.07
21-2011	Clergy	Bachelor's degree	None	Moderate-term on-the-job training	\$26.68
21-2021	Directors, Religious Activities and Education	Bachelor's degree	Less than 5 years	None	\$21.63
21-2099	Religious Workers, All Other	Bachelor's degree	None	None	\$14.27
23-0000	Legal Occupations				\$42.41
23-1011	Lawyers	Doctoral or professional degree	None	None	\$56.49
23-1012	Judicial Law Clerks	Doctoral or professional degree	None	None	\$26.60
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	Doctoral or professional degree	5 years or more	Short-term on-the-job training	\$35.00
23-1022	Arbitrators, Mediators, and Conciliators	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training	\$38.35
23-1023	Judges, Magistrate Judges, and Magistrates	Doctoral or professional degree	5 years or more	Short-term on-the-job training	\$67.15
23-2011	Paralegals and Legal Assistants	Associate's degree	None	None	\$25.64
23-2093	Title Examiners, Abstractors, and Searchers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.90
23-2099	Legal Support Workers, All Other	Associate's degree	None	None	\$29.43
25-0000	Educational Instruction and Library Occupations				\$29.88
25-1011	Business Teachers, Postsecondary	Doctoral or professional degree	None	None	\$81,500 *
25-1021	Computer Science Teachers, Postsecondary	Doctoral or professional degree	None	None	\$77,840 *

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25-1022	Mathematical Science Teachers, Postsecondary	Doctoral or professional degree	None	None	\$77,320 +
25-1032	Engineering Teachers, Postsecondary	Doctoral or professional degree	None	None	\$105,590 +
25-1042	Biological Science Teachers, Postsecondary	Doctoral or professional degree	None	None	\$77,950 +
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	Doctoral or professional degree	None	None	\$82,050 +
25-1052	Chemistry Teachers, Postsecondary	Doctoral or professional degree	None	None	\$77,210 +
25-1053	Environmental Science Teachers, Postsecondary	Doctoral or professional degree	None	None	\$82,870 +
25-1054	Physics Teachers, Postsecondary	Doctoral or professional degree	None	None	\$92,440 +
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	Doctoral or professional degree	None	None	\$73,430 +
25-1063	Economics Teachers, Postsecondary	Doctoral or professional degree	None	None	\$102,500 +
25-1064	Geography Teachers, Postsecondary	Doctoral or professional degree	None	None	\$80,500 +
25-1065	Political Science Teachers, Postsecondary	Doctoral or professional degree	None	None	\$78,520 +
25-1066	Psychology Teachers, Postsecondary	Doctoral or professional degree	None	None	\$80,200 +
25-1067	Sociology Teachers, Postsecondary	Doctoral or professional degree	None	None	\$77,660 +
25-1069	Social Sciences Teachers, Postsecondary, All Other	Doctoral or professional degree	None	None	\$66,730 +
25-1071	Health Specialties Teachers, Postsecondary	Doctoral or professional degree	Less than 5 years	None	\$105,410 +
25-1072	Nursing Instructors and Teachers, Postsecondary	Doctoral or professional degree	Less than 5 years	None	\$76,640 +
25-1081	Education Teachers, Postsecondary	Doctoral or professional degree	Less than 5 years	None	\$66,320 +
25-1082	Library Science Teachers, Postsecondary	Doctoral or professional degree	None	None	\$80,430 +
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	Doctoral or professional degree	None	None	\$62,670 +
25-1112	Law Teachers, Postsecondary	Doctoral or professional degree	Less than 5 years	None	\$114,380 +
25-1113	Social Work Teachers, Postsecondary	Doctoral or professional degree	None	None	\$64,400 +
25-1121	Art, Drama, and Music Teachers, Postsecondary	Master's degree	None	None	\$74,040 +
25-1122	Communications Teachers, Postsecondary	Doctoral or professional degree	None	None	\$67,540 +
25-1123	English Language and Literature Teachers, Postsecondary	Doctoral or professional degree	None	None	\$66,140 +
25-1124	Foreign Language and Literature Teachers, Postsecondary	Doctoral or professional degree	None	None	\$65,590 +
25-1125	History Teachers, Postsecondary	Doctoral or professional degree	None	None	\$80,100 +
25-1126	Philosophy and Religion Teachers, Postsecondary	Doctoral or professional degree	None	None	\$78,220 +
25-1192	Family and Consumer Sciences Teachers, Postsecondary	Doctoral or professional degree	None	None	\$60,830 +
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	Doctoral or professional degree	None	None	\$63,880 +
25-1194	Career/Technical Education Teachers, Postsecondary	Bachelor's degree	Less than 5 years	None	\$30.97
25-1199	Postsecondary Teachers, All Other	Doctoral or professional degree	None	None	\$59,510 +
25-2011	Preschool Teachers, Except Special Education	Associate's degree	None	None	\$16.24
25-2012	Kindergarten Teachers, Except Special Education	Bachelor's degree	None	None	\$63,680 +
25-2021	Elementary School Teachers, Except Special Education	Bachelor's degree	None	None	\$74,530 +
25-2022	Middle School Teachers, Except Special and Career/Technical Education	Bachelor's degree	None	None	\$75,420 +
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's degree	None	None	\$78,010 +
25-2032	Career/Technical Education Teachers, Secondary School	Bachelor's degree	Less than 5 years	None	\$78,500 +
25-2051	Special Education Teachers, Preschool	Bachelor's degree	None	None	\$66,770 +
25-2052	Special Education Teachers, Kindergarten and Elementary School	Bachelor's degree	None	None	\$71,100 +
25-2057	Special Education Teachers, Middle School	Bachelor's degree	None	None	\$65,910 +
25-2058	Special Education Teachers, Secondary School	Bachelor's degree	None	None	\$74,850 +
25-3021	Self-Enrichment Teachers	High school diploma or equivalent	Less than 5 years	None	\$17.09
25-3031	Substitute Teachers, Short-Term	Bachelor's degree	None	None	\$17.38
25-3041	Tutors	Some college, no degree	None	None	\$20.92
25-3099	Teachers and Instructors, All Other	Bachelor's degree	None	None	\$51,090 +
25-4011	Archivists	Master's degree	None	None	\$27.84
25-4012	Curators	Master's degree	None	None	\$27.61

