

Oklahoma Long-Term Occupational Outlook, 2018 - 2028

Occupation		Employment		Employment Change		Average Annual Openings	Median Annual Wage, 2018 ¹	Education and Training Classification		
Title	Code	2018	2028	Number	Percent			Typical Entry-Level Education ²	Work Experience in a Related Occupation ³	Typical on-the-job Training ⁴
Total, All Occupations	00-0000	1,802,040	1,876,530	74,490	4.1	216,860	\$34,560			
Management Occupations	11-0000	114,360	120,640	6,280	5.5	10,550	\$81,930			
Top Executives	11-1000	34,090	35,440	1,350	4.0	3,070	NA			
Chief Executives	11-1011	5,110	4,760	-350	-6.8	320	\$128,860	Bachelor's degree	5 years or more	None
General and Operations Managers	11-1021	28,030	29,660	1,630	5.8	2,670	\$82,180	Bachelor's degree	5 years or more	None
Legislators	11-1031	950	1,020	70	7.3	80	\$36,140	Bachelor's degree	Less than 5 years	None
Advertising, Marketing, Promotions, Public Relations, and Sales Managers	11-2000	5,530	5,760	230	4.1	520	NA			
Advertising and Promotions Managers	11-2011	140	140	0	3.0	10	\$80,280	Bachelor's degree	Less than 5 years	None
Marketing Managers	11-2021	1,490	1,580	90	5.7	140	\$101,530	Bachelor's degree	5 years or more	None
Sales Managers	11-2022	3,070	3,150	80	2.6	280	\$92,560	Bachelor's degree	Less than 5 years	None
Public Relations and Fundraising Managers	11-2031	830	890	60	6.6	80	\$76,220	Bachelor's degree	5 years or more	None
Operations Specialties Managers	11-3000	24,150	26,030	1,880	7.8	2,190	NA			
Administrative Services Managers	11-3011	7,280	7,700	430	5.9	670	\$82,020	Bachelor's degree	Less than 5 years	None
Computer and Information Systems Managers	11-3021	3,740	3,960	220	5.9	320	\$108,220	Bachelor's degree	5 years or more	None
Financial Managers	11-3031	7,000	7,990	990	14.2	680	\$96,580	Bachelor's degree	5 years or more	None
Industrial Production Managers	11-3051	1,930	2,000	70	3.5	150	\$96,340	Bachelor's degree	5 years or more	None
Purchasing Managers	11-3061	540	560	20	3.7	50	\$95,790	Bachelor's degree	5 years or more	None
Transportation, Storage, and Distribution Managers	11-3071	1,650	1,700	50	2.9	140	\$72,900	High school diploma or equivalent	5 years or more	None
Compensation and Benefits Managers	11-3111	140	140	0	2.9	10	\$93,030	Bachelor's degree	5 years or more	None
Human Resources Managers	11-3121	1,440	1,510	70	5.1	130	\$86,930	Bachelor's degree	5 years or more	None
Training and Development Managers	11-3131	440	460	30	5.9	40	\$81,450	Bachelor's degree	5 years or more	None
Other Management Occupations	11-9000	50,590	53,410	2,820	5.6	4,770	NA			
Farmers, Ranchers, and Other Agricultural Managers	11-9013	10,980	10,930	-50	-0.5	1,080	\$54,030	High school diploma or equivalent	5 years or more	None
Construction Managers	11-9021	4,230	4,540	310	7.3	350	\$80,180	Bachelor's degree	None	Moderate-term on-the-job training
Education Administrators, Preschool and Childcare Center/Program	11-9031	800	880	80	9.3	70	\$37,540	Bachelor's degree	Less than 5 years	None
Education Administrators, Elementary and Secondary School	11-9032	3,220	3,330	120	3.6	270	\$70,390	Master's degree	5 years or more	None
Education Administrators, Postsecondary	11-9033	2,550	2,680	130	5.0	220	\$81,270	Master's degree	Less than 5 years	None
Education Administrators, All Other	11-9039	360	370	10	3.9	30	\$71,740	Bachelor's degree	Less than 5 years	None
Architectural and Engineering Managers	11-9041	2,020	2,070	60	2.9	150	\$125,010	Bachelor's degree	5 years or more	None
Food Service Managers	11-9051	5,080	5,640	560	10.9	670	\$47,270	High school diploma or equivalent	Less than 5 years	None
Funeral Service Managers	11-9061	450	470	20	4.7	40	\$65,340	Associate's degree	Less than 5 years	None
Gaming Managers	11-9071	570	610	40	6.5	70	\$59,650	High school diploma or equivalent	Less than 5 years	None
Lodging Managers	11-9081	710	730	10	1.5	80	\$45,930	High school diploma or equivalent	Less than 5 years	None
Medical and Health Services Managers	11-9111	7,740	8,590	850	11.0	730	\$79,040	Bachelor's degree	Less than 5 years	None
Natural Sciences Managers	11-9121	400	410	10	2.5	40	\$95,970	Bachelor's degree	5 years or more	None
Postmasters and Mail Superintendents	11-9131	240	180	-60	-25.8	10	\$76,660	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
Property, Real Estate, and Community Association Managers	11-9141	4,470	4,760	290	6.5	380	\$75,370	High school diploma or equivalent	Less than 5 years	None
Social and Community Service Managers	11-9151	1,550	1,720	170	11.2	160	\$57,110	Bachelor's degree	Less than 5 years	None
Emergency Management Directors	11-9161	280	300	20	7.5	20	\$46,990	Bachelor's degree	5 years or more	None
Managers, All Other	11-9199	4,960	5,210	260	5.2	410	\$98,270	Bachelor's degree	Less than 5 years	None
Business and Financial Operations Occupations	13-0000	86,070	90,400	4,330	5.0	8,830	\$59,580			
Business Operations Specialists	13-1000	55,110	57,460	2,350	4.3	5,770	NA			
Buyers and Purchasing Agents	13-1020	5,480	5,080	-400	-7.4	510	\$57,820	Bachelor's degree	None	Moderate-term on-the-job training
Claims Adjusters, Examiners, and Investigators	13-1031	4,240	3,950	-300	-7.0	320	\$59,040	High school diploma or equivalent	None	Long-term on-the-job training
Compliance Officers	13-1041	4,300	4,530	230	5.3	410	\$54,560	Bachelor's degree	None	Moderate-term on-the-job training
Cost Estimators	13-1051	1,980	2,100	120	6.2	210	\$60,500	Bachelor's degree	None	Moderate-term on-the-job training
Human Resources Specialists	13-1071	7,080	7,350	270	3.8	750	\$50,720	Bachelor's degree	None	None
Labor Relations Specialists	13-1075	2,060	1,860	-210	-9.9	180	\$58,120	Bachelor's degree	Less than 5 years	None
Logisticians	13-1081	2,860	2,960	100	3.4	290	\$73,380	Bachelor's degree	None	None
Management Analysts	13-1111	6,050	6,800	750	12.4	680	\$74,820	Bachelor's degree	Less than 5 years	None
Meeting, Convention, and Event Planners	13-1121	1,480	1,590	110	7.1	190	\$42,030	Bachelor's degree	None	None
Fundraisers	13-1131	1,240	1,330	90	7.2	140	\$55,350	Bachelor's degree	None	None
Compensation, Benefits, and Job Analysis Specialists	13-1141	910	930	20	2.1	90	\$51,150	Bachelor's degree	Less than 5 years	None
Training and Development Specialists	13-1151	5,190	5,580	390	7.6	620	\$51,900	Bachelor's degree	Less than 5 years	None
Market Research Analysts and Marketing Specialists	13-1161	5,650	6,690	1,030	18.3	730	\$53,490	Bachelor's degree	None	None
Business Operations Specialists, All Other	13-1199	6,400	6,530	140	2.1	640	\$71,110	Bachelor's degree	None	None
Financial Specialists	13-2000	30,960	32,940	1,980	6.4	3,060	NA			
Accountants and Auditors	13-2011	15,860	16,810	950	6.0	1,620	\$65,030	Bachelor's degree	None	None
Appraisers and Assessors of Real Estate	13-2021	1,070	1,160	90	8.4	90	\$39,130	Bachelor's degree	None	Long-term on-the-job training
Budget Analysts	13-2031	860	880	20	2.1	70	\$70,220	Bachelor's degree	None	None
Credit Analysts	13-2041	630	660	30	4.8	60	\$49,670	Bachelor's degree	None	None
Financial Analysts	13-2051	1,680	1,790	110	6.7	160	\$62,600	Bachelor's degree	None	None

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Personal Financial Advisors	13-2052	1,500	1,610	110	7.5	130	\$54,530	Bachelor's degree	None	Long-term on-the-job training	
Insurance Underwriters	13-2053	830	790	-40	-5.0	60	\$55,450	Bachelor's degree	None	Moderate-term on-the-job training	
Financial Examiners	13-2061	490	530	40	7.1	40	\$60,450	Bachelor's degree	None	Long-term on-the-job training	
Credit Counselors	13-2071	660	710	50	7.1	60	\$38,770	Bachelor's degree	None	Moderate-term on-the-job training	
Loan Officers	13-2072	4,110	4,450	350	8.4	390	\$61,230	Bachelor's degree	None	Moderate-term on-the-job training	
Tax Examiners and Collectors, and Revenue Agents	13-2081	440	440	0	0.0	40	\$36,160	Bachelor's degree	None	Moderate-term on-the-job training	
Tax Preparers	13-2082	1,870	2,090	220	11.7	250	\$40,320	High school diploma or equivalent	None	Moderate-term on-the-job training	
Financial Specialists, All Other	13-2099	970	1,030	60	6.2	90	\$68,660	Bachelor's degree	None	Moderate-term on-the-job training	
Computer and Mathematical Occupations	15-0000	33,570	36,140	2,580	7.7	2,850	\$67,240				
Computer Occupations	15-1100	32,590	34,940	2,360	7.2	2,750	NA				
Computer and Information Research Scientists	15-1111	540	600	60	10.6	50	\$85,190	Master's degree	None	None	
Computer Systems Analysts	15-1121	3,610	3,760	150	4.1	280	\$78,140	Bachelor's degree	None	None	
Information Security Analysts	15-1122	890	1,120	220	25.1	90	\$78,010	Bachelor's degree	Less than 5 years	None	
Computer Programmers	15-1131	1,680	1,490	-200	-11.7	90	\$79,620	Bachelor's degree	None	None	
Software Developers, Applications	15-1132	4,640	5,620	980	21.1	460	\$84,900	Bachelor's degree	None	None	
Software Developers, Systems Software	15-1133	1,810	1,960	150	8.2	150	\$87,650	Bachelor's degree	None	None	
Web Developers	15-1134	900	970	70	8.1	80	\$56,660	Associate's degree	None	None	
Database Administrators	15-1141	1,710	1,840	130	7.4	140	\$66,270	Bachelor's degree	None	None	
Network and Computer Systems Administrators	15-1142	3,240	3,310	70	2.0	240	\$68,710	Bachelor's degree	None	None	
Computer Network Architects	15-1143	870	860	-10	-1.3	60	\$84,650	Bachelor's degree	5 years or more	None	
Computer User Support Specialists	15-1151	7,130	7,610	480	6.7	650	\$44,050	Some college, no degree	None	None	
Computer Network Support Specialists	15-1152	2,650	2,750	100	3.9	230	\$59,970	Associate's degree	None	None	
Computer Occupations, All Other	15-1199	2,910	3,070	160	5.6	230	\$78,630	Bachelor's degree	None	None	
Mathematical Science Occupations	15-2000	980	1,200	220	22.6	100	NA				
Operations Research Analysts	15-2031	550	670	120	22.4	50	\$63,090	Bachelor's degree	None	None	
Statisticians	15-2041	400	490	90	23.6	40	\$55,940	Master's degree	None	None	
Architecture and Engineering Occupations	17-0000	30,080	31,460	1,390	4.6	2,620	\$74,220				
Architects, Surveyors, and Cartographers	17-1000	2,260	2,410	150	6.5	190	NA				
Architects, Except Landscape and Naval	17-1011	1,060	1,130	70	6.6	90	\$77,650	Bachelor's degree	None	Internship/residency	
Landscape Architects	17-1012	230	240	10	4.4	20	\$54,840	Bachelor's degree	None	Internship/residency	
Cartographers and Photogrammetrists	17-1021	120	130	10	5.9	10	\$52,890	Bachelor's degree	None	None	
Surveyors	17-1022	850	910	60	7.0	70	\$50,330	Bachelor's degree	None	Internship/residency	
Engineers	17-2000	17,640	18,620	980	5.5	1,360	NA				
Aerospace Engineers	17-2011	1,150	1,210	60	5.2	80	\$90,620	Bachelor's degree	None	None	
Chemical Engineers	17-2041	280	300	10	4.2	20	\$105,800	Bachelor's degree	None	None	
Civil Engineers	17-2051	2,510	2,630	120	4.8	210	\$84,100	Bachelor's degree	None	None	
Computer Hardware Engineers	17-2061	240	260	20	8.0	20	\$109,260	Bachelor's degree	None	None	
Electrical Engineers	17-2071	1,420	1,520	100	7.3	110	\$95,860	Bachelor's degree	None	None	
Electronics Engineers, Except Computer	17-2072	1,910	1,950	40	2.1	130	\$92,220	Bachelor's degree	None	None	
Environmental Engineers	17-2081	900	930	40	3.9	70	\$70,220	Bachelor's degree	None	None	
Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	17-2111	630	670	40	6.4	50	\$85,630	Bachelor's degree	None	None	
Industrial Engineers	17-2112	1,690	1,930	240	14.0	150	\$82,310	Bachelor's degree	None	None	
Materials Engineers	17-2131	280	290	10	3.9	20	\$92,010	Bachelor's degree	None	None	
Mechanical Engineers	17-2141	2,950	3,130	180	6.2	220	\$84,200	Bachelor's degree	None	None	
Mining and Geological Engineers, Including Mining Safety Engineers	17-2151	270	280	10	3.7	20	NA	Bachelor's degree	None	None	
Petroleum Engineers	17-2171	2,010	2,060	50	2.6	150	\$129,100	Bachelor's degree	None	None	
Engineers, All Other	17-2199	1,300	1,350	50	3.7	100	\$82,980	Bachelor's degree	None	None	
Drafters, Engineering Technicians, and Mapping Technicians	17-3000	10,170	10,440	260	2.6	1,060	NA				
Architectural and Civil Drafters	17-3011	1,380	1,380	0	0.1	140	\$53,440	Associate's degree	None	None	
Electrical and Electronics Drafters	17-3012	390	410	20	4.6	40	\$61,000	Associate's degree	None	None	
Mechanical Drafters	17-3013	1,140	1,070	-70	-6.3	110	\$58,020	Associate's degree	None	None	
Civil Engineering Technicians	17-3022	1,140	1,140	10	0.4	110	\$48,190	Associate's degree	None	None	
Electrical and Electronics Engineering Technicians	17-3023	1,610	1,670	70	4.1	170	\$68,340	Associate's degree	None	None	
Electro-Mechanical Technicians	17-3024	340	370	30	8.3	40	\$56,950	Associate's degree	None	None	
Environmental Engineering Technicians	17-3025	470	490	20	5.2	50	\$48,460	Associate's degree	None	None	
Industrial Engineering Technicians	17-3026	770	780	10	1.8	80	\$67,980	Associate's degree	None	None	
Mechanical Engineering Technicians	17-3027	550	570	10	2.0	60	\$56,920	Associate's degree	None	None	
Engineering Technicians, Except Drafters, All Other	17-3029	1,420	1,540	120	8.4	160	\$63,020	Associate's degree	None	None	
Surveying and Mapping Technicians	17-3031	830	870	40	4.8	100	\$39,200	High school diploma or equivalent	None	Moderate-term on-the-job training	
Life, Physical, and Social Science Occupations	19-0000	12,990	13,820	830	6.4	1,420	\$56,370				
Life Scientists	19-1000	1,950	2,060	110	5.7	210	NA				
Animal Scientists	19-1011	70	70	0	3.0	10	\$21,160	Bachelor's degree	None	None	

