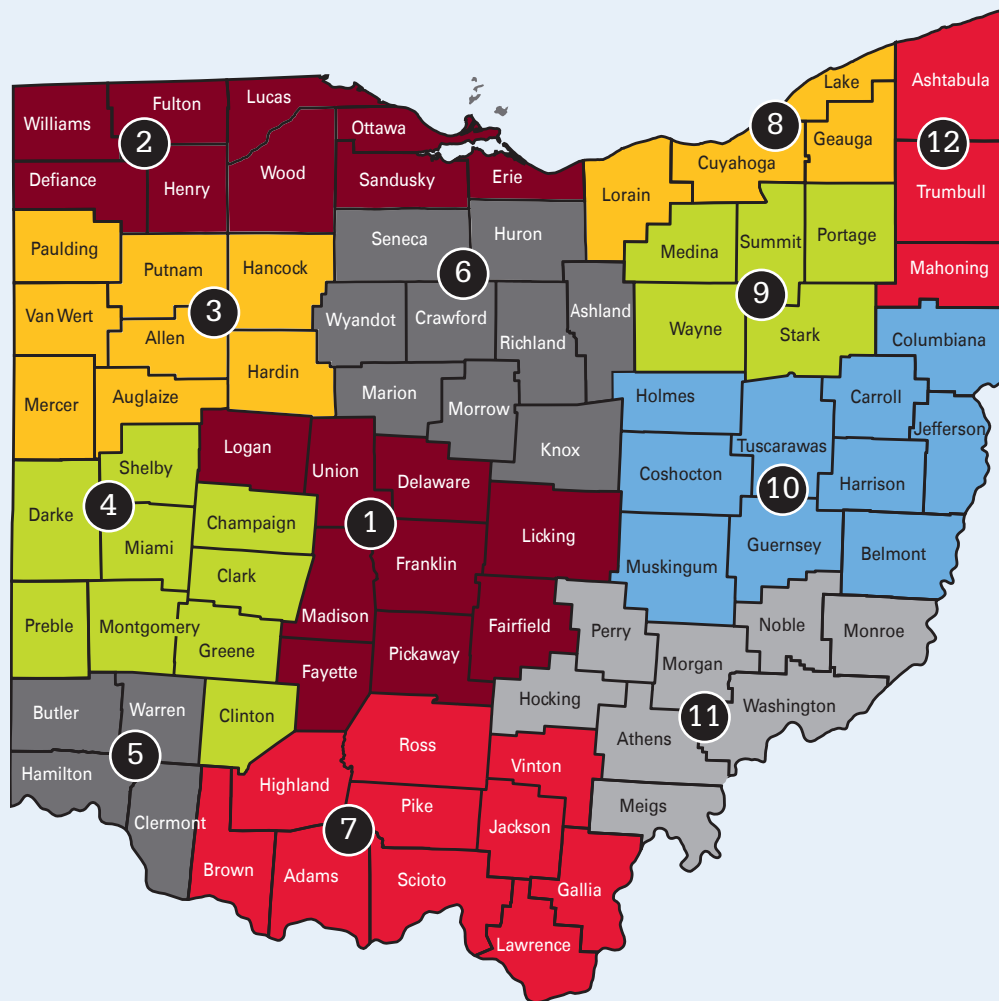


# 2018 Ohio Job Outlook

## Southwest Central Ohio

### Economic Development Region 4

Champaign, Clark, Clinton, Darke, Greene, Miami, Montgomery, Preble and Shelby Counties



## Job Outlook, 2008-2018, for Ohio's Economic Development Regions

Employment projections are updated every two years by the ODJFS Bureau of Labor Market Information (BLMI). The projections are widely used for studying long-range economic and employment trends, planning education and training programs, and developing career information. This edition uses employment statistics for 2008 as a foundation to project employment conditions for the 10-year period ending in 2018.

The table below summarizes 2008 employment levels and projected 2018 levels for each of Ohio's twelve Economic Development Regions (EDRs). The difference between the two levels, of course, represents new jobs resulting from growth. Employment in Central Ohio is projected to grow at the fastest rate, 5.8 percent from 2008 to 2018, followed by Southwest Ohio at 5.1 percent. State employment is projected to grow by 4.3 percent during this period. These are the only areas projected to grow faster than the State. Just below the statewide average is the Northeast Central area of Ohio with a projected 4.2 percent growth. Total employment in the remaining regions is projected to grow slower than the State: between 0.3 and 4.0 percent growth.