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25-4013	Museum Technicians and Conservators	Bachelor's degree	None	None	\$22.24
25-4022	Librarians and Media Collections Specialists	Master's degree	None	None	\$28.31
25-4031	Library Technicians	Postsecondary non-degree award	None	None	\$17.72
25-9031	Instructional Coordinators	Master's degree	5 years or more	None	\$36.23
25-9044	Teaching Assistants, Postsecondary	Bachelor's degree	None	None	\$50,530 ⁺
25-9045	Teaching Assistants, Except Postsecondary	Some college, no degree	None	None	\$35,430 ⁺
25-9099	Educational Instruction and Library Workers, All Other	Bachelor's degree	None	None	\$22.50
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations				\$22.17
27-1011	Art Directors	Bachelor's degree	5 years or more	None	\$44.09
27-1012	Craft Artists	No formal educational credential	None	Long-term on-the-job training	\$18.35
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	Bachelor's degree	None	Long-term on-the-job training	\$21.68
27-1019	Artists and Related Workers, All Other	No formal educational credential	None	Long-term on-the-job training	\$24.65
27-1021	Commercial and Industrial Designers	Bachelor's degree	None	None	\$31.58
27-1022	Fashion Designers	Bachelor's degree	None	None	\$38.22
27-1023	Floral Designers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$13.84
27-1024	Graphic Designers	Bachelor's degree	None	None	\$24.26
27-1025	Interior Designers	Bachelor's degree	None	None	\$24.78
27-1026	Merchandise Displayers and Window Trimmers	High school diploma or equivalent	None	Short-term on-the-job training	\$16.92
27-1027	Set and Exhibit Designers	Bachelor's degree	None	None	\$25.30
27-2011	Actors	Some college, no degree	None	Long-term on-the-job training	\$10.36
27-2012	Producers and Directors	Bachelor's degree	Less than 5 years	None	\$28.00
27-2022	Coaches and Scouts	Bachelor's degree	None	None	\$37,060 ⁺
27-2023	Umpires, Referees, and Other Sports Officials	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23,130 ⁺
27-2041	Music Directors and Composers	Bachelor's degree	Less than 5 years	None	\$28.90
27-2042	Musicians and Singers	No formal educational credential	None	Long-term on-the-job training	\$34.37
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	No formal educational credential	None	Short-term on-the-job training	\$14.67
27-3011	Broadcast Announcers and Radio Disc Jockeys	Bachelor's degree	None	None	\$18.52
27-3023	News Analysts, Reporters, and Journalists	Bachelor's degree	None	None	\$17.94
27-3031	Public Relations Specialists	Bachelor's degree	None	None	\$32.88
27-3041	Editors	Bachelor's degree	Less than 5 years	None	\$29.70
27-3042	Technical Writers	Bachelor's degree	Less than 5 years	Short-term on-the-job training	\$30.28
27-3043	Writers and Authors	Bachelor's degree	None	Long-term on-the-job training	\$26.95
27-3091	Interpreters and Translators	Bachelor's degree	None	None	\$26.02
27-3092	Court Reporters and Simultaneous Captioners	Postsecondary non-degree award	None	Short-term on-the-job training	\$27.21
27-3099	Media and Communication Workers, All Other	High school diploma or equivalent	None	Short-term on-the-job training	\$18.96
27-4011	Audio and Video Technicians	Postsecondary non-degree award	None	Short-term on-the-job training	\$23.64
27-4021	Photographers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.31
27-4031	Camera Operators, Television, Video, and Film	Bachelor's degree	None	None	\$23.48
27-4032	Film and Video Editors	Bachelor's degree	None	None	\$23.02
27-4099	Media and Communication Equipment Workers, All Other	High school diploma or equivalent	None	Short-term on-the-job training	\$30.04
29-0000	Healthcare Practitioners and Technical Occupations				\$37.26
29-1011	Chiropractors	Doctoral or professional degree	None	None	\$39.24
29-1021	Dentists, General	Doctoral or professional degree	None	None	\$80.28
29-1029	Dentists, All Other Specialists	Doctoral or professional degree	None	Internship/residency	\$97.56
29-1031	Dietitians and Nutritionists	Bachelor's degree	None	Internship/residency	\$30.87
29-1041	Optometrists	Doctoral or professional degree	None	None	\$60.89
29-1051	Pharmacists	Doctoral or professional degree	None	None	\$63.81