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Food Scientists and Technologists	19-1012	110	110	10	7.5	10	\$54,610	Bachelor's degree	None	None	
Soil and Plant Scientists	19-1013	270	280	10	2.2	30	\$40,250	Bachelor's degree	None	None	
Biochemists and Biophysicists	19-1021	150	170	10	8.5	20	NA	Doctoral or professional degree	None	None	
Microbiologists	19-1022	150	170	20	12.8	20	\$53,360	Bachelor's degree	None	None	
Zoologists and Wildlife Biologists	19-1023	150	150	0	-1.3	10	\$45,950	Bachelor's degree	None	None	
Biological Scientists, All Other	19-1029	370	390	10	3.8	40	\$63,270	Bachelor's degree	None	None	
Conservation Scientists	19-1031	280	290	10	3.6	30	\$65,290	Bachelor's degree	None	None	
Epidemiologists	19-1041	80	80	0	1.3	10	\$64,780	Master's degree	None	None	
Physical Scientists	19-2000	2,880	3,010	130	4.6	310	NA				
Atmospheric and Space Scientists	19-2021	410	420	10	2.7	40	\$76,960	Bachelor's degree	None	None	
Chemists	19-2031	500	530	30	5.8	50	\$67,420	Bachelor's degree	None	None	
Materials Scientists	19-2032	60	60	0	5.3	10	NA	Bachelor's degree	None	None	
Environmental Scientists and Specialists, Including Health	19-2041	520	560	40	7.6	60	\$60,720	Bachelor's degree	None	None	
Geoscientists, Except Hydrologists and Geographers	19-2042	1,180	1,210	30	2.7	130	\$113,690	Bachelor's degree	None	None	
Hydrologists	19-2043	50	50	0	6.0	10	\$86,530	Bachelor's degree	None	None	
Physical Scientists, All Other	19-2099	110	120	10	9.8	10	\$87,330	Bachelor's degree	None	None	
Social Scientists and Related Workers	19-3000	2,720	3,030	310	11.4	260	NA				
Economists	19-3011	220	230	10	5.5	20	\$66,870	Master's degree	None	None	
Clinical, Counseling, and School Psychologists	19-3031	1,610	1,840	230	14.2	140	\$49,830	Doctoral or professional degree	None	Internship/residency	
Psychologists, All Other	19-3039	130	140	10	4.6	10	\$95,990	Master's degree	None	Internship/residency	
Urban and Regional Planners	19-3051	230	260	30	13.8	30	\$60,630	Master's degree	None	None	
Historians	19-3093	60	70	0	3.2	10	\$48,520	Master's degree	None	None	
Social Scientists and Related Workers, All Other	19-3099	180	180	0	2.2	20	\$71,410	Bachelor's degree	None	None	
Life, Physical, and Social Science Technicians	19-4000	5,450	5,720	270	5.0	640	NA				
Agricultural and Food Science Technicians	19-4011	210	220	10	4.2	30	\$30,500	Associate's degree	None	Moderate-term on-the-job training	
Biological Technicians	19-4021	660	680	20	3.0	70	\$41,080	Bachelor's degree	None	None	
Chemical Technicians	19-4031	830	860	30	3.4	90	\$52,500	Associate's degree	None	Moderate-term on-the-job training	
Geological and Petroleum Technicians	19-4041	1,360	1,440	90	6.4	150	\$45,790	Associate's degree	None	Moderate-term on-the-job training	
Social Science Research Assistants	19-4061	170	190	20	9.4	20	\$31,440	Bachelor's degree	None	None	
Environmental Science and Protection Technicians, Including Health	19-4091	420	450	30	6.6	60	\$44,130	Associate's degree	None	None	
Forest and Conservation Technicians	19-4093	130	130	0	0.8	20	\$46,790	Associate's degree	None	None	
Life, Physical, and Social Science Technicians, All Other	19-4099	1,470	1,540	70	4.7	190	\$52,310	Associate's degree	None	None	
Community and Social Service Occupations	21-0000	29,650	32,130	2,480	8.4	3,430	\$37,870				
Counselors, Social Workers, and Other Community and Social Service Specialists	21-1000	27,710	30,080	2,370	8.5	3,190	NA				
Educational, Guidance, School, and Vocational Counselors	21-1012	4,270	4,600	340	7.9	490	\$42,340	Master's degree	None	None	
Marriage and Family Therapists	21-1013	530	650	110	21.4	70	\$48,950	Master's degree	None	Internship/residency	
Rehabilitation Counselors	21-1015	2,290	2,510	230	10.0	270	\$22,260	Master's degree	None	None	
Substance Abuse, Behavioral Disorder, and Mental Health Counselors	21-1018	4,070	4,830	760	18.8	530	\$46,140	Bachelor's degree	None	None	
Counselors, All Other	21-1019	120	130	20	14.8	20	\$30,620	Master's degree	None	None	
Child, Family, and School Social Workers	21-1021	6,650	6,700	50	0.7	660	\$35,120	Bachelor's degree	None	None	
Healthcare Social Workers	21-1022	2,260	2,590	330	14.4	270	\$46,330	Master's degree	None	Internship/residency	
Mental Health and Substance Abuse Social Workers	21-1023	1,460	1,600	140	9.9	160	\$33,060	Master's degree	None	Internship/residency	
Social Workers, All Other	21-1029	400	410	10	1.5	40	\$63,270	Bachelor's degree	None	None	
Health Educators	21-1091	970	1,070	100	10.0	130	\$51,980	Bachelor's degree	None	None	
Probation Officers and Correctional Treatment Specialists	21-1092	960	940	-20	-2.1	80	\$36,570	Bachelor's degree	None	Short-term on-the-job training	
Social and Human Service Assistants	21-1093	1,970	2,140	170	8.5	260	\$27,950	High school diploma or equivalent	None	Short-term on-the-job training	
Community Health Workers	21-1094	1,250	1,360	120	9.3	160	\$43,340	High school diploma or equivalent	None	Short-term on-the-job training	
Community and Social Service Specialists, All Other	21-1099	530	560	30	5.2	70	\$43,850	Bachelor's degree	None	None	
Religious Workers	21-2000	1,940	2,050	110	5.9	240	NA				
Clergy	21-2011	1,120	1,210	80	7.3	130	\$48,320	Bachelor's degree	None	Moderate-term on-the-job training	
Directors, Religious Activities and Education	21-2021	590	610	20	3.9	80	\$36,900	Bachelor's degree	Less than 5 years	None	
Religious Workers, All Other	21-2099	230	240	10	3.9	30	\$20,670	Bachelor's degree	None	None	
Legal Occupations	23-0000	14,910	15,700	790	5.3	1,100	\$64,280				
Lawyers, Judges, and Related Workers	23-1000	9,490	9,890	400	4.2	510	NA				
Lawyers	23-1011	8,340	8,760	430	5.1	450	\$90,980	Doctoral or professional degree	None	None	
Judicial Law Clerks	23-1012	50	50	0	4.3	0	\$70,090	Doctoral or professional degree	None	None	
Administrative Law Judges, Adjudicators, and Hearing Officers	23-1021	150	150	0	-2.6	10	\$95,980	Doctoral or professional degree	5 years or more	Short-term on-the-job training	
Arbitrators, Mediators, and Conciliators	23-1022	90	90	10	5.9	0	\$50,310	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training	
Judges, Magistrate Judges, and Magistrates	23-1023	870	830	-40	-4.0	40	\$54,080	Doctoral or professional degree	5 years or more	Short-term on-the-job training	
Legal Support Workers	23-2000	5,420	5,820	390	7.3	590	NA				
Paralegals and Legal Assistants	23-2011	3,060	3,410	360	11.6	380	\$45,660	Associate's degree	None	None	
Title Examiners, Abstractors, and Searchers	23-2093	2,090	2,130	40	1.8	190	\$42,540	High school diploma or equivalent	None	Moderate-term on-the-job training	