**Projected Job Growth by Economic Development Region**

Region	Name	Projected Employment		Growth 2008-2018	
		2008	2018	Number	Percent
1	Central	1,012,700	1,071,200	58,500	5.8%
2	Northwest	454,500	462,900	8,400	1.8%
3	West Central	190,100	192,900	2,800	1.5%
4	Southwest Central	562,100	575,700	13,600	2.4%
5	Southwest	863,400	907,700	44,300	5.1%
6	North Central	215,800	216,600	800	0.4%
7	Southern	144,000	149,700	5,700	4.0%
8	Northern	1,043,500	1,062,300	18,800	1.8%
9	Northeast Central	642,600	669,800	27,200	4.2%
10	East Central	229,600	232,800	3,200	1.4%
11	Southeast	82,200	85,300	3,100	3.8%
12	Northeast	229,500	230,300	800	0.3%

Stronger growth is correlated with a lower concentration of manufacturing employment, which is expected to decline. The Central and Southwest Ohio regions have lower concentrations of manufacturing employment, while those regions projected to grow slower than average have higher concentrations.

Each report contains a summary of the employment outlook by industry and by major occupational group. The job outlook also ranks by the fastest growing occupations and occupations expected to provide the most annual openings, a combination of projected employment change and net annual openings due primarily to anticipated retirements. An alphabetical listing is provided for ease in locating a particular occupation in the detailed report ordered by code number, which tends to list jobs that are similar in nature (e.g., management, health, construction, etc.).

The report also lists occupations, sorted by education or training level, where there is a high prospect for employment in a good-paying job. Occupations are defined as having high employment prospects if the pay averages at least \$15.69 an hour and they are expected to have a relatively large number of annual openings. (\$15.69 was the median wage for the state in December 2010). Examples of occupations that meet these criteria in every region include executive secretaries and administrative assistants; tractor-trailer truck drivers; licensed and vocational practical nurses; and registered nurses. Skilled tradesmen such as electricians were also on every high prospect list.

## Technical Notes

Projections of employment demand were made primarily at the 3-digit industry level, based on the North American Industry Classification System (NAICS), using shift-share techniques that related Ohio's Economic Development Region industry employment to statewide industry employment over the past decade. State and local area projections are also partially dependent on the outlook for specific industries nationally.

Economic Development Region staffing patterns were estimated using the Estimates Delivery System (EDS), an automated system for creating data for customized geographic regions from the results of the Occupational Employment Statistics (OES) Survey. These OES surveys were for 2006, 2007 and 2008 reflecting the Standard Occupational Classification (SOC) coding structure. The source of the wage estimates is the May 2009 Occupational Employment Statistics wage survey for Ohio. These wage estimates were then aged using the Employment Cost Index (ECI) for December 2010. This calculation was done in the EDS system. The analysis by education and training level is made possible by the classification of the OES occupations into eleven distinct categories by the staff at the Office of Economic Projections at the Bureau of Labor Statistics.

Ohio industry staffing patterns were adjusted for expected technological change and other factors from national data provided by the Bureau of Labor Statistics (BLS). Net annual replacement needs were computed from national rates calculated by BLS and as explained on their website: [http://stats.bls.gov/emp/ep\\_replacements.htm](http://stats.bls.gov/emp/ep_replacements.htm). Although these rates have been found to provide reliable estimates of Ohio's replacement needs for specific occupations, there are many additional openings resulting from turnover. Inclusion of education and training level is made possible by the classification of the SOC occupations into eleven distinct categories by the staff at the Office of Occupational Statistics and Employment Projections at BLS.

Because future trends are always subject to uncertainty, the long-term job outlook will continue to be produced every other year. For more information on the local job outlook around Ohio available through reports furnished on the Internet, visit <http://lmi.state.oh.us/proj/projections.htm>.