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29-1071	Physician Assistants	Master's degree	None	None	\$58.74
29-1081	Podiatrists	Doctoral or professional degree	None	Internship/residency	\$57.66
29-1122	Occupational Therapists	Master's degree	None	None	\$43.52
29-1123	Physical Therapists	Doctoral or professional degree	None	None	\$47.33
29-1124	Radiation Therapists	Associate's degree	None	None	\$45.03
29-1125	Recreational Therapists	Bachelor's degree	None	None	\$27.59
29-1126	Respiratory Therapists	Associate's degree	None	None	\$37.11
29-1127	Speech-Language Pathologists	Master's degree	None	Internship/residency	\$41.61
29-1128	Exercise Physiologists	Bachelor's degree	None	None	\$25.06
29-1131	Veterinarians	Doctoral or professional degree	None	None	\$50.27
29-1141	Registered Nurses	Bachelor's degree	None	None	\$38.44
29-1151	Nurse Anesthetists	Master's degree	None	None	\$94.47
29-1161	Nurse Midwives	Master's degree	None	None	\$55.76
29-1171	Nurse Practitioners	Master's degree	None	None	\$59.46
29-1181	Audiologists	Doctoral or professional degree	None	None	\$39.59
29-1211	Anesthesiologists	Doctoral or professional degree	None	Internship/residency	#
29-1212	Cardiologists	Doctoral or professional degree	None	Internship/residency	#
29-1213	Dermatologists	Doctoral or professional degree	None	Internship/residency	#
29-1214	Emergency Medicine Physicians	Doctoral or professional degree	None	Internship/residency	#
29-1215	Family Medicine Physicians	Doctoral or professional degree	None	Internship/residency	\$35.77
29-1216	General Internal Medicine Physicians	Doctoral or professional degree	None	Internship/residency	\$96.15
29-1217	Neurologists	Doctoral or professional degree	None	Internship/residency	#
29-1218	Obstetricians and Gynecologists	Doctoral or professional degree	None	Internship/residency	\$96.15
29-1221	Pediatricians, General	Doctoral or professional degree	None	Internship/residency	\$82.63
29-1222	Physicians, Pathologists	Doctoral or professional degree	None	Internship/residency	#
29-1223	Psychiatrists	Doctoral or professional degree	None	Internship/residency	\$106.47
29-1229	Physicians, All Other	Doctoral or professional degree	None	Internship/residency	#
29-1241	Ophthalmologists, Except Pediatric	Doctoral or professional degree	None	Internship/residency	#
29-1242	Orthopedic Surgeons, Except Pediatric	Doctoral or professional degree	None	Internship/residency	#
29-1249	Surgeons, All Other	Doctoral or professional degree	None	Internship/residency	#
29-1292	Dental Hygienists	Associate's degree	None	None	\$38.31
29-1299	Healthcare Diagnosing or Treating Practitioners, All Other	Master's degree	None	None	\$41.67
29-2010	Clinical Laboratory Technologists and Technicians	Bachelor's degree	None	None	\$29.15
29-2031	Cardiovascular Technologists and Technicians	Associate's degree	None	None	\$35.70
29-2032	Diagnostic Medical Sonographers	Associate's degree	None	None	\$38.13
29-2033	Nuclear Medicine Technologists	Associate's degree	None	None	\$42.17
29-2034	Radiologic Technologists and Technicians	Associate's degree	None	None	\$32.48
29-2035	Magnetic Resonance Imaging Technologists	Associate's degree	Less than 5 years	None	\$38.11
29-2042	Emergency Medical Technicians	Postsecondary non-degree award	None	None	\$18.41
29-2043	Paramedics	Postsecondary non-degree award	Less than 5 years	None	\$23.14
29-2051	Dietetic Technicians	Associate's degree	None	None	\$17.25
29-2052	Pharmacy Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.41
29-2053	Psychiatric Technicians	Postsecondary non-degree award	Less than 5 years	Short-term on-the-job training	\$17.28
29-2055	Surgical Technologists	Postsecondary non-degree award	None	None	\$28.33
29-2056	Veterinary Technologists and Technicians	Associate's degree	None	None	\$18.18
29-2057	Ophthalmic Medical Technicians	Postsecondary non-degree award	None	None	\$18.86
29-2061	Licensed Practical and Licensed Vocational Nurses	Postsecondary non-degree award	None	None	\$27.95

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29-2072	Medical Records Specialists	Postsecondary non-degree award	None	None	\$23.08
29-2081	Opticians, Dispensing	High school diploma or equivalent	None	Long-term on-the-job training	\$22.54
29-2091	Orthotists and Prosthetists	Master's degree	None	Internship/residency	\$37.61
29-2092	Hearing Aid Specialists	High school diploma or equivalent	None	Moderate-term on-the-job training	\$28.30
29-2099	Health Technologists and Technicians, All Other	Postsecondary non-degree award	None	None	\$21.19
29-9021	Health Information Technologists and Medical Registrars	Associate's degree	None	None	\$32.43
29-9091	Athletic Trainers	Master's degree	None	None	\$57,780 *
29-9093	Surgical Assistants	Postsecondary non-degree award	None	None	\$31.28
29-9099	Healthcare Practitioners and Technical Workers, All Other	Postsecondary non-degree award	None	None	\$21.40
31-0000	Healthcare Support Occupations				\$17.07
31-1120	Home Health and Personal Care Aides	High school diploma or equivalent	None	Short-term on-the-job training	\$14.08
31-1131	Nursing Assistants	Postsecondary non-degree award	None	None	\$18.28
31-1132	Orderlies	High school diploma or equivalent	None	Short-term on-the-job training	\$17.37
31-1133	Psychiatric Aides	High school diploma or equivalent	None	Short-term on-the-job training	\$17.76
31-2011	Occupational Therapy Assistants	Associate's degree	None	None	\$30.04
31-2021	Physical Therapist Assistants	Associate's degree	None	None	\$29.59
31-2022	Physical Therapist Aides	High school diploma or equivalent	None	Short-term on-the-job training	\$15.61
31-9011	Massage Therapists	Postsecondary non-degree award	None	None	\$24.57
31-9091	Dental Assistants	Postsecondary non-degree award	None	None	\$22.33
31-9092	Medical Assistants	Postsecondary non-degree award	None	None	\$18.40
31-9093	Medical Equipment Preparers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$20.45
31-9094	Medical Transcriptionists	Postsecondary non-degree award	None	None	\$17.38
31-9095	Pharmacy Aides	High school diploma or equivalent	None	Short-term on-the-job training	\$17.54
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	High school diploma or equivalent	None	Short-term on-the-job training	\$14.77
31-9097	Phlebotomists	Postsecondary non-degree award	None	None	\$18.32
31-9099	Healthcare Support Workers, All Other	High school diploma or equivalent	None	None	\$21.36
33-0000	Protective Service Occupations				\$23.55
33-1011	First-Line Supervisors of Correctional Officers	High school diploma or equivalent	Less than 5 years	None	\$35.66
33-1012	First-Line Supervisors of Police and Detectives	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$46.01
33-1021	First-Line Supervisors of Firefighting and Prevention Workers	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training	\$40.25
33-1091	First-line Supervisors of Security Workers	High school diploma or equivalent	Less than 5 years	None	\$24.75
33-2011	Firefighters	Postsecondary non-degree award	None	Long-term on-the-job training	\$26.46
33-2021	Fire Inspectors and Investigators	Postsecondary non-degree award	5 years or more	Moderate-term on-the-job training	\$53.10
33-3011	Bailiffs	High school diploma or equivalent	None	Moderate-term on-the-job training	\$24.66
33-3012	Correctional Officers and Jailers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$27.18
33-3021	Detectives and Criminal Investigators	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$38.35
33-3031	Fish and Game Wardens	Bachelor's degree	None	Moderate-term on-the-job training	\$35.81
33-3051	Police and Sheriff's Patrol Officers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$35.72
33-9011	Animal Control Workers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$20.27
33-9021	Private Detectives and Investigators	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$25.57
33-9032	Security Guards	High school diploma or equivalent	None	Short-term on-the-job training	\$16.52
33-9091	Crossing Guards and Flaggers	No formal educational credential	None	Short-term on-the-job training	\$18.18
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	No formal educational credential	None	Short-term on-the-job training	\$11.69
33-9094	School Bus Monitors	High school diploma or equivalent	None	Short-term on-the-job training	\$14.26
33-9099	Protective Service Workers, All Other	High school diploma or equivalent	None	Short-term on-the-job training	\$18.81
35-0000	Food Preparation and Serving Related Occupations				\$13.79
35-1011	Chefs and Head Cooks	High school diploma or equivalent	5 years or more	None	\$23.07