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Occupation		Employment		Employment Change		Average Annual Openings	Median Annual Wage, 2018 ¹	Education and Training Classification		
Title	Code	2018	2028	Number	Percent			Typical Entry-Level Education ²	Work Experience in a Related Occupation ³	Typical on-the-job Training ⁴
Education, Training, and Library Occupations		25-0000	101,050	105,600	4,550	4.5	9,580	\$37,440		
Postsecondary Teachers		25-1000	21,000	22,440	1,440	6.8	1,940	NA		
Business Teachers, Postsecondary	25-1011	1,500	1,670	170	11.1	150	\$56,590	Doctoral or professional degree	None	None
Computer Science Teachers, Postsecondary	25-1021	420	440	20	4.3	40	\$63,780	Doctoral or professional degree	None	None
Mathematical Science Teachers, Postsecondary	25-1022	710	740	30	4.1	60	\$55,240	Doctoral or professional degree	None	None
Engineering Teachers, Postsecondary	25-1032	640	700	60	8.9	60	\$92,360	Doctoral or professional degree	None	None
Biological Science Teachers, Postsecondary	25-1042	740	810	70	9.3	70	\$70,100	Doctoral or professional degree	None	None
Chemistry Teachers, Postsecondary	25-1052	270	280	10	4.1	20	\$63,890	Doctoral or professional degree	None	None
Environmental Science Teachers, Postsecondary	25-1053	100	110	0	4.0	10	\$68,720	Doctoral or professional degree	None	None
Physics Teachers, Postsecondary	25-1054	140	140	10	4.4	10	\$76,910	Doctoral or professional degree	None	None
Economics Teachers, Postsecondary	25-1063	170	170	10	4.2	20	NA	Doctoral or professional degree	None	None
Political Science Teachers, Postsecondary	25-1065	200	210	10	4.5	20	\$66,270	Doctoral or professional degree	None	None
Psychology Teachers, Postsecondary	25-1066	530	580	50	9.6	50	\$56,820	Doctoral or professional degree	None	None
Sociology Teachers, Postsecondary	25-1067	210	220	10	6.3	20	\$61,800	Doctoral or professional degree	None	None
Health Specialties Teachers, Postsecondary	25-1071	1,460	1,740	280	19.5	160	\$63,950	Doctoral or professional degree	Less than 5 years	None
Nursing Instructors and Teachers, Postsecondary	25-1072	680	820	140	20.6	80	\$57,680	Doctoral or professional degree	Less than 5 years	None
Education Teachers, Postsecondary	25-1081	760	790	30	4.4	70	\$51,090	Doctoral or professional degree	Less than 5 years	None
Library Science Teachers, Postsecondary	25-1082	140	150	0	2.8	10	\$61,780	Doctoral or professional degree	None	None
Law Teachers, Postsecondary	25-1112	300	310	20	6.1	30	NA	Doctoral or professional degree	Less than 5 years	None
Art, Drama, and Music Teachers, Postsecondary	25-1121	1,130	1,190	60	5.0	100	\$54,660	Master's degree	None	None
Communications Teachers, Postsecondary	25-1122	460	470	10	3.1	40	\$40,480	Doctoral or professional degree	None	None
English Language and Literature Teachers, Postsecondary	25-1123	870	920	40	4.9	80	\$47,500	Doctoral or professional degree	None	None
Foreign Language and Literature Teachers, Postsecondary	25-1124	210	220	10	5.3	20	\$50,380	Doctoral or professional degree	None	None
History Teachers, Postsecondary	25-1125	240	250	10	4.1	20	\$62,010	Doctoral or professional degree	None	None
Philosophy and Religion Teachers, Postsecondary	25-1126	460	490	30	5.9	40	\$52,980	Doctoral or professional degree	None	None
Graduate Teaching Assistants	25-1191	2,160	2,190	30	1.2	180	\$19,510	Bachelor's degree	None	None
Home Economics Teachers, Postsecondary	25-1192	90	90	0	1.1	10	\$65,490	Master's degree	None	None
Recreation and Fitness Studies Teachers, Postsecondary	25-1193	190	200	10	4.1	20	\$45,590	Doctoral or professional degree	None	None
Vocational Education Teachers, Postsecondary	25-1194	2,930	3,150	220	7.5	270	\$54,270	Bachelor's degree	Less than 5 years	None
Postsecondary Teachers, All Other	25-1199	2,020	2,080	50	2.7	180	\$69,380	Doctoral or professional degree	None	None
Preschool, Primary, Secondary, and Special Education School Teachers		25-2000	49,740	51,570	1,830	3.7	4,120	NA		
Preschool Teachers, Except Special Education	25-2011	6,680	7,290	610	9.1	760	\$27,440	Associate's degree	None	None
Kindergarten Teachers, Except Special Education	25-2012	2,020	2,080	60	3.0	210	\$38,190	Bachelor's degree	None	None
Elementary School Teachers, Except Special Education	25-2021	17,340	17,830	490	2.8	1,350	\$38,620	Bachelor's degree	None	None
Middle School Teachers, Except Special and Career/Technical Education	25-2022	7,330	7,540	220	2.9	570	\$39,950	Bachelor's degree	None	None
Career/Technical Education Teachers, Middle School	25-2023	200	210	10	2.5	20	\$38,700	Bachelor's degree	Less than 5 years	None
Secondary School Teachers, Except Special and Career/Technical Education	25-2031	11,090	11,420	330	3.0	820	\$41,280	Bachelor's degree	None	None
Career/Technical Education Teachers, Secondary School	25-2032	710	730	10	1.8	50	\$44,770	Bachelor's degree	Less than 5 years	None
Special Education Teachers, Preschool	25-2051	90	100	10	5.3	10	\$40,750	Bachelor's degree	None	None
Special Education Teachers, Kindergarten and Elementary School	25-2052	2,040	2,080	40	2.0	160	\$41,790	Bachelor's degree	None	None
Special Education Teachers, Middle School	25-2053	920	940	20	2.1	70	\$41,810	Bachelor's degree	None	None
Special Education Teachers, Secondary School	25-2054	1,180	1,210	30	2.4	90	\$43,560	Bachelor's degree	None	None
Special Education Teachers, All Other	25-2059	140	150	10	8.7	10	\$36,270	Bachelor's degree	None	None
Other Teachers and Instructors		25-3000	12,340	12,990	660	5.3	1,510	NA		
Adult Basic and Secondary Education and Literacy Teachers and Instructors	25-3011	930	870	-70	-7.2	100	\$40,330	Bachelor's degree	None	None
Self-Enrichment Education Teachers	25-3021	2,320	2,640	320	13.6	320	\$30,130	High school diploma or equivalent	Less than 5 years	None
Teachers and Instructors, All Other, Except Substitute Teachers	25-3097	2,980	3,200	220	7.3	380	\$33,920	Bachelor's degree	None	None
Substitute Teachers	25-3098	6,090	6,280	190	3.1	720	\$19,140	Bachelor's degree	None	None
Librarians, Curators, and Archivists		25-4000	3,290	3,410	120	3.6	410	NA		
Archivists	25-4011	90	100	10	10.9	10	\$41,080	Master's degree	None	None
Curators	25-4012	190	220	30	15.5	30	\$44,540	Master's degree	None	None
Museum Technicians and Conservators	25-4013	120	150	30	24.6	20	\$30,770	Bachelor's degree	None	None
Librarians	25-4021	1,710	1,800	90	5.4	180	\$43,610	Master's degree	None	None
Library Technicians	25-4031	1,190	1,150	-40	-3.4	180	\$25,780	Postsecondary non-degree award	None	None
Other Education, Training, and Library Occupations		25-9000	14,680	15,180	500	3.4	1,600	NA		
Audio-Visual and Multimedia Collections Specialists	25-9011	150	160	0	2.6	10	\$37,970	Bachelor's degree	Less than 5 years	None
Farm and Home Management Advisors	25-9021	190	190	0	0.0	20	\$45,000	Master's degree	None	None
Instructional Coordinators	25-9031	1,460	1,530	70	4.9	150	\$53,660	Master's degree	5 years or more	None
Teacher Assistants	25-9041	12,490	12,900	420	3.3	1,380	\$18,580	Some college, no degree	None	None
Education, Training, and Library Workers, All Other	25-9099	400	410	10	2.5	40	\$38,970	Bachelor's degree	None	None
Arts, Design, Entertainment, Sports, and Media Occupations		27-0000	22,670	23,110	450	2.0	2,590	\$36,480		
Art and Design Workers	27-1000	6,570	6,560	-10	-0.1	660	NA			

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Occupation		Employment		Employment Change		Average Annual Openings	Median Annual Wage, 2018 ¹	Education and Training Classification			
Title	Code	2018	2028	Number	Percent			Typical Entry-Level Education ²	Work Experience in a Related Occupation ³	Typical on-the-job Training ⁴	
Art Directors	27-1011	350	350	0	0.0	40	\$62,770	Bachelor's degree	5 years or more	None	
Fine Artists, Including Painters, Sculptors, and Illustrators	27-1013	80	70	0	-2.7	10	\$67,440	Bachelor's degree	None	Long-term on-the-job training	
Multimedia Artists and Animators	27-1014	230	230	10	2.7	30	\$53,520	Bachelor's degree	None	None	
Commercial and Industrial Designers	27-1021	310	330	20	5.8	30	\$61,800	Bachelor's degree	None	None	
Floral Designers	27-1023	740	620	-120	-16.3	60	\$24,350	High school diploma or equivalent	None	Moderate-term on-the-job training	
Graphic Designers	27-1024	2,260	2,300	40	1.8	230	\$38,280	Bachelor's degree	None	None	
Interior Designers	27-1025	660	670	10	1.7	70	\$45,680	Bachelor's degree	None	None	
Merchandise Displayers and Window Trimmers	27-1026	1,600	1,630	20	1.4	160	\$26,710	High school diploma or equivalent	None	Short-term on-the-job training	
Set and Exhibit Designers	27-1027	120	130	10	5.7	10	\$43,670	Bachelor's degree	None	None	
Entertainers and Performers, Sports and Related Workers	27-2000	5,580	5,890	300	5.4	800	NA				
Producers and Directors	27-2012	680	680	0	0.3	70	\$49,080	Bachelor's degree	Less than 5 years	None	
Athletes and Sports Competitors	27-2021	320	350	30	8.8	50	NA	No formal educational credential	None	Long-term on-the-job training	
Coaches and Scouts	27-2022	2,920	3,170	250	8.7	470	\$31,470	Bachelor's degree	None	None	
Umpires, Referees, and Other Sports Officials	27-2023	190	200	10	6.8	30	\$18,840	High school diploma or equivalent	None	Moderate-term on-the-job training	
Music Directors and Composers	27-2041	310	310	0	0.0	40	\$34,080	Bachelor's degree	Less than 5 years	None	
Musicians and Singers	27-2042	770	770	-10	-0.9	90	NA	No formal educational credential	None	Long-term on-the-job training	
Entertainers and Performers, Sports and Related Workers, All Other	27-2099	180	180	10	3.4	20	NA	No formal educational credential	None	Short-term on-the-job training	
Media and Communication Workers	27-3000	7,480	7,590	100	1.4	810	NA				
Radio and Television Announcers	27-3011	430	380	-50	-10.7	40	\$26,270	Bachelor's degree	None	None	
Broadcast News Analysts	27-3021	110	110	0	-3.5	10	NA	Bachelor's degree	None	None	
Reporters and Correspondents	27-3022	560	480	-80	-14.7	60	\$34,980	Bachelor's degree	None	None	
Public Relations Specialists	27-3031	3,090	3,260	170	5.4	350	\$47,340	Bachelor's degree	None	None	
Editors	27-3041	1,010	950	-60	-6.1	100	\$39,240	Bachelor's degree	Less than 5 years	None	
Technical Writers	27-3042	780	850	70	9.4	90	\$55,910	Bachelor's degree	Less than 5 years	Short-term on-the-job training	
Writers and Authors	27-3043	690	690	0	-0.4	70	\$48,190	Bachelor's degree	None	Long-term on-the-job training	
Interpreters and Translators	27-3091	700	760	60	8.0	80	\$30,200	Bachelor's degree	None	None	
Media and Communication Equipment Workers	27-4000	3,030	3,080	50	1.6	320	NA				
Audio and Video Equipment Technicians	27-4011	950	1,080	120	13.0	120	\$35,110	Postsecondary non-degree award	None	Short-term on-the-job training	
Broadcast Technicians	27-4012	270	260	-10	-3.0	30	\$29,640	Associate's degree	None	Short-term on-the-job training	
Sound Engineering Technicians	27-4014	130	130	0	-1.6	10	NA	Postsecondary non-degree award	None	Short-term on-the-job training	
Photographers	27-4021	1,020	930	-90	-8.8	90	\$31,330	High school diploma or equivalent	None	Moderate-term on-the-job training	
Camera Operators, Television, Video, and Motion Picture	27-4031	400	410	10	2.3	40	\$38,350	Bachelor's degree	None	None	
Film and Video Editors	27-4032	190	210	20	8.8	20	\$39,030	Bachelor's degree	None	None	
Healthcare Practitioners and Technical Occupations	29-0000	112,490	121,430	8,940	7.9	7,630	\$55,950				
Health Diagnosing and Treating Practitioners	29-1000	64,320	70,330	6,010	9.3	3,860	NA				
Chiropractors	29-1011	530	540	10	2.3	20	\$58,530	Doctoral or professional degree	None	None	
Dentists, General	29-1021	1,120	1,140	20	1.9	40	\$128,780	Doctoral or professional degree	None	None	
Orthodontists	29-1023	150	160	0	1.3	0	NA	Doctoral or professional degree	None	Internship/residency	
Dentists, All Other Specialists	29-1029	60	60	0	0.0	0	\$119,690	Doctoral or professional degree	None	Internship/residency	
Dietitians and Nutritionists	29-1031	950	1,040	90	9.3	70	\$55,770	Bachelor's degree	None	Internship/residency	
Optometrists	29-1041	710	730	20	3.0	20	\$87,780	Doctoral or professional degree	None	None	
Pharmacists	29-1051	3,730	3,740	10	0.1	170	\$119,120	Doctoral or professional degree	None	None	
Family and General Practitioners	29-1062	3,260	3,360	100	3.1	110	NA	Doctoral or professional degree	None	Internship/residency	
Internists, General	29-1063	440	440	-10	-1.4	10	NA	Doctoral or professional degree	None	Internship/residency	
Obstetricians and Gynecologists	29-1064	60	60	0	1.6	0	NA	Doctoral or professional degree	None	Internship/residency	
Psychiatrists	29-1066	310	330	10	4.5	10	\$187,960	Doctoral or professional degree	None	Internship/residency	
Surgeons	29-1067	270	260	-10	-4.0	10	NA	Doctoral or professional degree	None	Internship/residency	
Physicians and Surgeons, All Other	29-1069	3,100	3,190	90	2.9	100	\$114,570	Doctoral or professional degree	None	Internship/residency	
Physician Assistants	29-1071	1,550	1,910	360	23.4	130	\$103,860	Master's degree	None	None	
Podiatrists	29-1081	60	60	0	0.0	0	\$121,280	Doctoral or professional degree	None	Internship/residency	
Occupational Therapists	29-1122	1,000	1,130	140	13.6	70	\$83,590	Master's degree	None	None	
Physical Therapists	29-1123	2,700	3,110	420	15.5	160	\$86,680	Doctoral or professional degree	None	None	
Radiation Therapists	29-1124	370	390	20	5.4	20	\$72,930	Associate's degree	None	None	
Recreational Therapists	29-1125	250	250	10	2.4	10	\$35,650	Bachelor's degree	None	None	
Respiratory Therapists	29-1126	1,750	2,080	330	18.6	130	\$54,580	Associate's degree	None	None	
Speech-Language Pathologists	29-1127	1,930	2,440	510	26.3	170	\$66,300	Master's degree	None	Internship/residency	
Exercise Physiologists	29-1128	220	230	20	7.0	10	\$40,010	Bachelor's degree	None	None	
Therapists, All Other	29-1129	120	140	20	17.2	10	\$62,310	Bachelor's degree	None	None	
Veterinarians	29-1131	1,270	1,480	200	16.0	70	\$79,340	Doctoral or professional degree	None	None	
Registered Nurses	29-1141	35,490	38,720	3,240	9.1	2,310	\$61,750	Bachelor's degree	None	None	
Nurse Anesthetists	29-1151	270	310	30	11.7	20	\$170,390	Master's degree	None	None	
Nurse Practitioners	29-1171	1,800	2,150	350	19.4	140	\$104,310	Master's degree	None	None	