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35-1012	First-Line Supervisors of Food Preparation and Serving Workers	High school diploma or equivalent	Less than 5 years	None	\$17.58
35-2011	Cooks, Fast Food	No formal educational credential	None	Short-term on-the-job training	\$12.29
35-2012	Cooks, Institution and Cafeteria	No formal educational credential	None	Short-term on-the-job training	\$16.88
35-2014	Cooks, Restaurant	No formal educational credential	Less than 5 years	Moderate-term on-the-job training	\$14.89
35-2015	Cooks, Short Order	No formal educational credential	None	Short-term on-the-job training	\$13.13
35-2019	Cooks, All Other	No formal educational credential	None	Moderate-term on-the-job training	\$17.36
35-2021	Food Preparation Workers	No formal educational credential	None	Short-term on-the-job training	\$13.96
35-3011	Bartenders	No formal educational credential	None	Short-term on-the-job training	\$13.19
35-3023	Fast Food and Counter Workers	No formal educational credential	None	Short-term on-the-job training	\$13.16
35-3031	Waiters and Waitresses	No formal educational credential	None	Short-term on-the-job training	\$13.92
35-3041	Food Servers, Nonrestaurant	No formal educational credential	None	Short-term on-the-job training	\$14.02
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	No formal educational credential	None	Short-term on-the-job training	\$12.13
35-9021	Dishwashers	No formal educational credential	None	Short-term on-the-job training	\$13.27
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	No formal educational credential	None	Short-term on-the-job training	\$11.68
35-9099	Food Preparation and Serving Related Workers, All Other	No formal educational credential	None	Short-term on-the-job training	\$12.41
37-0000	Building and Grounds Cleaning and Maintenance Occupations				\$16.69
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	High school diploma or equivalent	Less than 5 years	None	\$20.53
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	High school diploma or equivalent	Less than 5 years	None	\$24.66
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	No formal educational credential	None	Short-term on-the-job training	\$16.27
37-2012	Maids and Housekeeping Cleaners	No formal educational credential	None	Short-term on-the-job training	\$13.73
37-3011	Landscaping and Groundskeeping Workers	No formal educational credential	None	Short-term on-the-job training	\$17.36
37-3013	Tree Trimmers and Pruners	High school diploma or equivalent	None	Short-term on-the-job training	\$22.74
39-0000	Personal Care and Service Occupations				\$14.22
39-1014	First-Line Supervisors of Entertainment And Recreation Workers, Except Gambling Services	High school diploma or equivalent	Less than 5 years	None	\$18.61
39-1022	First-Line Supervisors of Personal Service Workers	High school diploma or equivalent	Less than 5 years	None	\$20.46
39-2011	Animal Trainers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$27.60
39-2021	Animal Caretakers	High school diploma or equivalent	None	Short-term on-the-job training	\$13.83
39-3011	Gambling Dealers	High school diploma or equivalent	None	Short-term on-the-job training	\$17.31
39-3031	Ushers, Lobby Attendants, and Ticket Takers	No formal educational credential	None	Short-term on-the-job training	\$13.53
39-3091	Amusement and Recreation Attendants	No formal educational credential	None	Short-term on-the-job training	\$12.53
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	High school diploma or equivalent	None	Short-term on-the-job training	\$11.45
39-4012	Crematory Operators	High school diploma or equivalent	None	Short-term on-the-job training	\$20.07
39-4021	Funeral Attendants	High school diploma or equivalent	None	Short-term on-the-job training	\$14.74
39-4031	Morticians, Undertakers, and Funeral Arrangers	Associate's degree	None	Long-term on-the-job training	\$23.82
39-5012	Hairdressers, Hairstylists, and Cosmetologists	Postsecondary non-degree award	None	None	\$16.31
39-5092	Manicurists and Pedicurists	Postsecondary non-degree award	None	None	\$17.47
39-5093	Shampooers	No formal educational credential	None	Short-term on-the-job training	\$12.87
39-5094	Skincare Specialists	Postsecondary non-degree award	None	None	\$22.13
39-6011	Baggage Porters and Bellhops	High school diploma or equivalent	None	Short-term on-the-job training	\$11.35
39-6012	Concierges	High school diploma or equivalent	None	Moderate-term on-the-job training	\$14.24
39-7010	Tour and Travel Guides	High school diploma or equivalent	None	Moderate-term on-the-job training	\$14.18
39-9011	Childcare Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$13.44
39-9031	Exercise Trainers and Group Fitness Instructors	High school diploma or equivalent	None	Short-term on-the-job training	\$15.93
39-9032	Recreation Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$13.68
39-9041	Residential Advisors	High school diploma or equivalent	None	Short-term on-the-job training	\$16.24
41-0000	Sales and Related Occupations				\$16.70
41-1011	First-Line Supervisors of Retail Sales Workers	High school diploma or equivalent	Less than 5 years	None	\$20.27

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41-1012	First-Line Supervisors of Non-Retail Sales Workers	High school diploma or equivalent	Less than 5 years	None	\$39.59
41-2011	Cashiers	No formal educational credential	None	Short-term on-the-job training	\$13.27
41-2012	Gambling Change Persons and Booth Cashiers	No formal educational credential	None	Short-term on-the-job training	\$14.09
41-2021	Counter and Rental Clerks	No formal educational credential	None	Short-term on-the-job training	\$16.58
41-2022	Parts Salespersons	No formal educational credential	None	Moderate-term on-the-job training	\$17.21
41-2031	Retail Salespersons	No formal educational credential	None	Short-term on-the-job training	\$14.46
41-3011	Advertising Sales Agents	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.54
41-3021	Insurance Sales Agents	High school diploma or equivalent	None	Moderate-term on-the-job training	\$28.84
41-3031	Securities, Commodities, and Financial Services Sales Agents	Bachelor's degree	None	Moderate-term on-the-job training	\$28.46
41-3041	Travel Agents	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.68
41-3091	Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	High school diploma or equivalent	None	Moderate-term on-the-job training	\$28.95
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	Bachelor's degree	None	Moderate-term on-the-job training	\$42.79
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	High school diploma or equivalent	None	Moderate-term on-the-job training	\$33.00
41-9011	Demonstrators and Product Promoters	No formal educational credential	None	Short-term on-the-job training	\$16.59
41-9012	Models	No formal educational credential	None	None	\$21.57
41-9021	Real Estate Brokers	High school diploma or equivalent	Less than 5 years	None	\$32.84
41-9022	Real Estate Sales Agents	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.24
41-9031	Sales Engineers	Bachelor's degree	None	Moderate-term on-the-job training	\$44.17
41-9041	Telemarketers	No formal educational credential	None	Short-term on-the-job training	\$14.90
41-9091	Door-to-Door Sales Workers, News and Street Vendors, and Related Workers	No formal educational credential	None	Short-term on-the-job training	\$13.97
41-9099	Sales and Related Workers, All Other	High school diploma or equivalent	None	None	\$18.57
43-0000	Office and Administrative Support Occupations				\$20.43
43-1011	First-Line Supervisors of Office and Administrative Support Workers	High school diploma or equivalent	Less than 5 years	None	\$29.39
43-2011	Switchboard Operators, Including Answering Service	High school diploma or equivalent	None	Short-term on-the-job training	\$17.00
43-2021	Telephone Operators	High school diploma or equivalent	None	Short-term on-the-job training	\$17.49
43-3011	Bill and Account Collectors	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.89
43-3021	Billing and Posting Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$20.20
43-3031	Bookkeeping, Accounting, and Auditing Clerks	Some college, no degree	None	Moderate-term on-the-job training	\$22.15
43-3041	Gambling Cage Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$14.10
43-3051	Payroll and Timekeeping Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$24.07
43-3061	Procurement Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$21.88
43-3071	Tellers	High school diploma or equivalent	None	Short-term on-the-job training	\$17.88
43-3099	Financial Clerks, All Other	High school diploma or equivalent	None	Short-term on-the-job training	\$22.58
43-4011	Brokerage Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$26.51
43-4021	Correspondence Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$19.12
43-4031	Court, Municipal, and License Clerks	High school diploma or equivalent	None	Long-term on-the-job training	\$19.91
43-4041	Credit Authorizers, Checkers, and Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.77
43-4051	Customer Service Representatives	High school diploma or equivalent	None	Short-term on-the-job training	\$19.17
43-4061	Eligibility Interviewers, Government Programs	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.16
43-4071	File Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$18.99
43-4081	Hotel, Motel, and Resort Desk Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$13.45
43-4111	Interviewers, Except Eligibility and Loan	High school diploma or equivalent	None	Short-term on-the-job training	\$18.29
43-4121	Library Assistants, Clerical	High school diploma or equivalent	None	Short-term on-the-job training	\$16.15
43-4131	Loan Interviewers and Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$22.53
43-4141	New Accounts Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.08
43-4151	Order Clerks	Some college, no degree	None	Short-term on-the-job training	\$19.63
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	Associate's degree	None	None	\$22.03

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43-4171	Receptionists and Information Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$16.38
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$17.63
43-4199	Information and Record Clerks, All Other	High school diploma or equivalent	None	Short-term on-the-job training	\$21.26
43-5011	Cargo and Freight Agents	High school diploma or equivalent	None	Short-term on-the-job training	\$21.74
43-5021	Couriers and Messengers	High school diploma or equivalent	None	Short-term on-the-job training	\$16.60
43-5031	Public Safety Telecommunicators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$25.31
43-5032	Dispatchers, Except Police, Fire, and Ambulance	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.22
43-5041	Meter Readers, Utilities	High school diploma or equivalent	None	Short-term on-the-job training	\$24.27
43-5051	Postal Service Clerks	No formal educational credential	None	Short-term on-the-job training	\$28.88
43-5052	Postal Service Mail Carriers	No formal educational credential	None	Short-term on-the-job training	\$27.08
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	No formal educational credential	None	Short-term on-the-job training	\$25.69
43-5061	Production, Planning, and Expediting Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$24.80
43-5071	Shipping, Receiving, and Inventory Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$19.13
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	High school diploma or equivalent	None	Short-term on-the-job training	\$19.11
43-6011	Executive Secretaries and Executive Administrative Assistants	High school diploma or equivalent	Less than 5 years	None	\$30.57
43-6012	Legal Secretaries and Administrative Assistants	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.55
43-6013	Medical Secretaries and Administrative Assistants	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.40
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	High school diploma or equivalent	None	Short-term on-the-job training	\$20.36
43-9021	Data Entry Keyers	High school diploma or equivalent	None	Short-term on-the-job training	\$18.05
43-9022	Word Processors and Typists	High school diploma or equivalent	None	Short-term on-the-job training	\$21.10
43-9031	Desktop Publishers	Associate's degree	None	Short-term on-the-job training	\$21.28
43-9041	Insurance Claims and Policy Processing Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.43
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	High school diploma or equivalent	None	Short-term on-the-job training	\$16.68
43-9061	Office Clerks, General	High school diploma or equivalent	None	Short-term on-the-job training	\$19.15
43-9071	Office Machine Operators, Except Computer	High school diploma or equivalent	None	Short-term on-the-job training	\$17.85
43-9081	Proofreaders and Copy Markers	Bachelor's degree	None	None	\$20.82
43-9199	Office and Administrative Support Workers, All Other	High school diploma or equivalent	None	Short-term on-the-job training	\$15.67
45-0000	Farming, Fishing, and Forestry Occupations				\$19.44
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	High school diploma or equivalent	Less than 5 years	None	\$26.23
45-2041	Graders and Sorters, Agricultural Products	No formal educational credential	None	Short-term on-the-job training	\$18.25
45-2091	Agricultural Equipment Operators	No formal educational credential	None	Moderate-term on-the-job training	\$23.59
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	No formal educational credential	None	Short-term on-the-job training	\$16.79
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	No formal educational credential	None	Short-term on-the-job training	\$15.19
45-2099	Agricultural Workers, All Other	No formal educational credential	None	Short-term on-the-job training	\$28.84
45-4021	Fallers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$24.27
45-4022	Logging Equipment Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$20.00
45-4023	Log Graders and Scalers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.56
47-0000	Construction and Extraction Occupations				\$28.53
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	High school diploma or equivalent	5 years or more	None	\$36.30
47-2011	Boilermakers	High school diploma or equivalent	None	Apprenticeship	\$40.89
47-2021	Brickmasons and Blockmasons	High school diploma or equivalent	None	Apprenticeship	\$31.12
47-2031	Carpenters	High school diploma or equivalent	None	Apprenticeship	\$26.21
47-2041	Carpet Installers	No formal educational credential	None	Short-term on-the-job training	\$24.68
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	No formal educational credential	None	Moderate-term on-the-job training	\$22.85
47-2044	Tile and Stone Setters	No formal educational credential	None	Long-term on-the-job training	\$23.14
47-2051	Cement Masons and Concrete Finishers	No formal educational credential	None	Moderate-term on-the-job training	\$29.19
47-2061	Construction Laborers	No formal educational credential	None	Short-term on-the-job training	\$23.40