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Occupation	Employment		Employment Change		Average Annual Openings	Median Annual Wage, 2018 ¹	Education and Training Classification				
	Title	Code	2018	2028			Number	Percent	Typical Entry-Level Education ²	Work Experience in a Related Occupation ³	Typical on-the-job Training ⁴
Health Diagnosing and Treating Practitioners, All Other		29-1199	200	220	10	6.4	10	\$62,710	Master's degree	None	None
Health Technologists and Technicians		29-2000	45,450	48,160	2,710	6.0	3,580	NA			
Clinical Laboratory Technologists and Technicians		29-2010	4,480	4,820	340	7.6	330	\$46,720	Bachelor's degree	None	None
Dental Hygienists		29-2021	2,360	2,450	90	3.6	170	\$77,180	Associate's degree	None	None
Cardiovascular Technologists and Technicians		29-2031	700	720	20	2.9	40	\$36,550	Associate's degree	None	None
Diagnostic Medical Sonographers		29-2032	990	1,120	130	13.1	70	\$68,920	Associate's degree	None	None
Nuclear Medicine Technologists		29-2033	290	290	10	3.2	20	\$72,960	Associate's degree	None	None
Radiologic Technologists		29-2034	2,980	3,110	130	4.4	180	\$54,290	Associate's degree	None	None
Magnetic Resonance Imaging Technologists		29-2035	490	510	20	4.3	30	\$64,470	Associate's degree	Less than 5 years	None
Emergency Medical Technicians and Paramedics		29-2041	3,750	3,940	190	5.1	280	\$30,480	Postsecondary non-degree award	None	None
Dietetic Technicians		29-2051	770	790	20	2.2	60	\$23,010	Associate's degree	None	None
Pharmacy Technicians		29-2052	4,980	5,310	330	6.6	450	\$29,530	High school diploma or equivalent	None	Moderate-term on-the-job training
Psychiatric Technicians		29-2053	840	910	70	8.7	80	\$24,750	Postsecondary non-degree award	Less than 5 years	Short-term on-the-job training
Surgical Technologists		29-2055	1,820	1,890	70	3.7	160	\$39,910	Postsecondary non-degree award	None	None
Veterinary Technologists and Technicians		29-2056	1,140	1,330	190	16.7	120	\$27,510	Associate's degree	None	None
Ophthalmic Medical Technicians		29-2057	610	670	60	9.7	60	\$33,720	Postsecondary non-degree award	None	None
Licensed Practical and Licensed Vocational Nurses		29-2061	12,780	13,510	730	5.7	1,070	\$41,100	Postsecondary non-degree award	None	None
Medical Records and Health Information Technicians		29-2071	3,750	4,010	260	6.9	270	\$35,260	Postsecondary non-degree award	None	None
Opticians, Dispensing		29-2081	810	810	10	0.9	70	\$30,410	High school diploma or equivalent	None	Long-term on-the-job training
Orthotists and Prosthetists		29-2091	90	110	10	12.9	10	\$56,680	Master's degree	None	Internship/residency
Health Technologists and Technicians, All Other		29-2099	1,390	1,570	180	13.0	120	\$40,660	Postsecondary non-degree award	None	None
Other Healthcare Practitioners and Technical Occupations		29-9000	2,720	2,930	220	8.0	180	NA			
Occupational Health and Safety Specialists		29-9011	1,730	1,850	120	6.8	110	\$65,120	Bachelor's degree	None	None
Athletic Trainers		29-9091	380	460	80	20.9	30	\$46,820	Bachelor's degree	None	None
Healthcare Practitioners and Technical Workers, All Other		29-9099	330	330	10	2.1	20	\$32,790	Postsecondary non-degree award	None	None
Healthcare Support Occupations		31-0000	50,220	56,170	5,950	11.8	6,660	\$26,550			
Nursing, Psychiatric, and Home Health Aides		31-1000	27,990	31,260	3,270	11.7	3,650	NA			
Home Health Aides		31-1011	7,340	9,540	2,200	29.9	1,170	\$22,020	High school diploma or equivalent	None	Short-term on-the-job training
Psychiatric Aides		31-1013	1,260	1,480	220	17.8	180	\$20,190	High school diploma or equivalent	None	Short-term on-the-job training
Nursing Assistants		31-1014	18,700	19,540	840	4.5	2,230	\$24,530	Postsecondary non-degree award	None	None
Orderlies		31-1015	690	710	20	2.6	80	\$23,870	High school diploma or equivalent	None	Short-term on-the-job training
Occupational Therapy and Physical Therapist Assistants and Aides		31-2000	3,050	3,670	620	20.3	470	NA			
Occupational Therapy Assistants		31-2011	700	890	190	27.0	110	\$60,310	Associate's degree	None	None
Physical Therapist Assistants		31-2021	1,560	1,860	300	19.1	240	\$60,200	Associate's degree	None	None
Physical Therapist Aides		31-2022	680	800	120	17.6	100	\$20,010	High school diploma or equivalent	None	Short-term on-the-job training
Other Healthcare Support Occupations		31-9000	19,180	21,230	2,050	10.7	2,550	NA			
Massage Therapists		31-9011	550	660	110	20.6	80	\$39,870	Postsecondary non-degree award	None	None
Dental Assistants		31-9091	4,090	4,260	170	4.1	480	\$36,180	Postsecondary non-degree award	None	None
Medical Assistants		31-9092	8,880	10,270	1,390	15.6	1,190	\$30,200	Postsecondary non-degree award	None	None
Medical Equipment Preparers		31-9093	870	910	30	3.7	100	\$30,250	High school diploma or equivalent	None	Moderate-term on-the-job training
Medical Transcriptionists		31-9094	430	370	-60	-13.8	50	\$36,950	Postsecondary non-degree award	None	None
Pharmacy Aides		31-9095	890	730	-160	-17.9	90	\$22,860	High school diploma or equivalent	None	Short-term on-the-job training
Veterinary Assistants and Laboratory Animal Caretakers		31-9096	1,540	1,810	270	17.4	300	\$24,210	High school diploma or equivalent	None	Short-term on-the-job training
Phlebotomists		31-9097	1,480	1,760	290	19.3	200	\$30,360	Postsecondary non-degree award	None	None
Healthcare Support Workers, All Other		31-9099	440	460	20	4.5	50	\$40,060	High school diploma or equivalent	None	None
Protective Service Occupations		33-0000	40,320	41,870	1,550	3.9	4,330	\$35,490			
Supervisors of Protective Service Workers		33-1000	5,360	5,690	330	6.2	420	NA			
First-Line Supervisors of Correctional Officers		33-1011	270	240	-30	-10.7	20	\$60,580	High school diploma or equivalent	Less than 5 years	None
First-Line Supervisors of Police and Detectives		33-1012	2,660	2,900	240	9.0	200	\$73,320	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
First-Line Supervisors of Fire Fighting and Prevention Workers		33-1021	1,230	1,340	110	9.1	90	\$76,900	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training
First-Line Supervisors of Protective Service Workers, All Other		33-1099	1,200	1,210	10	0.9	120	\$38,750	High school diploma or equivalent	Less than 5 years	None
Fire Fighting and Prevention Workers		33-2000	4,220	4,600	390	9.2	350	NA			
Firefighters		33-2011	3,990	4,360	370	9.2	320	\$41,970	Postsecondary non-degree award	None	Long-term on-the-job training
Law Enforcement Workers		33-3000	14,140	14,400	260	1.9	1,100	NA			
Bailliffs		33-3011	90	90	0	0.0	10	\$31,050	High school diploma or equivalent	None	Moderate-term on-the-job training
Correctional Officers and Jailers		33-3012	4,510	4,160	-350	-7.7	350	\$31,910	High school diploma or equivalent	None	Moderate-term on-the-job training
Detectives and Criminal Investigators		33-3021	890	890	0	0.2	60	\$57,400	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
Fish and Game Wardens		33-3031	160	150	-10	-3.8	10	\$50,340	Bachelor's degree	None	Moderate-term on-the-job training
Police and Sheriff's Patrol Officers		33-3051	8,430	9,060	630	7.5	680	\$43,070	High school diploma or equivalent	None	Moderate-term on-the-job training
Other Protective Service Workers		33-9000	16,610	17,180	570	3.4	2,470	NA			
Animal Control Workers		33-9011	350	380	30	9.5	40	\$29,500	High school diploma or equivalent	None	Moderate-term on-the-job training
Private Detectives and Investigators		33-9021	320	350	30	9.7	30	\$37,220	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training

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Occupation		Employment		Employment Change		Average Annual Openings	Median Annual Wage, 2018 ¹	Education and Training Classification			
Title	Code	2018	2028	Number	Percent			Typical Entry-Level Education ²	Work Experience in a Related Occupation ³	Typical on-the-job Training ⁴	
Gaming Surveillance Officers and Gaming Investigators	33-9031	1,590	1,660	80	4.9	220	\$27,650	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	
Security Guards	33-9032	11,570	11,820	250	2.2	1,530	\$27,130	High school diploma or equivalent	None	Short-term on-the-job training	
Crossing Guards	33-9091	260	270	10	3.9	40	\$19,420	No formal educational credential	None	Short-term on-the-job training	
Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	33-9092	1,650	1,800	140	8.7	430	\$18,570	No formal educational credential	None	Short-term on-the-job training	
Transportation Security Screeners	33-9093	280	280	0	0.4	30	\$38,020	High school diploma or equivalent	None	Short-term on-the-job training	
Protective Service Workers, All Other	33-9099	590	620	20	4.0	150	\$32,690	High school diploma or equivalent	None	Short-term on-the-job training	
Food Preparation and Serving Related Occupations	35-0000	163,000	179,690	16,680	10.2	30,590	\$19,350				
Supervisors of Food Preparation and Serving Workers	35-1000	17,110	19,120	2,020	11.8	2,940	NA				
Chefs and Head Cooks	35-1011	1,190	1,320	140	11.4	180	\$42,140	High school diploma or equivalent	5 years or more	None	
First-Line Supervisors of Food Preparation and Serving Workers	35-1012	15,920	17,800	1,880	11.8	2,760	\$25,960	High school diploma or equivalent	Less than 5 years	None	
Cooks and Food Preparation Workers	35-2000	55,290	59,300	4,010	7.3	8,780	NA				
Cooks, Fast Food	35-2011	15,010	13,970	-1,040	-6.9	1,950	\$18,720	No formal educational credential	None	Short-term on-the-job training	
Cooks, Institution and Cafeteria	35-2012	10,000	10,310	310	3.1	1,470	\$20,220	No formal educational credential	None	Short-term on-the-job training	
Cooks, Restaurant	35-2014	17,180	21,130	3,950	23.0	3,110	\$23,630	No formal educational credential	Less than 5 years	Moderate-term on-the-job training	
Cooks, Short Order	35-2015	4,520	4,550	20	0.5	640	\$19,380	No formal educational credential	None	Short-term on-the-job training	
Food Preparation Workers	35-2021	8,430	9,190	760	9.0	1,600	\$19,880	No formal educational credential	None	Short-term on-the-job training	
Food and Beverage Serving Workers	35-3000	76,260	85,580	9,320	12.2	15,890	NA				
Bartenders	35-3011	6,850	7,400	560	8.1	1,310	\$18,710	No formal educational credential	None	Short-term on-the-job training	
Combined Food Preparation and Serving Workers, Including Fast Food	35-3021	32,440	38,450	6,000	18.5	6,910	\$18,520	No formal educational credential	None	Short-term on-the-job training	
Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	35-3022	4,690	4,950	260	5.6	1,070	\$18,760	No formal educational credential	None	Short-term on-the-job training	
Waiters and Waitresses	35-3031	29,920	32,220	2,300	7.7	6,190	\$18,480	No formal educational credential	None	Short-term on-the-job training	
Food Servers, Nonrestaurant	35-3041	2,360	2,550	190	8.1	400	\$19,720	No formal educational credential	None	Short-term on-the-job training	
Other Food Preparation and Serving Related Workers	35-9000	14,350	15,690	1,340	9.3	2,980	NA				
Dining Room and Cafeteria Attendants and Bartender Helpers	35-9011	4,400	4,880	480	11.0	840	\$18,940	No formal educational credential	None	Short-term on-the-job training	
Dishwashers	35-9021	4,410	4,600	190	4.3	740	\$19,930	No formal educational credential	None	Short-term on-the-job training	
Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	35-9031	5,370	6,020	650	12.1	1,370	\$18,780	No formal educational credential	None	Short-term on-the-job training	
Food Preparation and Serving Related Workers, All Other	35-9099	180	190	10	8.0	30	\$21,230	No formal educational credential	None	Short-term on-the-job training	
Building and Grounds Cleaning and Maintenance Occupations	37-0000	54,520	57,750	3,240	5.9	7,620	\$23,050				
Supervisors of Building and Grounds Cleaning and Maintenance Workers	37-1000	5,270	5,690	420	7.9	650	NA				
First-Line Supervisors of Housekeeping and Janitorial Workers	37-1011	2,670	2,860	190	7.1	330	\$33,200	High school diploma or equivalent	Less than 5 years	None	
First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	37-1012	2,600	2,830	230	8.8	320	\$41,440	High school diploma or equivalent	Less than 5 years	None	
Building Cleaning and Pest Control Workers	37-2000	36,860	38,580	1,720	4.7	5,190	NA				
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	37-2011	22,060	23,430	1,370	6.2	3,130	\$22,510	No formal educational credential	None	Short-term on-the-job training	
Maids and Housekeeping Cleaners	37-2012	13,710	14,000	290	2.1	1,900	\$20,070	No formal educational credential	None	Short-term on-the-job training	
Grounds Maintenance Workers	37-3000	12,390	13,480	1,090	8.8	1,780	NA				
Landscaping and Groundskeeping Workers	37-3011	10,820	11,770	960	8.8	1,560	\$25,930	No formal educational credential	None	Short-term on-the-job training	
Tree Trimmers and Pruners	37-3013	1,050	1,150	100	9.2	150	\$28,300	High school diploma or equivalent	None	Short-term on-the-job training	
Personal Care and Service Occupations	39-0000	59,050	68,110	9,060	15.3	10,460	\$20,270				
Supervisors of Personal Care and Service Workers	39-1000	4,070	4,470	400	9.7	560	NA				
First-Line Supervisors of Gaming Workers	39-1010	1,560	1,680	120	7.8	270	\$36,120	High school diploma or equivalent	Less than 5 years	None	
First-Line Supervisors of Personal Service Workers	39-1021	2,510	2,790	270	10.9	280	\$27,960	High school diploma or equivalent	Less than 5 years	None	
Animal Care and Service Workers	39-2000	3,560	4,060	510	14.3	660	NA				
Animal Trainers	39-2011	520	580	60	10.7	90	\$27,610	High school diploma or equivalent	None	Moderate-term on-the-job training	
Nonfarm Animal Caretakers	39-2021	3,030	3,480	450	14.9	570	\$22,050	High school diploma or equivalent	None	Short-term on-the-job training	
Entertainment Attendants and Related Workers	39-3000	6,780	7,230	450	6.7	1,470	NA				
Gaming Dealers	39-3011	2,000	2,080	80	3.9	320	\$18,740	High school diploma or equivalent	None	Short-term on-the-job training	
Motion Picture Projectionists	39-3021	120	110	-10	-8.7	20	\$18,830	No formal educational credential	None	Short-term on-the-job training	
Ushers, Lobby Attendants, and Ticket Takers	39-3031	1,710	1,830	120	7.3	440	\$18,560	No formal educational credential	None	Short-term on-the-job training	
Amusement and Recreation Attendants	39-3091	1,920	2,130	210	11.2	490	\$18,830	No formal educational credential	None	Short-term on-the-job training	
Locker Room, Coatroom, and Dressing Room Attendants	39-3093	370	400	30	8.2	90	\$18,980	High school diploma or equivalent	None	Short-term on-the-job training	
Funeral Service Workers	39-4000	1,190	1,210	20	1.6	180	NA				
Embalmers	39-4011	130	120	0	-3.1	20	\$48,080	Associate's degree	None	Long-term on-the-job training	
Funeral Attendants	39-4021	620	630	10	2.3	100	\$22,680	High school diploma or equivalent	None	Short-term on-the-job training	
Morticians, Undertakers, and Funeral Directors	39-4031	450	450	10	2.0	60	\$50,080	Associate's degree	None	Long-term on-the-job training	
Personal Appearance Workers	39-5000	6,800	7,330	530	7.8	920	NA				
Hairdressers, Hairstylists, and Cosmetologists	39-5012	5,620	6,040	430	7.6	770	\$22,530	Postsecondary non-degree award	None	None	
Skincare Specialists	39-5094	200	220	20	11.7	30	\$36,560	Postsecondary non-degree award	None	None	
Baggage Porters, Bellhops, and Concierges	39-6000	680	730	50	7.5	110	NA				
Baggage Porters and Bellhops	39-6011	290	320	20	7.1	50	\$18,780	High school diploma or equivalent	None	Short-term on-the-job training	
Concierges	39-6012	390	420	30	7.8	60	\$24,220	High school diploma or equivalent	None	Moderate-term on-the-job training	
Tour and Travel Guides	39-7000	250	300	50	20.7	50	NA				
Tour and Travel Guides	39-7010	250	300	50	20.7	50	\$24,220	High school diploma or equivalent	None	Moderate-term on-the-job training	