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47-2071	Paving, Surfacing, and Tamping Equipment Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$29.84
47-2073	Operating Engineers and Other Construction Equipment Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$29.04
47-2081	Drywall and Ceiling Tile Installers	No formal educational credential	None	Moderate-term on-the-job training	\$28.64
47-2082	Tapers	No formal educational credential	None	Moderate-term on-the-job training	\$31.79
47-2111	Electricians	High school diploma or equivalent	None	Apprenticeship	\$30.46
47-2121	Glaziers	High school diploma or equivalent	None	Apprenticeship	\$28.14
47-2131	Insulation Workers, Floor, Ceiling, and Wall	No formal educational credential	None	Short-term on-the-job training	\$29.55
47-2132	Insulation Workers, Mechanical	High school diploma or equivalent	None	Apprenticeship	\$33.11
47-2141	Painters, Construction and Maintenance	No formal educational credential	None	Moderate-term on-the-job training	\$24.35
47-2151	Pipelayers	No formal educational credential	None	Short-term on-the-job training	\$24.47
47-2152	Plumbers, Pipefitters, and Steamfitters	High school diploma or equivalent	None	Apprenticeship	\$31.27
47-2161	Plasterers and Stucco Masons	No formal educational credential	None	Long-term on-the-job training	\$31.13
47-2181	Roofers	No formal educational credential	None	Moderate-term on-the-job training	\$24.53
47-2211	Sheet Metal Workers	High school diploma or equivalent	None	Apprenticeship	\$29.54
47-2221	Structural Iron and Steel Workers	High school diploma or equivalent	None	Apprenticeship	\$34.97
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	No formal educational credential	None	Short-term on-the-job training	\$21.29
47-3012	Helpers--Carpenters	No formal educational credential	None	Short-term on-the-job training	\$18.41
47-3013	Helpers--Electricians	High school diploma or equivalent	None	Short-term on-the-job training	\$17.50
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	High school diploma or equivalent	None	Short-term on-the-job training	\$16.68
47-3019	Helpers, Construction Trades, All Other	No formal educational credential	None	Short-term on-the-job training	\$19.13
47-4011	Construction and Building Inspectors	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training	\$32.42
47-4031	Fence Erectors	No formal educational credential	None	Moderate-term on-the-job training	\$25.44
47-4041	Hazardous Materials Removal Workers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.00
47-4051	Highway Maintenance Workers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.17
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.45
47-4090	Miscellaneous Construction and Related Workers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$21.45
47-5012	Rotary Drill Operators, Oil and Gas	No formal educational credential	None	Moderate-term on-the-job training	\$22.00
47-5013	Service Unit Operators, Oil and Gas	No formal educational credential	None	Moderate-term on-the-job training	\$21.81
47-5022	Excavating and Loading Machine and Dragline Operators, Surface Mining	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$23.13
47-5023	Earth Drillers, Except Oil and Gas	High school diploma or equivalent	Less than 5 years	Long-term on-the-job training	\$23.34
47-5041	Continuous Mining Machine Operators	No formal educational credential	None	Moderate-term on-the-job training	\$24.61
47-5071	Roustabouts, Oil and Gas	No formal educational credential	None	Moderate-term on-the-job training	\$26.08
49-0000	Installation, Maintenance, and Repair Occupations				\$25.13
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	High school diploma or equivalent	Less than 5 years	None	\$35.17
49-2011	Computer, Automated Teller, and Office Machine Repairers	Some college, no degree	None	Short-term on-the-job training	\$21.33
49-2021	Radio, Cellular, and Tower Equipment Installers and Repairers	Associate's degree	None	Moderate-term on-the-job training	\$29.81
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	Postsecondary non-degree award	None	Moderate-term on-the-job training	\$28.89
49-2091	Avionics Technicians	Associate's degree	None	None	\$30.63
49-2092	Electric Motor, Power Tool, and Related Repairers	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$23.75
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	Postsecondary non-degree award	None	Long-term on-the-job training	\$28.77
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training	\$46.66
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.99
49-2097	Audiovisual Equipment Installers and Repairers	Postsecondary non-degree award	None	Short-term on-the-job training	\$20.96
49-2098	Security and Fire Alarm Systems Installers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$24.56
49-3011	Aircraft Mechanics and Service Technicians	Postsecondary non-degree award	None	None	\$35.66
49-3021	Automotive Body and Related Repairers	High school diploma or equivalent	None	Long-term on-the-job training	\$22.72
49-3022	Automotive Glass Installers and Repairers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.65