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Occupation		Employment		Employment Change		Average Annual Openings	Median Annual Wage, 2018 ¹	Education and Training Classification			
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Other Personal Care and Service Workers		39-9000	35,730	42,780	7,050	19.7	6,520	NA			
Childcare Workers	39-9011	11,840	12,680	840	7.1	1,910	\$19,290	High school diploma or equivalent	None	Short-term on-the-job training	
Personal Care Aides	39-9021	15,480	20,870	5,390	34.8	3,070	\$19,280	High school diploma or equivalent	None	Short-term on-the-job training	
Fitness Trainers and Aerobics Instructors	39-9031	3,950	4,440	490	12.4	750	\$34,990	High school diploma or equivalent	None	Short-term on-the-job training	
Recreation Workers	39-9032	3,330	3,530	210	6.2	590	\$23,830	High school diploma or equivalent	None	Short-term on-the-job training	
Sales and Related Occupations		41-0000	180,190	180,080	-120	-0.1	25,270	\$24,890			
Supervisors of Sales Workers		41-1000	26,960	26,590	-370	-1.4	2,840	NA			
First-Line Supervisors of Retail Sales Workers	41-1011	22,000	21,750	-240	-1.1	2,380	\$35,150	High school diploma or equivalent	Less than 5 years	None	
First-Line Supervisors of Non-Retail Sales Workers	41-1012	4,960	4,840	-130	-2.5	460	\$61,220	High school diploma or equivalent	Less than 5 years	None	
Retail Sales Workers		41-2000	105,030	103,960	-1,080	-1.0	16,950	NA			
Cashiers	41-2011	44,520	43,500	-1,010	-2.3	8,200	\$19,640	No formal educational credential	None	Short-term on-the-job training	
Gaming Change Persons and Booth Cashiers	41-2012	1,760	1,830	70	4.0	350	\$21,490	No formal educational credential	None	Short-term on-the-job training	
Counter and Rental Clerks	41-2021	3,550	3,710	160	4.5	480	\$24,880	No formal educational credential	None	Short-term on-the-job training	
Parts Salespersons	41-2022	3,520	3,400	-120	-3.4	410	\$30,180	No formal educational credential	None	Moderate-term on-the-job training	
Retail Salespersons	41-2031	51,690	51,510	-180	-0.3	7,520	\$22,730	No formal educational credential	None	Short-term on-the-job training	
Sales Representatives, Services		41-3000	17,830	18,640	810	4.5	2,170	NA			
Advertising Sales Agents	41-3011	950	890	-70	-6.8	120	\$43,070	High school diploma or equivalent	None	Moderate-term on-the-job training	
Insurance Sales Agents	41-3021	5,680	6,140	450	8.0	620	\$45,930	High school diploma or equivalent	None	Moderate-term on-the-job training	
Securities, Commodities, and Financial Services Sales Agents	41-3031	1,590	1,680	90	5.6	160	\$45,260	Bachelor's degree	None	Moderate-term on-the-job training	
Travel Agents	41-3041	350	340	-10	-4.0	50	\$36,780	High school diploma or equivalent	None	Moderate-term on-the-job training	
Sales Representatives, Services, All Other	41-3099	9,260	9,600	350	3.7	1,230	\$45,260	High school diploma or equivalent	None	Moderate-term on-the-job training	
Sales Representatives, Wholesale and Manufacturing		41-4000	16,700	16,960	260	1.6	1,790	NA			
Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	41-4011	6,930	7,040	110	1.6	740	\$67,610	Bachelor's degree	None	Moderate-term on-the-job training	
Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	41-4012	9,770	9,920	150	1.6	1,050	\$47,810	High school diploma or equivalent	None	Moderate-term on-the-job training	
Other Sales and Related Workers		41-9000	13,670	13,930	260	1.9	1,520	NA			
Real Estate Brokers	41-9021	1,080	1,160	80	6.9	110	\$32,450	High school diploma or equivalent	Less than 5 years	None	
Real Estate Sales Agents	41-9022	8,560	9,120	560	6.6	900	\$42,290	High school diploma or equivalent	None	Moderate-term on-the-job training	
Sales Engineers	41-9031	300	300	0	-1.0	30	\$95,910	Bachelor's degree	None	Moderate-term on-the-job training	
Telemarketers	41-9041	1,790	1,420	-370	-20.7	220	\$25,150	No formal educational credential	None	Short-term on-the-job training	
Door-to-Door Sales Workers, News and Street Vendors, and Related Workers	41-9091	620	570	-50	-8.4	70	\$36,750	No formal educational credential	None	Short-term on-the-job training	
Office and Administrative Support Occupations		43-0000	274,280	264,540	-9,730	-3.5	30,490	\$31,930			
Supervisors of Office and Administrative Support Workers		43-1000	23,130	22,580	-550	-2.4	2,340	NA			
First-Line Supervisors of Office and Administrative Support Workers	43-1011	23,130	22,580	-550	-2.4	2,340	\$48,030	High school diploma or equivalent	Less than 5 years	None	
Communications Equipment Operators		43-2000	780	580	-200	-25.7	60	NA			
Switchboard Operators, Including Answering Service	43-2011	740	550	-200	-26.7	60	\$26,600	High school diploma or equivalent	None	Short-term on-the-job training	
Financial Clerks		43-3000	46,770	45,020	-1,750	-3.7	5,160	NA			
Bill and Account Collectors	43-3011	4,460	4,150	-310	-6.9	480	\$34,140	High school diploma or equivalent	None	Moderate-term on-the-job training	
Billing and Posting Clerks	43-3021	5,600	6,030	430	7.8	670	\$33,630	High school diploma or equivalent	None	Moderate-term on-the-job training	
Bookkeeping, Accounting, and Auditing Clerks	43-3031	24,590	23,670	-930	-3.8	2,720	\$37,190	Some college, no degree	None	Moderate-term on-the-job training	
Gaming Cage Workers	43-3041	1,340	1,390	50	3.6	190	\$23,600	High school diploma or equivalent	None	Short-term on-the-job training	
Payroll and Timekeeping Clerks	43-3051	2,440	2,340	-90	-3.8	250	\$39,340	High school diploma or equivalent	None	Moderate-term on-the-job training	
Procurement Clerks	43-3061	1,330	1,230	-100	-7.2	120	\$41,360	High school diploma or equivalent	None	Moderate-term on-the-job training	
Tellers	43-3071	6,950	6,150	-810	-11.6	710	\$25,130	High school diploma or equivalent	None	Short-term on-the-job training	
Financial Clerks, All Other	43-3099	60	60	0	0.0	10	\$42,220	High school diploma or equivalent	None	Short-term on-the-job training	
Information and Record Clerks		43-4000	64,790	64,260	-530	-0.8	8,220	NA			
Correspondence Clerks	43-4021	100	100	0	-1.0	10	\$36,820	High school diploma or equivalent	None	Short-term on-the-job training	
Court, Municipal, and License Clerks	43-4031	2,810	3,040	230	8.0	290	\$29,090	High school diploma or equivalent	None	Long-term on-the-job training	
Credit Authorizers, Checkers, and Clerks	43-4041	370	350	-20	-4.9	30	\$34,790	High school diploma or equivalent	None	Moderate-term on-the-job training	
Customer Service Representatives	43-4051	31,510	30,950	-560	-1.8	4,110	\$30,410	High school diploma or equivalent	None	Short-term on-the-job training	
Eligibility Interviewers, Government Programs	43-4061	990	1,010	20	2.4	100	\$42,260	High school diploma or equivalent	None	Moderate-term on-the-job training	
File Clerks	43-4071	1,670	1,430	-250	-14.6	170	\$30,000	High school diploma or equivalent	None	Short-term on-the-job training	
Hotel, Motel, and Resort Desk Clerks	43-4081	3,140	2,990	-150	-4.7	500	\$20,110	High school diploma or equivalent	None	Short-term on-the-job training	
Interviewers, Except Eligibility and Loan	43-4111	1,990	1,990	-10	-0.4	240	\$29,970	High school diploma or equivalent	None	Short-term on-the-job training	
Library Assistants, Clerical	43-4121	1,550	1,500	-50	-3.4	230	\$20,440	High school diploma or equivalent	None	Short-term on-the-job training	
Loan Interviewers and Clerks	43-4131	4,280	4,700	420	9.8	500	\$32,210	High school diploma or equivalent	None	Short-term on-the-job training	
New Accounts Clerks	43-4141	1,590	1,490	-100	-6.4	170	\$31,360	High school diploma or equivalent	None	Moderate-term on-the-job training	
Order Clerks	43-4151	1,190	1,090	-100	-8.3	120	\$27,910	Some college, no degree	None	Short-term on-the-job training	
Human Resources Assistants, Except Payroll and Timekeeping	43-4161	1,240	1,170	-80	-6.2	130	\$38,720	Associate's degree	None	None	
Receptionists and Information Clerks	43-4171	9,660	9,720	60	0.6	1,310	\$27,510	High school diploma or equivalent	None	Short-term on-the-job training	
Reservation and Transportation Ticket Agents and Travel Clerks	43-4181	950	950	10	0.7	110	\$34,860	High school diploma or equivalent	None	Short-term on-the-job training	
Information and Record Clerks, All Other	43-4199	1,620	1,670	50	2.8	200	\$38,970	High school diploma or equivalent	None	Short-term on-the-job training	
Material Recording, Scheduling, Dispatching, and Distributing Workers		43-5000	46,740	46,440	-300	-0.6	5,190	NA			