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49-3023	Automotive Service Technicians and Mechanics	Postsecondary non-degree award	None	Short-term on-the-job training	\$21.38
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	High school diploma or equivalent	None	Long-term on-the-job training	\$26.71
49-3041	Farm Equipment Mechanics and Service Technicians	High school diploma or equivalent	None	Long-term on-the-job training	\$23.21
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	High school diploma or equivalent	None	Long-term on-the-job training	\$29.07
49-3043	Rail Car Repairers	High school diploma or equivalent	None	Long-term on-the-job training	\$26.28
49-3051	Motorboat Mechanics and Service Technicians	High school diploma or equivalent	None	Long-term on-the-job training	\$22.19
49-3052	Motorcycle Mechanics	Postsecondary non-degree award	None	Short-term on-the-job training	\$21.02
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	High school diploma or equivalent	None	Moderate-term on-the-job training	\$20.99
49-3091	Bicycle Repairers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.20
49-3092	Recreational Vehicle Service Technicians	High school diploma or equivalent	None	Long-term on-the-job training	\$22.90
49-3093	Tire Repairers and Changers	High school diploma or equivalent	None	Short-term on-the-job training	\$17.66
49-9011	Mechanical Door Repairers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$26.67
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	High school diploma or equivalent	None	Moderate-term on-the-job training	\$35.88
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	Postsecondary non-degree award	None	Long-term on-the-job training	\$27.39
49-9031	Home Appliance Repairers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$21.05
49-9041	Industrial Machinery Mechanics	High school diploma or equivalent	None	Long-term on-the-job training	\$29.75
49-9043	Maintenance Workers, Machinery	High school diploma or equivalent	None	Long-term on-the-job training	\$28.51
49-9044	Millwrights	High school diploma or equivalent	None	Apprenticeship	\$35.16
49-9051	Electrical Power-Line Installers and Repairers	High school diploma or equivalent	None	Long-term on-the-job training	\$42.39
49-9052	Telecommunications Line Installers and Repairers	High school diploma or equivalent	None	Long-term on-the-job training	\$25.51
49-9062	Medical Equipment Repairers	Associate's degree	None	Moderate-term on-the-job training	\$29.90
49-9063	Musical Instrument Repairers and Tuners	High school diploma or equivalent	None	Apprenticeship	\$20.93
49-9064	Watch and Clock Repairers	High school diploma or equivalent	None	Long-term on-the-job training	\$16.31
49-9069	Precision Instrument and Equipment Repairers, All Other	High school diploma or equivalent	None	Long-term on-the-job training	\$27.37
49-9071	Maintenance and Repair Workers, General	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.99
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	High school diploma or equivalent	None	Short-term on-the-job training	\$16.49
49-9094	Locksmiths and Safe Repairers	High school diploma or equivalent	None	Long-term on-the-job training	\$22.44
49-9096	Riggers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$26.65
49-9098	Helpers--Installation, Maintenance, and Repair Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$18.27
49-9099	Installation, Maintenance, and Repair Workers, All Other	High school diploma or equivalent	None	Moderate-term on-the-job training	\$21.20
51-0000	Production Occupations				\$21.04
51-1011	First-Line Supervisors of Production and Operating Workers	High school diploma or equivalent	Less than 5 years	None	\$30.52
51-2021	Coil Winders, Tapers, and Finishers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.82
51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.74
51-2031	Engine and Other Machine Assemblers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$30.48
51-2041	Structural Metal Fabricators and Fitters	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.81
51-2051	Fiberglass Laminators and Fabricators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.36
51-2090	Miscellaneous Assemblers and Fabricators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.31
51-3011	Bakers	No formal educational credential	None	Moderate-term on-the-job training	\$14.85
51-3021	Butchers and Meat Cutters	No formal educational credential	None	Long-term on-the-job training	\$16.86
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	No formal educational credential	None	Short-term on-the-job training	\$17.60
51-3023	Slaughterers and Meat Packers	No formal educational credential	None	Short-term on-the-job training	\$17.53
51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	No formal educational credential	None	Moderate-term on-the-job training	\$17.64
51-3092	Food Batchmakers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.29
51-3093	Food Cooking Machine Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.25
51-3099	Food Processing Workers, All Other	No formal educational credential	None	Moderate-term on-the-job training	\$16.94
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.78

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51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.40
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.08
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.67
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.81
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.30
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.18
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$21.89
51-4041	Machinists	High school diploma or equivalent	None	Long-term on-the-job training	\$24.06
51-4051	Metal-Refining Furnace Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.72
51-4052	Pourers and Casters, Metal	High school diploma or equivalent	None	Moderate-term on-the-job training	\$21.79
51-4061	Model Makers, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$31.23
51-4062	Patternmakers, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$26.94
51-4071	Foundry Mold and Coremakers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.44
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.09
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.68
51-4111	Tool and Die Makers	Postsecondary non-degree award	None	Long-term on-the-job training	\$29.42
51-4121	Welders, Cutters, Solderers, and Brazers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.93
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.31
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.93
51-4193	Plating Machine Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$20.10
51-4199	Metal Workers and Plastic Workers, All Other	High school diploma or equivalent	None	Moderate-term on-the-job training	\$20.00
51-5111	Prepress Technicians and Workers	Postsecondary non-degree award	None	None	\$22.11
51-5112	Printing Press Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.34
51-5113	Print Binding and Finishing Workers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.63
51-6011	Laundry and Dry-Cleaning Workers	No formal educational credential	None	Short-term on-the-job training	\$13.60
51-6021	Pressers, Textile, Garment, and Related Materials	No formal educational credential	None	Short-term on-the-job training	\$13.87
51-6031	Sewing Machine Operators	No formal educational credential	None	Short-term on-the-job training	\$15.36
51-6041	Shoe and Leather Workers and Repairers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$14.20
51-6051	Sewers, Hand	No formal educational credential	None	Moderate-term on-the-job training	\$16.77
51-6052	Tailors, Dressmakers, and Custom Sewers	No formal educational credential	None	Moderate-term on-the-job training	\$17.57
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$16.71
51-6063	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Short-term on-the-job training	\$17.37
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$27.79
51-6093	Upholsterers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.53
51-6099	Textile, Apparel, and Furnishings Workers, All Other	High school diploma or equivalent	None	Short-term on-the-job training	\$17.64
51-7011	Cabinetmakers and Bench Carpenters	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.48
51-7021	Furniture Finishers	High school diploma or equivalent	None	Short-term on-the-job training	\$19.88
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.87
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.69
51-7099	Woodworkers, All Other	High school diploma or equivalent	None	Moderate-term on-the-job training	\$21.25
51-8011	Nuclear Power Reactor Operators	High school diploma or equivalent	None	Long-term on-the-job training	\$59.27
51-8012	Power Distributors and Dispatchers	High school diploma or equivalent	None	Long-term on-the-job training	\$47.60
51-8013	Power Plant Operators	High school diploma or equivalent	None	Long-term on-the-job training	\$44.04
51-8021	Stationary Engineers and Boiler Operators	High school diploma or equivalent	None	Long-term on-the-job training	\$31.27
51-8031	Water and Wastewater Treatment Plant and System Operators	High school diploma or equivalent	None	Long-term on-the-job training	\$26.25
51-8091	Chemical Plant and System Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$32.09
51-8092	Gas Plant Operators	High school diploma or equivalent	None	Long-term on-the-job training	\$26.80

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51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$48.38
51-8099	Plant and System Operators, All Other	High school diploma or equivalent	None	Moderate-term on-the-job training	\$24.69
51-9011	Chemical Equipment Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$24.25
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.08
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.06
51-9022	Grinding and Polishing Workers, Hand	No formal educational credential	None	Moderate-term on-the-job training	\$18.81
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$21.36
51-9031	Cutters and Trimmers, Hand	No formal educational credential	None	Short-term on-the-job training	\$17.82
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$20.47
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.16
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.51
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$21.66
51-9071	Jewelers and Precious Stone and Metal Workers	High school diploma or equivalent	None	Long-term on-the-job training	\$21.80
51-9081	Dental Laboratory Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.55
51-9082	Medical Appliance Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.13
51-9083	Ophthalmic Laboratory Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$20.09
51-9111	Packaging and Filling Machine Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.85
51-9123	Painting, Coating, and Decorating Workers	No formal educational credential	None	Moderate-term on-the-job training	\$21.61
51-9124	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$21.33
51-9161	Computer Numerically Controlled Tool Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.90
51-9162	Computer Numerically Controlled Tool Programmers	Postsecondary non-degree award	None	Moderate-term on-the-job training	\$29.85
51-9191	Adhesive Bonding Machine Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.60
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.20
51-9193	Cooling and Freezing Equipment Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$20.92
51-9194	Etchers and Engravers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$16.75
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	High school diploma or equivalent	None	Long-term on-the-job training	\$18.80
51-9196	Paper Goods Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.49
51-9197	Tire Builders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.82
51-9198	Helpers--Production Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$17.87
51-9199	Production Workers, All Other	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.88
53-0000	Transportation and Material Moving Occupations				\$18.74
53-1047	First-Line Supervisors of Transportation & Material Moving Workers, Exc Aircraft Cargo Handling Supervisor	High school diploma or equivalent	Less than 5 years	None	\$28.51
53-2011	Airline Pilots, Copilots, and Flight Engineers	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training	\$224,100 ⁺
53-2012	Commercial Pilots	Postsecondary non-degree award	None	Moderate-term on-the-job training	\$98,800 ⁺
53-2021	Air Traffic Controllers	Associate's degree	None	Long-term on-the-job training	\$72.68
53-2031	Flight Attendants	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$65,040 ⁺
53-3031	Driver/Sales Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$14.54
53-3032	Heavy and Tractor-Trailer Truck Drivers	Postsecondary non-degree award	None	Short-term on-the-job training	\$25.82
53-3033	Light Truck Drivers	High school diploma or equivalent	None	Short-term on-the-job training	\$18.73
53-3051	Bus Drivers, School	High school diploma or equivalent	None	Short-term on-the-job training	\$21.95
53-3052	Bus Drivers, Transit and Intercity	High school diploma or equivalent	None	Moderate-term on-the-job training	\$29.28
53-3053	Shuttle Drivers and Chauffeurs	No formal educational credential	None	Short-term on-the-job training	\$14.38
53-3054	Taxi Drivers	No formal educational credential	None	Short-term on-the-job training	\$15.77
53-3099	Motor Vehicle Operators, All Other	No formal educational credential	None	Short-term on-the-job training	\$15.38
53-4022	Railroad Brake, Signal, and Switch Operators and Locomotive Firers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$30.66
53-4031	Railroad Conductors and Yardmasters	High school diploma or equivalent	None	Moderate-term on-the-job training	\$29.40
53-6011	Bridge and Lock Tenders	High school diploma or equivalent	None	Short-term on-the-job training	\$29.83

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SOC Code ¹	Occupational Title	Typical Education*** Required for Entry	Commonly Required Work Experience in Related Occupations	Typical On-The-Job Training to Obtain Competency	Median Wage** May 2023
53-6021	Parking Attendants	No formal educational credential	None	Short-term on-the-job training	\$14.33
53-6031	Automotive and Watercraft Service Attendants	No formal educational credential	None	Short-term on-the-job training	\$16.61
53-6032	Aircraft Service Attendants	High school diploma or equivalent	None	Short-term on-the-job training	\$17.86
53-6051	Transportation Inspectors	High school diploma or equivalent	None	Moderate-term on-the-job training	\$36.50
53-6099	Transportation Workers, All Other	High school diploma or equivalent	None	Short-term on-the-job training	\$17.28
53-7011	Conveyor Operators and Tenders	No formal educational credential	None	Short-term on-the-job training	\$18.61
53-7021	Crane and Tower Operators	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$24.33
53-7051	Industrial Truck and Tractor Operators	No formal educational credential	None	Short-term on-the-job training	\$21.05
53-7061	Cleaners of Vehicles and Equipment	No formal educational credential	None	Short-term on-the-job training	\$16.33
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	No formal educational credential	None	Short-term on-the-job training	\$18.08
53-7063	Machine Feeders and Offbearers	No formal educational credential	None	Short-term on-the-job training	\$18.71
53-7064	Packers and Packagers, Hand	No formal educational credential	None	Short-term on-the-job training	\$16.89
53-7065	Stockers and Order Fillers	High school diploma or equivalent	None	Short-term on-the-job training	\$17.57
53-7071	Gas Compressor and Gas Pumping Station Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$39.74
53-7072	Pump Operators, Except Wellhead Pumpers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$37.56
53-7073	Wellhead Pumpers	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$24.30
53-7081	Refuse and Recyclable Material Collectors	No formal educational credential	None	Short-term on-the-job training	\$22.66
53-7121	Tank Car, Truck, and Ship Loaders	No formal educational credential	None	Short-term on-the-job training	\$21.48
53-7199	Material Moving Workers, All Other	No formal educational credential	None	Short-term on-the-job training	\$19.85

¹ Occupational codes based on SOC 2010 coding structure. Detailed information - <http://www.bls.gov/soc/>

* Occupations with 100 or more workers.

** Wage estimates are based on Ohio's OEWS surveys.

*** Education, experience and training levels associated with occupations were based on national data provided by the BLS.

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, June 2024.

Wage is greater than or equal to \$115/hr or \$239,200/year.

† Statewide annual wage. Certain occupations report wages at the annual level - for elementary and secondary teachers this typically reflects the 9 1/2 month school year.



Bureau of Labor Market Information Business Principles for Workforce Development

- Partner with the workforce and economic development community.
- Develop and deploy new information solution tools and systems for the workforce and economic development community.
- Provide products and services that are customer- and demand-driven.
- Be known as an important and reliable source for information solutions that support workforce development goals and outcomes.

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