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Cargo and Freight Agents	43-5011	490	550	60	11.3	60	\$43,700	High school diploma or equivalent	None	Short-term on-the-job training	
Couriers and Messengers	43-5021	1,100	1,130	40	3.3	110	\$28,170	High school diploma or equivalent	None	Short-term on-the-job training	
Police, Fire, and Ambulance Dispatchers	43-5031	1,770	1,910	140	8.0	190	\$29,900	High school diploma or equivalent	None	Moderate-term on-the-job training	
Dispatchers, Except Police, Fire, and Ambulance	43-5032	2,400	2,420	10	0.5	230	\$37,650	High school diploma or equivalent	None	Moderate-term on-the-job training	
Meter Readers, Utilities	43-5041	660	620	-50	-7.4	60	\$30,440	High school diploma or equivalent	None	Short-term on-the-job training	
Postal Service Clerks	43-5051	970	790	-170	-17.9	50	\$47,490	High school diploma or equivalent	None	Short-term on-the-job training	
Postal Service Mail Carriers	43-5052	4,060	3,340	-730	-17.9	200	\$47,790	High school diploma or equivalent	None	Short-term on-the-job training	
Postal Service Mail Sorters, Processors, and Processing Machine Operators	43-5053	760	600	-170	-22.0	40	\$58,440	High school diploma or equivalent	None	Short-term on-the-job training	
Production, Planning, and Expediting Clerks	43-5061	6,750	7,060	310	4.6	750	\$47,680	High school diploma or equivalent	None	Moderate-term on-the-job training	
Shipping, Receiving, and Traffic Clerks	43-5071	6,700	6,600	-100	-1.6	650	\$32,580	High school diploma or equivalent	None	Short-term on-the-job training	
Stock Clerks and Order Fillers	43-5081	20,500	20,820	330	1.6	2,780	\$24,020	High school diploma or equivalent	None	Short-term on-the-job training	
Weighers, Measurers, Checkers, and Samplers, Recordkeeping	43-5111	580	610	40	6.3	70	\$38,270	High school diploma or equivalent	None	Short-term on-the-job training	
Secretaries and Administrative Assistants	43-6000	53,850	49,630	-4,220	-7.8	5,370	NA				
Executive Secretaries and Executive Administrative Assistants	43-6011	10,050	7,940	-2,100	-20.9	800	\$41,670	High school diploma or equivalent	Less than 5 years	None	
Legal Secretaries	43-6012	1,570	1,250	-320	-20.6	130	\$36,060	High school diploma or equivalent	None	Moderate-term on-the-job training	
Medical Secretaries	43-6013	10,780	11,980	1,200	11.1	1,390	\$30,960	High school diploma or equivalent	None	Moderate-term on-the-job training	
Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	43-6014	31,450	28,460	-2,990	-9.5	3,050	\$30,590	High school diploma or equivalent	None	Short-term on-the-job training	
Other Office and Administrative Support Workers	43-9000	38,220	36,040	-2,180	-5.7	4,160	NA				
Computer Operators	43-9011	370	270	-100	-26.0	30	\$37,720	High school diploma or equivalent	None	Moderate-term on-the-job training	
Data Entry Keyers	43-9021	2,480	1,920	-570	-22.9	200	\$29,880	High school diploma or equivalent	None	Short-term on-the-job training	
Word Processors and Typists	43-9022	100	60	-30	-34.7	10	\$34,030	High school diploma or equivalent	None	Short-term on-the-job training	
Desktop Publishers	43-9031	130	110	-20	-12.3	10	\$40,930	Associate's degree	None	Short-term on-the-job training	
Insurance Claims and Policy Processing Clerks	43-9041	2,570	2,610	40	1.6	260	\$39,110	High school diploma or equivalent	None	Moderate-term on-the-job training	
Mail Clerks and Mail Machine Operators, Except Postal Service	43-9051	940	850	-80	-8.7	90	\$27,340	High school diploma or equivalent	None	Short-term on-the-job training	
Office Clerks, General	43-9061	29,070	27,680	-1,390	-4.8	3,260	\$26,950	High school diploma or equivalent	None	Short-term on-the-job training	
Office Machine Operators, Except Computer	43-9071	620	530	-90	-14.9	70	\$28,010	High school diploma or equivalent	None	Short-term on-the-job training	
Statistical Assistants	43-9111	140	140	10	4.3	20	\$40,700	Bachelor's degree	None	None	
Office and Administrative Support Workers, All Other	43-9199	1,770	1,820	50	2.8	210	\$37,210	High school diploma or equivalent	None	Short-term on-the-job training	
Farming, Fishing, and Forestry Occupations	45-0000	12,260	12,460	200	1.6	2,010	\$28,720				
Supervisors of Farming, Fishing, and Forestry Workers	45-1000	710	730	20	2.2	110	NA				
First-Line Supervisors of Farming, Fishing, and Forestry Workers	45-1011	710	730	20	2.2	110	\$54,850	High school diploma or equivalent	Less than 5 years	None	
Agricultural Workers	45-2000	10,990	11,200	210	1.9	1,820	NA				
Agricultural Inspectors	45-2011	350	350	0	-0.3	50	\$35,220	Bachelor's degree	None	Moderate-term on-the-job training	
Graders and Sorters, Agricultural Products	45-2041	470	460	-10	-2.3	70	\$25,080	No formal educational credential	None	Short-term on-the-job training	
Agricultural Equipment Operators	45-2091	880	960	80	8.6	160	\$26,330	No formal educational credential	None	Moderate-term on-the-job training	
Farmworkers and Laborers, Crop, Nursery, and Greenhouse	45-2092	2,840	2,900	60	2.1	480	\$30,540	No formal educational credential	None	Short-term on-the-job training	
Farmworkers, Farm, Ranch, and Aquacultural Animals	45-2093	6,160	6,230	70	1.1	1,020	\$21,880	No formal educational credential	None	Short-term on-the-job training	
Forest, Conservation, and Logging Workers	45-4000	560	530	-30	-5.9	90	NA				
Forest and Conservation Workers	45-4011	130	110	-10	-11.0	20	\$32,370	High school diploma or equivalent	None	Moderate-term on-the-job training	
Logging Equipment Operators	45-4022	390	380	-10	-3.6	60	\$46,090	High school diploma or equivalent	None	Moderate-term on-the-job training	
Construction and Extraction Occupations	47-0000	99,760	107,870	8,110	8.1	12,740	\$39,860				
Supervisors of Construction and Extraction Workers	47-1000	10,910	11,770	860	7.9	1,270	NA				
First-Line Supervisors of Construction Trades and Extraction Workers	47-1011	10,910	11,770	860	7.9	1,270	\$63,210	High school diploma or equivalent	5 years or more	None	
Construction Trades Workers	47-2000	61,090	65,630	4,550	7.4	7,420	NA				
Boilermakers	47-2011	150	160	10	3.9	20	\$51,500	High school diploma or equivalent	None	Apprenticeship	
Brickmasons and Blockmasons	47-2021	390	410	30	6.7	40	\$47,890	High school diploma or equivalent	None	Apprenticeship	
Stonemasons	47-2022	370	390	30	7.4	40	\$35,220	High school diploma or equivalent	None	Apprenticeship	
Carpenters	47-2031	7,310	7,690	390	5.3	820	\$39,970	High school diploma or equivalent	None	Apprenticeship	
Carpet Installers	47-2041	200	190	-10	-4.1	20	\$25,450	No formal educational credential	None	Short-term on-the-job training	
Tile and Marble Setters	47-2044	370	420	50	14.2	40	\$36,250	No formal educational credential	None	Long-term on-the-job training	
Cement Masons and Concrete Finishers	47-2051	2,860	3,090	230	8.0	340	\$35,550	No formal educational credential	None	Moderate-term on-the-job training	
Construction Laborers	47-2061	12,970	14,100	1,140	8.8	1,620	\$30,480	No formal educational credential	None	Short-term on-the-job training	
Paving, Surfacing, and Tamping Equipment Operators	47-2071	1,410	1,540	130	8.9	200	\$35,790	High school diploma or equivalent	None	Moderate-term on-the-job training	
Operating Engineers and Other Construction Equipment Operators	47-2073	6,890	7,400	510	7.4	880	\$38,680	High school diploma or equivalent	None	Moderate-term on-the-job training	
Drywall and Ceiling Tile Installers	47-2081	920	920	0	-0.1	90	\$41,200	No formal educational credential	None	Moderate-term on-the-job training	
Electricians	47-2111	6,830	7,360	530	7.7	880	\$49,120	High school diploma or equivalent	None	Apprenticeship	
Glaziers	47-2121	440	470	30	7.6	60	\$33,770	High school diploma or equivalent	None	Apprenticeship	
Insulation Workers, Floor, Ceiling, and Wall	47-2131	560	560	0	-0.2	60	\$36,380	No formal educational credential	None	Short-term on-the-job training	
Insulation Workers, Mechanical	47-2132	290	310	20	5.4	40	\$44,750	High school diploma or equivalent	None	Apprenticeship	
Painters, Construction and Maintenance	47-2141	3,470	3,620	150	4.4	370	\$37,700	No formal educational credential	None	Moderate-term on-the-job training	
Pipelayers	47-2151	1,060	1,190	140	13.0	140	\$35,860	No formal educational credential	None	Short-term on-the-job training	
Plumbers, Pipefitters, and Steamfitters	47-2152	7,420	8,210	800	10.8	950	\$48,680	High school diploma or equivalent	None	Apprenticeship	

Oklahoma Long-Term Occupational Outlook, 2018 - 2028

Occupation	Employment		Employment Change		Average Annual Openings	Median Annual Wage, 2018 ¹	Education and Training Classification				
	Title	Code	2018	2028			Number	Percent	Typical Entry-Level Education ²	Work Experience in a Related Occupation ³	Typical on-the-job Training ⁴
Plasterers and Stucco Masons		47-2161	400	400	10	1.5	40	\$39,380	No formal educational credential	None	Long-term on-the-job training
Roofers		47-2181	1,540	1,680	130	8.6	180	\$33,490	No formal educational credential	None	Moderate-term on-the-job training
Sheet Metal Workers		47-2211	3,730	3,840	110	2.9	420	\$52,210	High school diploma or equivalent	None	Apprenticeship
Structural Iron and Steel Workers		47-2221	1,100	1,200	100	9.0	150	\$41,240	High school diploma or equivalent	None	Apprenticeship
Helpers, Construction Trades		47-3000	4,300	4,610	310	7.2	630	NA			
Helpers--Carpenters		47-3012	240	250	10	4.2	30	\$24,960	No formal educational credential	None	Short-term on-the-job training
Helpers--Electricians		47-3013	2,000	2,080	80	3.9	280	\$34,530	High school diploma or equivalent	None	Short-term on-the-job training
Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters		47-3015	1,400	1,570	170	12.1	220	\$33,730	High school diploma or equivalent	None	Short-term on-the-job training
Helpers, Construction Trades, All Other		47-3019	370	400	30	8.8	50	\$26,190	No formal educational credential	None	Short-term on-the-job training
Other Construction and Related Workers		47-4000	8,140	9,030	890	10.9	1,090	NA			
Construction and Building Inspectors		47-4011	2,600	2,920	320	12.4	370	\$48,820	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training
Fence Erectors		47-4031	320	350	30	8.5	40	\$30,730	No formal educational credential	None	Moderate-term on-the-job training
Highway Maintenance Workers		47-4051	3,290	3,630	340	10.2	420	\$32,960	High school diploma or equivalent	None	Moderate-term on-the-job training
Rail-Track Laying and Maintenance Equipment Operators		47-4061	310	350	40	12.6	40	\$34,230	High school diploma or equivalent	None	Moderate-term on-the-job training
Septic Tank Servicers and Sewer Pipe Cleaners		47-4071	640	720	80	13.0	90	\$30,620	High school diploma or equivalent	None	Moderate-term on-the-job training
Miscellaneous Construction and Related Workers		47-4090	680	730	50	7.1	90	\$33,460	High school diploma or equivalent	None	Moderate-term on-the-job training
Extraction Workers		47-5000	15,330	16,830	1,510	9.8	2,330	NA			
Derrick Operators, Oil and Gas		47-5011	1,050	1,180	120	11.8	170	\$47,890	No formal educational credential	None	Short-term on-the-job training
Rotary Drill Operators, Oil and Gas		47-5012	2,780	3,060	280	10.2	440	\$52,100	No formal educational credential	None	Moderate-term on-the-job training
Service Unit Operators, Oil, Gas, and Mining		47-5013	2,990	3,260	270	8.9	470	\$40,440	No formal educational credential	None	Moderate-term on-the-job training
Earth Drillers, Except Oil and Gas		47-5021	300	340	40	12.8	50	\$45,350	High school diploma or equivalent	None	Moderate-term on-the-job training
Explosives Workers, Ordnance Handling Experts, and Blasters		47-5031	720	740	20	2.8	100	\$41,760	High school diploma or equivalent	Less than 5 years	Long-term on-the-job training
Mine Cutting and Channeling Machine Operators		47-5042	220	230	10	6.0	30	\$35,160	High school diploma or equivalent	None	Moderate-term on-the-job training
Rock Splitters, Quarry		47-5051	590	660	70	11.4	90	\$28,180	No formal educational credential	None	Short-term on-the-job training
Roustabouts, Oil and Gas		47-5071	5,900	6,510	610	10.3	880	\$38,710	No formal educational credential	None	Moderate-term on-the-job training
Helpers--Extraction Workers		47-5081	550	620	70	12.5	90	\$35,520	High school diploma or equivalent	None	Moderate-term on-the-job training
Installation, Maintenance, and Repair Occupations		49-0000	83,570	87,420	3,860	4.6	8,640	\$42,940			
Supervisors of Installation, Maintenance, and Repair Workers		49-1000	7,290	7,630	340	4.6	720	NA			
First-Line Supervisors of Mechanics, Installers, and Repairers		49-1011	7,290	7,630	340	4.6	720	\$65,390	High school diploma or equivalent	Less than 5 years	None
Electrical and Electronic Equipment Mechanics, Installers, and Repairers		49-2000	8,090	8,320	240	2.9	860	NA			
Computer, Automated Teller, and Office Machine Repairers		49-2011	1,230	1,220	-20	-1.4	130	\$34,960	Some college, no degree	None	Short-term on-the-job training
Radio, Cellular, and Tower Equipment Installers and Repairs		49-2021	450	510	70	14.5	60	\$48,210	Associate's degree	None	Moderate-term on-the-job training
Telecommunications Equipment Installers and Repairers, Except Line Installers		49-2022	2,030	2,020	-10	-0.4	220	\$46,940	Postsecondary non-degree award	None	Moderate-term on-the-job training
Avionics Technicians		49-2091	730	760	30	4.1	60	\$58,410	Associate's degree	None	None
Electric Motor, Power Tool, and Related Repairers		49-2092	390	410	20	5.4	40	\$38,980	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
Electrical and Electronics Repairers, Commercial and Industrial Equipment		49-2094	1,280	1,320	50	3.5	120	\$59,430	Postsecondary non-degree award	None	Long-term on-the-job training
Electrical and Electronics Repairers, Powerhouse, Substation, and Relay		49-2095	460	490	30	6.1	40	\$70,880	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training
Electronic Home Entertainment Equipment Installers and Repairers		49-2097	190	200	0	1.0	20	\$39,020	Postsecondary non-degree award	None	Short-term on-the-job training
Security and Fire Alarm Systems Installers		49-2098	1,230	1,320	90	7.3	160	\$46,140	High school diploma or equivalent	None	Moderate-term on-the-job training
Vehicle and Mobile Equipment Mechanics, Installers, and Repairers		49-3000	25,560	25,850	290	1.1	2,470	NA			
Automotive Body and Related Repairers		49-3021	1,860	1,910	50	2.8	190	\$36,270	High school diploma or equivalent	None	Long-term on-the-job training
Automotive Glass Installers and Repairers		49-3022	150	160	10	4.0	20	\$30,250	High school diploma or equivalent	None	Moderate-term on-the-job training
Automotive Service Technicians and Mechanics		49-3023	8,720	8,530	-190	-2.2	820	\$37,710	Postsecondary non-degree award	None	Short-term on-the-job training
Bus and Truck Mechanics and Diesel Engine Specialists		49-3031	4,070	4,280	210	5.2	410	\$41,790	High school diploma or equivalent	None	Long-term on-the-job training
Farm Equipment Mechanics and Service Technicians		49-3041	570	590	20	3.9	60	\$42,150	High school diploma or equivalent	None	Long-term on-the-job training
Mobile Heavy Equipment Mechanics, Except Engines		49-3042	2,300	2,360	60	2.5	240	\$47,140	High school diploma or equivalent	None	Long-term on-the-job training
Rail Car Repairers		49-3043	170	170	0	0.6	20	\$54,460	High school diploma or equivalent	None	Long-term on-the-job training
Motorboat Mechanics and Service Technicians		49-3051	280	300	20	7.5	30	\$36,860	High school diploma or equivalent	None	Long-term on-the-job training
Motorcycle Mechanics		49-3052	160	170	10	6.8	20	\$33,740	Postsecondary non-degree award	None	Short-term on-the-job training
Outdoor Power Equipment and Other Small Engine Mechanics		49-3053	580	600	20	4.0	60	\$25,560	High school diploma or equivalent	None	Moderate-term on-the-job training
Recreational Vehicle Service Technicians		49-3092	400	420	20	6.0	50	\$36,230	High school diploma or equivalent	None	Long-term on-the-job training
Tire Repairers and Changers		49-3093	1,550	1,400	-150	-9.7	150	\$27,750	High school diploma or equivalent	None	Short-term on-the-job training
Other Installation, Maintenance, and Repair Occupations		49-9000	42,630	45,620	2,990	7.0	4,600	NA			
Mechanical Door Repairers		49-9011	590	630	40	6.8	60	\$37,290	High school diploma or equivalent	None	Moderate-term on-the-job training
Control and Valve Installers and Repairers, Except Mechanical Door		49-9012	1,270	1,300	30	2.4	110	\$56,530	High school diploma or equivalent	None	Moderate-term on-the-job training
Heating, Air Conditioning, and Refrigeration Mechanics and Installers		49-9021	4,190	4,620	430	10.3	470	\$40,740	Postsecondary non-degree award	None	Long-term on-the-job training
Home Appliance Repairers		49-9031	550	540	0	-0.7	60	\$35,620	High school diploma or equivalent	None	Moderate-term on-the-job training
Industrial Machinery Mechanics		49-9041	4,860	5,170	300	6.3	490	\$51,430	High school diploma or equivalent	None	Long-term on-the-job training
Maintenance Workers, Machinery		49-9043	4,580	5,000	420	9.1	480	\$48,390	High school diploma or equivalent	None	Long-term on-the-job training
Millwrights		49-9044	200	230	20	11.4	20	\$52,320	High school diploma or equivalent	None	Apprenticeship
Electrical Power-Line Installers and Repairers		49-9051	2,130	2,340	210	9.6	210	\$56,070	High school diploma or equivalent	None	Long-term on-the-job training
Telecommunications Line Installers and Repairers		49-9052	1,510	1,560	60	3.6	180	\$56,970	High school diploma or equivalent	None	Long-term on-the-job training

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Occupation	Code	Employment		Employment Change		Average Annual Openings	Median Annual Wage, 2018 ¹	Education and Training Classification			
		2018	2028	Number	Percent			Typical Entry-Level Education ²	Work Experience in a Related Occupation ³	Typical on-the-job Training ⁴	
Medical Equipment Repairers	49-9062	590	620	30	4.7	70	\$42,630	Associate's degree	None	Moderate-term on-the-job training	
Maintenance and Repair Workers, General	49-9071	16,740	17,830	1,090	6.5	1,780	\$32,360	High school diploma or equivalent	None	Moderate-term on-the-job training	
Wind Turbine Service Technicians	49-9081	310	510	200	64.5	60	\$47,830	Postsecondary non-degree award	None	Long-term on-the-job training	
Coin, Vending, and Amusement Machine Servicers and Repairers	49-9091	1,190	1,190	0	-0.3	140	\$30,000	High school diploma or equivalent	None	Short-term on-the-job training	
Manufactured Building and Mobile Home Installers	49-9095	150	130	-20	-14.4	10	\$32,310	High school diploma or equivalent	None	Short-term on-the-job training	
Riggers	49-9096	450	490	40	9.8	50	\$49,060	High school diploma or equivalent	None	Moderate-term on-the-job training	
Helpers--Installation, Maintenance, and Repair Workers	49-9098	1,620	1,760	140	8.4	230	\$30,970	High school diploma or equivalent	None	Short-term on-the-job training	
Installation, Maintenance, and Repair Workers, All Other	49-9099	1,010	1,070	60	6.1	120	\$43,870	High school diploma or equivalent	None	Moderate-term on-the-job training	
Production Occupations	51-0000	112,510	109,920	-2,590	-2.3	12,380	\$35,810				
Supervisors of Production Workers	51-1000	9,470	9,750	280	3.0	1,010	NA				
First-Line Supervisors of Production and Operating Workers	51-1011	9,470	9,750	280	3.0	1,010	\$57,600	High school diploma or equivalent	Less than 5 years	None	
Assemblers and Fabricators	51-2000	20,080	18,020	-2,060	-10.3	1,930	NA				
Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	51-2011	2,390	2,020	-370	-15.7	160	\$47,560	High school diploma or equivalent	None	Moderate-term on-the-job training	
Coil Winders, Tapers, and Finishers	51-2021	180	160	-20	-10.9	20	\$33,470	High school diploma or equivalent	None	Moderate-term on-the-job training	
Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	51-2028	3,290	3,400	110	3.4	390	\$31,710	High school diploma or equivalent	None	Moderate-term on-the-job training	
Structural Metal Fabricators and Fitters	51-2041	1,320	1,130	-180	-13.8	110	\$34,780	High school diploma or equivalent	None	Moderate-term on-the-job training	
Fiberglass Laminators and Fabricators	51-2091	200	200	0	2.1	20	\$28,490	High school diploma or equivalent	None	Moderate-term on-the-job training	
Assemblers and Fabricators, All Other, Including Team Assemblers	51-2098	12,160	10,610	-1,550	-12.7	1,170	\$30,810	High school diploma or equivalent	None	Moderate-term on-the-job training	
Food Processing Workers	51-3000	7,500	7,710	210	2.8	1,030	NA				
Bakers	51-3011	1,600	1,690	80	5.2	230	\$22,780	No formal educational credential	None	Long-term on-the-job training	
Butchers and Meat Cutters	51-3021	1,340	1,390	50	3.5	170	\$27,500	No formal educational credential	None	Long-term on-the-job training	
Meat, Poultry, and Fish Cutters and Trimmers	51-3022	810	820	10	1.5	100	\$22,860	No formal educational credential	None	Short-term on-the-job training	
Slaughterers and Meat Packers	51-3023	1,160	1,180	20	1.5	150	\$23,240	No formal educational credential	None	Short-term on-the-job training	
Food Batchmakers	51-3092	1,090	1,110	20	2.0	160	\$27,800	High school diploma or equivalent	None	Moderate-term on-the-job training	
Food Cooking Machine Operators and Tenders	51-3093	710	710	0	-0.1	110	\$29,490	High school diploma or equivalent	None	Moderate-term on-the-job training	
Metal Workers and Plastic Workers	51-4000	31,840	31,670	-170	-0.5	3,400	NA				
Computer-Controlled Machine Tool Operators, Metal and Plastic	51-4011	3,190	2,970	-220	-7.0	290	\$38,310	High school diploma or equivalent	None	Moderate-term on-the-job training	
Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	51-4012	400	490	90	22.3	60	\$48,920	Postsecondary non-degree award	None	Moderate-term on-the-job training	
Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	51-4021	640	580	-50	-8.5	70	\$34,420	High school diploma or equivalent	None	Moderate-term on-the-job training	
Forging Machine Setters, Operators, and Tenders, Metal and Plastic	51-4022	270	240	-20	-8.7	20	\$58,120	High school diploma or equivalent	None	Moderate-term on-the-job training	
Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	51-4023	330	300	-30	-9.2	30	\$35,910	High school diploma or equivalent	None	Moderate-term on-the-job training	
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	51-4031	2,340	2,180	-170	-7.1	240	\$31,280	High school diploma or equivalent	None	Moderate-term on-the-job training	
Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	51-4032	310	250	-60	-20.3	20	\$38,720	High school diploma or equivalent	None	Moderate-term on-the-job training	
Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	51-4033	860	810	-50	-5.4	90	\$31,090	High school diploma or equivalent	None	Moderate-term on-the-job training	
Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	51-4034	670	610	-70	-10.2	70	\$38,380	High school diploma or equivalent	None	Moderate-term on-the-job training	
Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	51-4035	330	270	-60	-18.7	30	\$31,010	High school diploma or equivalent	None	Moderate-term on-the-job training	
Machinists	51-4041	5,380	5,620	230	4.3	580	\$43,140	High school diploma or equivalent	None	Long-term on-the-job training	
Metal-Refining Furnace Operators and Tenders	51-4051	130	140	10	3.7	20	\$37,400	High school diploma or equivalent	None	Moderate-term on-the-job training	
Foundry Mold and Coremakers	51-4071	300	280	-30	-8.9	30	\$29,200	High school diploma or equivalent	None	Moderate-term on-the-job training	
Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	51-4072	1,020	940	-80	-8.1	100	\$28,450	High school diploma or equivalent	None	Moderate-term on-the-job training	
Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	51-4081	2,120	2,180	60	2.7	230	\$33,950	High school diploma or equivalent	None	Moderate-term on-the-job training	
Tool and Die Makers	51-4111	460	460	0	-0.9	50	\$59,020	Postsecondary non-degree award	None	Long-term on-the-job training	
Welders, Cutters, Solderers, and Brazers	51-4121	10,830	11,300	470	4.4	1,260	\$41,470	High school diploma or equivalent	None	Moderate-term on-the-job training	
Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	51-4122	510	470	-40	-7.8	50	\$37,550	High school diploma or equivalent	None	Moderate-term on-the-job training	
Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	51-4191	350	320	-30	-8.3	30	\$38,430	High school diploma or equivalent	None	Moderate-term on-the-job training	
Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	51-4193	510	460	-50	-9.4	50	\$38,130	High school diploma or equivalent	None	Moderate-term on-the-job training	
Tool Grinders, Filers, and Sharpeners	51-4194	300	290	-10	-2.0	40	\$36,820	High school diploma or equivalent	None	Moderate-term on-the-job training	
Metal Workers and Plastic Workers, All Other	51-4199	320	290	-30	-9.5	30	\$35,970	High school diploma or equivalent	None	Moderate-term on-the-job training	
Printing Workers	51-5100	1,640	1,430	-200	-12.4	150	NA				
Prepress Technicians and Workers	51-5111	240	200	-40	-16.5	20	\$37,330	Postsecondary non-degree award	None	None	
Printing Press Operators	51-5112	1,270	1,120	-150	-12.0	120	\$29,800	High school diploma or equivalent	None	Moderate-term on-the-job training	
Print Binding and Finishing Workers	51-5113	130	120	-10	-8.0	20	\$26,110	High school diploma or equivalent	None	Moderate-term on-the-job training	
Textile, Apparel, and Furnishings Workers	51-6000	5,760	5,600	-160	-2.8	700	NA				
Laundry and Dry-Cleaning Workers	51-6011	3,090	3,040	-50	-1.7	400	\$20,140	No formal educational credential	None	Short-term on-the-job training	
Pressers, Textile, Garment, and Related Materials	51-6021	340	270	-70	-21.7	30	\$19,110	No formal educational credential	None	Short-term on-the-job training	
Sewing Machine Operators	51-6031	830	790	-40	-4.2	90	\$22,290	No formal educational credential	None	Short-term on-the-job training	
Shoe and Leather Workers and Repairers	51-6041	70	70	0	-5.8	10	\$20,860	High school diploma or equivalent	None	Moderate-term on-the-job training	
Sewers, Hand	51-6051	50	50	0	0.0	10	NA	No formal educational credential	None	Moderate-term on-the-job training	
Tailors, Dressmakers, and Custom Sewers	51-6052	280	260	-30	-9.2	30	\$27,300	No formal educational credential	None	Moderate-term on-the-job training	
Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	51-6091	300	310	10	2.3	40	\$31,360	High school diploma or equivalent	None	Moderate-term on-the-job training	
Upholsterers	51-6093	270	270	0	0.4	30	\$27,470	High school diploma or equivalent	None	Moderate-term on-the-job training	
Woodworkers	51-7000	2,630	2,630	0	0.0	300	NA				

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Occupation		Employment		Employment Change		Average Annual	Median Annual	Education and Training Classification			
Title	Code	2018	2028	Number	Percent	Openings	Wage, 2018 ¹	Typical Entry-Level Education ²	Work Experience in a Related Occupation ³	Typical on-the-job Training ⁴	
Cabinetmakers and Bench Carpenters	51-7011	1,490	1,500	0	0.1	150	\$30,840	High school diploma or equivalent	None	Moderate-term on-the-job training	
Furniture Finishers	51-7021	110	110	0	1.9	10	\$34,280	High school diploma or equivalent	None	Short-term on-the-job training	
Sawing Machine Setters, Operators, and Tenders, Wood	51-7041	420	410	-10	-1.2	50	\$35,760	High school diploma or equivalent	None	Moderate-term on-the-job training	
Woodworking Machine Setters, Operators, and Tenders, Except Sawing	51-7042	270	260	-10	-3.7	40	\$30,100	High school diploma or equivalent	None	Moderate-term on-the-job training	
Plant and System Operators	51-8000	5,620	5,720	100	1.7	580	NA				
Power Distributors and Dispatchers	51-8012	120	120	0	0.0	10	\$78,460	High school diploma or equivalent	None	Long-term on-the-job training	
Power Plant Operators	51-8013	410	410	0	-0.7	40	\$69,900	High school diploma or equivalent	None	Long-term on-the-job training	
Stationary Engineers and Boiler Operators	51-8021	320	330	10	3.1	40	\$56,210	High school diploma or equivalent	None	Long-term on-the-job training	
Water and Wastewater Treatment Plant and System Operators	51-8031	2,190	2,160	-40	-1.6	190	\$34,250	High school diploma or equivalent	None	Long-term on-the-job training	
Chemical Plant and System Operators	51-8091	150	150	0	-1.3	20	NA	High school diploma or equivalent	None	Moderate-term on-the-job training	
Gas Plant Operators	51-8092	350	340	-10	-1.7	40	\$65,970	High school diploma or equivalent	None	Long-term on-the-job training	
Petroleum Pump System Operators, Refinery Operators, and Gaugers	51-8093	1,880	2,020	140	7.2	230	\$72,430	High school diploma or equivalent	None	Moderate-term on-the-job training	
Plant and System Operators, All Other	51-8099	200	190	0	-0.5	20	\$50,810	High school diploma or equivalent	None	Moderate-term on-the-job training	
Other Production Occupations	51-9000	27,980	27,400	-580	-2.1	3,280	NA				
Chemical Equipment Operators and Tenders	51-9011	600	620	20	3.8	70	\$39,660	High school diploma or equivalent	None	Moderate-term on-the-job training	
Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	51-9021	660	630	-30	-3.8	70	\$30,140	High school diploma or equivalent	None	Moderate-term on-the-job training	
Grinding and Polishing Workers, Hand	51-9022	440	370	-70	-15.7	40	\$29,130	No formal educational credential	None	Moderate-term on-the-job training	
Mixing and Blending Machine Setters, Operators, and Tenders	51-9023	1,360	1,390	30	2.4	160	\$36,910	High school diploma or equivalent	None	Moderate-term on-the-job training	
Cutters and Trimmers, Hand	51-9031	80	60	-20	-26.6	10	\$28,490	No formal educational credential	None	Short-term on-the-job training	
Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	51-9041	870	850	-20	-2.7	90	\$29,760	High school diploma or equivalent	None	Moderate-term on-the-job training	
Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	51-9051	290	300	10	2.4	30	\$37,260	High school diploma or equivalent	None	Moderate-term on-the-job training	
Inspectors, Testers, Sorters, Samplers, and Weighers	51-9061	6,110	5,170	-940	-15.4	600	\$41,800	High school diploma or equivalent	None	Moderate-term on-the-job training	
Jewelers and Precious Stone and Metal Workers	51-9071	430	430	0	-0.7	50	\$40,870	High school diploma or equivalent	None	Long-term on-the-job training	
Dental Laboratory Technicians	51-9081	310	330	20	7.5	40	\$42,770	High school diploma or equivalent	None	Moderate-term on-the-job training	
Medical Appliance Technicians	51-9082	80	90	10	15.0	10	\$34,280	High school diploma or equivalent	None	Moderate-term on-the-job training	
Ophthalmic Laboratory Technicians	51-9083	340	370	30	8.2	50	\$31,860	High school diploma or equivalent	None	Moderate-term on-the-job training	
Packaging and Filling Machine Operators and Tenders	51-9111	2,280	2,320	40	1.6	270	\$26,870	High school diploma or equivalent	None	Moderate-term on-the-job training	
Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	51-9121	2,060	2,140	80	3.7	240	\$34,080	High school diploma or equivalent	None	Moderate-term on-the-job training	
Painters, Transportation Equipment	51-9122	710	750	40	5.9	80	\$40,660	High school diploma or equivalent	None	Moderate-term on-the-job training	
Painting, Coating, and Decorating Workers	51-9123	130	130	0	2.3	10	\$35,350	No formal educational credential	None	Moderate-term on-the-job training	
Photographic Process Workers and Processing Machine Operators	51-9151	300	230	-70	-23.1	30	\$25,250	High school diploma or equivalent	None	Short-term on-the-job training	
Adhesive Bonding Machine Operators and Tenders	51-9191	710	770	60	7.7	100	\$53,020	High school diploma or equivalent	None	Short-term on-the-job training	
Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	51-9192	400	400	10	2.0	60	\$26,580	High school diploma or equivalent	None	Moderate-term on-the-job training	
Etchers and Engravers	51-9194	60	70	0	6.5	10	\$29,830	High school diploma or equivalent	None	Moderate-term on-the-job training	
Molders, Shapers, and Casters, Except Metal and Plastic	51-9195	920	920	0	0.0	100	\$32,280	High school diploma or equivalent	None	Long-term on-the-job training	
Paper Goods Machine Setters, Operators, and Tenders	51-9196	1,330	1,390	70	5.2	150	\$53,500	High school diploma or equivalent	None	Moderate-term on-the-job training	
Tire Builders	51-9197	1,410	1,290	-130	-8.8	130	\$54,360	High school diploma or equivalent	None	Moderate-term on-the-job training	
Helpers--Production Workers	51-9198	3,030	3,240	210	7.0	480	\$29,240	High school diploma or equivalent	None	Short-term on-the-job training	
Production Workers, All Other	51-9199	1,690	1,770	80	4.8	210	\$30,480	High school diploma or equivalent	None	Moderate-term on-the-job training	
Transportation and Material Moving Occupations	53-0000	114,540	120,220	5,680	5.0	15,090	\$32,760				
Supervisors of Transportation and Material Moving Workers	53-1000	5,060	5,360	290	5.8	590	NA				
Aircraft Cargo Handling Supervisors	53-1011	50	50	10	11.1	10	\$49,680	High school diploma or equivalent	Less than 5 years	None	
First-Line Supervisors of Transportation and Material Moving Workers, Except Aircraft Cargo Handling	53-1048	5,020	5,310	290	5.8	580	\$50,840	High school diploma or equivalent	Less than 5 years	None	
Air Transportation Workers	53-2000	1,130	1,210	80	7.1	120	NA				
Airline Pilots, Copilots, and Flight Engineers	53-2011	200	200	0	1.5	20	\$100,480	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training	
Commercial Pilots	53-2012	510	570	60	11.6	60	\$77,560	High school diploma or equivalent	None	Moderate-term on-the-job training	
Air Traffic Controllers	53-2021	380	390	20	4.3	40	\$109,230	Associate's degree	None	Long-term on-the-job training	
Motor Vehicle Operators	53-3000	51,120	53,560	2,450	4.8	6,270	NA				
Ambulance Drivers and Attendants, Except Emergency Medical Technicians	53-3011	140	150	10	4.3	20	\$24,710	High school diploma or equivalent	None	Moderate-term on-the-job training	
Bus Drivers, Transit and Intercity	53-3021	870	960	90	9.8	120	\$26,110	High school diploma or equivalent	None	Moderate-term on-the-job training	
Bus Drivers, School or Special Client	53-3022	4,450	4,500	50	1.1	570	\$20,460	High school diploma or equivalent	None	Short-term on-the-job training	
Driver/Sales Workers	53-3031	5,110	4,990	-110	-2.2	560	\$25,520	High school diploma or equivalent	None	Short-term on-the-job training	
Heavy and Tractor-Trailer Truck Drivers	53-3032	28,330	29,940	1,610	5.7	3,470	\$41,750	Postsecondary non-degree award	None	Short-term on-the-job training	
Light Truck or Delivery Services Drivers	53-3033	9,510	9,800	290	3.0	1,130	\$32,170	High school diploma or equivalent	None	Short-term on-the-job training	
Taxi Drivers and Chauffeurs	53-3041	2,470	2,990	510	20.8	350	\$22,070	No formal educational credential	None	Short-term on-the-job training	
Motor Vehicle Operators, All Other	53-3099	240	240	10	3.0	40	\$47,590	No formal educational credential	None	Short-term on-the-job training	
Rail Yard Engineers, Dinkey Operators, and Hostlers	53-4013	110	110	0	1.9	10	\$54,570	High school diploma or equivalent	None	Moderate-term on-the-job training	
Other Transportation Workers	53-6000	2,880	3,000	110	3.9	410	NA				
Parking Lot Attendants	53-6021	950	960	10	1.2	150	\$20,710	No formal educational credential	None	Short-term on-the-job training	
Automotive and Watercraft Service Attendants	53-6031	1,120	1,140	20	2.1	170	\$23,650	No formal educational credential	None	Short-term on-the-job training	
Traffic Technicians	53-6041	50	60	0	7.5	10	\$38,190	High school diploma or equivalent	None	Moderate-term on-the-job training	
Transportation Inspectors	53-6051	550	600	50	9.3	60	\$80,600	High school diploma or equivalent	None	Moderate-term on-the-job training	

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Occupation		Employment		Employment Change		Average Annual Openings	Median Annual Wage, 2018 ¹	Education and Training Classification		
Title	Code	2018	2028	Number	Percent			Typical Entry-Level Education ²	Work Experience in a Related Occupation ³	Typical on-the-job Training ⁴
Transportation Workers, All Other	53-6099	160	180	20	12.1	20	\$31,480	High school diploma or equivalent	None	Short-term on-the-job training
Material Moving Workers	53-7000	53,020	55,760	2,740	5.2	7,580	NA			
Conveyor Operators and Tenders	53-7011	760	750	-10	-1.6	90	\$31,110	No formal educational credential	None	Short-term on-the-job training
Crane and Tower Operators	53-7021	550	580	30	6.2	70	\$48,760	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
Dredge Operators	53-7031	50	60	10	11.1	10	\$41,990	High school diploma or equivalent	None	Moderate-term on-the-job training
Excavating and Loading Machine and Dragline Operators	53-7032	950	1,040	90	8.9	130	\$42,330	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
Industrial Truck and Tractor Operators	53-7051	7,180	7,490	310	4.4	860	\$34,470	No formal educational credential	None	Short-term on-the-job training
Cleaners of Vehicles and Equipment	53-7061	4,530	4,730	200	4.5	700	\$23,960	No formal educational credential	None	Short-term on-the-job training
Laborers and Freight, Stock, and Material Movers, Hand	53-7062	30,560	32,640	2,080	6.8	4,600	\$28,050	No formal educational credential	None	Short-term on-the-job training
Machine Feeders and Offbearers	53-7063	680	670	-10	-1.5	90	\$25,110	No formal educational credential	None	Short-term on-the-job training
Packers and Packagers, Hand	53-7064	3,410	3,210	-200	-5.8	460	\$23,090	No formal educational credential	None	Short-term on-the-job training
Gas Compressor and Gas Pumping Station Operators	53-7071	270	260	-10	-3.0	30	\$64,690	High school diploma or equivalent	None	Moderate-term on-the-job training
Pump Operators, Except Wellhead Pumpers	53-7072	450	490	40	8.4	60	\$39,510	High school diploma or equivalent	None	Moderate-term on-the-job training
Wellhead Pumpers	53-7073	1,480	1,520	30	2.2	180	\$51,250	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
Refuse and Recyclable Material Collectors	53-7081	1,770	1,950	180	9.9	270	\$33,580	No formal educational credential	None	Short-term on-the-job training
Tank Car, Truck, and Ship Loaders	53-7121	250	250	0	-0.8	30	\$30,880	No formal educational credential	None	Short-term on-the-job training

Footnotes:

¹Represents the typical education level needed to enter the occupation. NA indicates data is not available.

²Indicates if work experience in a related occupation is commonly considered necessary by employers for entry, or is a commonly accepted substitute for formal types of training.

³Indicates the typical on-the-job training needed to attain competency in the occupation.

NOTE: For more information about the education, work experience, and on-the-job training categories assigned to occupations, see www.bls.gov/emp/ep_education_training_system.htm

Source: Employment Projections program, Oklahoma Employment Security Commission, Research & Analysis Division.