**Southwest Central Ohio - Economic Development Region 4  
Industry Employment\* Projection Report: 2008-2018**

North American Industry Classification System Code Description		Employment		Projected Change in Employment	
		2008 Annual	2018 Projected	2008-2018	Percent
TOTAL		562,100	575,700	13,600	2.4%
Goods Producing		109,100	95,500	-13,600	-12.5%
Natural Resources, inc. Agriculture and Mining		11,700	11,300	-400	-3.4%
Construction		17,700	19,400	1,700	9.6%
236	Construction of buildings	4,300	4,500	200	4.7%
237	Heavy and civil engineering construction	1,300	1,300	0	0.0%
238	Specialty trade contractors	12,100	13,600	1,500	12.4%
Manufacturing		79,600	64,900	-14,700	-18.5%
311	Food manufacturing	3,900	4,100	200	5.1%
321	Wood product manufacturing	1,100	1,000	-100	-9.1%
322	Paper manufacturing	2,400	1,700	-700	-29.2%
323	Printing and related support activities	2,600	1,600	-1,000	-38.5%
325	Chemical manufacturing	1,800	1,700	-100	-5.6%
326	Plastics and rubber products manufacturing	7,300	5,800	-1,500	-20.5%
327	Nonmetallic mineral product manufacturing	1,400	1,500	100	7.1%
331	Primary metal manufacturing	2,800	2,500	-300	-10.7%
332	Fabricated metal product manufacturing	11,700	9,900	-1,800	-15.4%
333	Machinery manufacturing	13,500	11,500	-2,000	-14.8%
334	Computer & electronic product manufacturing	2,900	1,900	-1,000	-34.5%
336	Transportation equipment manufacturing	19,000	13,500	-5,500	-28.9%
337	Furniture and related product manufacturing	1,800	1,800	0	0.0%
339	Miscellaneous manufacturing	2,200	2,400	200	9.1%
Service-Providing		420,800	447,100	26,300	6.3%
Trade, Transportation and Utilities		99,500	99,400	-100	-0.1%
Wholesale Trade		18,600	18,900	300	1.6%
423	Merchant wholesalers, durable goods	11,200	11,000	-200	-1.8%
424	Merchant wholesalers, nondurable goods	5,900	6,200	300	5.1%
425	Electronic markets and agents and brokers	1,500	1,800	300	20.0%
Retail Trade		54,700	52,600	-2,100	-3.8%
441	Motor vehicle and parts dealers	6,700	5,500	-1,200	-17.9%
442	Furniture and home furnishings stores	1,400	1,300	-100	-7.1%
443	Electronics and appliance stores	1,700	1,600	-100	-5.9%
444	Building material and garden supply stores	4,600	4,600	0	0.0%
445	Food and beverage stores	9,600	9,600	0	0.0%
446	Health and personal care stores	3,300	3,500	200	6.1%
447	Gasoline stations	3,100	2,500	-600	-19.4%
448	Clothing and clothing accessories stores	4,100	3,900	-200	-4.9%

\*Selected industries with 500 or more employees.

**Southwest Central Ohio - Economic Development Region 4  
Industry Employment\* Projection Report: 2008-2018**

North American Industry Classification System Code	Description	Employment		Projected Change in Employment	
		2008 Annual	2018 Projected	2008-2018	Percent
451	Sporting goods, hobby, book and music stores	1,800	2,000	200	11.1%
452	General merchandise stores	13,600	13,500	-100	-0.7%
453	Miscellaneous store retailers	3,300	3,200	-100	-3.0%
454	Nonstore retailers	1,400	1,500	100	7.1%
	<b>Transportation and Warehousing</b>	<b>24,800</b>	<b>26,700</b>	<b>1,900</b>	<b>7.7%</b>
484	Truck transportation	8,900	9,900	1,000	11.2%
488	Support activities for transportation	1,900	1,700	-200	-10.5%
493	Warehousing and storage	2,700	3,300	600	22.2%
22	Utilities	1,400	1,200	-200	-14.3%
	<b>Information</b>	<b>12,900</b>	<b>13,800</b>	<b>900</b>	<b>7.0%</b>
515	Broadcasting, except Internet	700	700	0	0.0%
517	Telecommunications	3,000	3,400	400	13.3%
	<b>Financial Activities</b>	<b>23,500</b>	<b>24,800</b>	<b>1,300</b>	<b>5.5%</b>
	<b>Finance and Insurance</b>	<b>18,000</b>	<b>19,100</b>	<b>1,100</b>	<b>6.1%</b>
522	Credit intermediation and related activities	10,100	10,500	400	4.0%
524	Insurance carriers and related activities	6,700	7,400	700	10.4%
	<b>Real Estate and Insurance</b>	<b>5,500</b>	<b>5,700</b>	<b>200</b>	<b>3.6%</b>
531	Real estate	3,600	3,800	200	5.6%
	<b>Professional and Business Services</b>	<b>57,800</b>	<b>63,900</b>	<b>6,100</b>	<b>10.6%</b>
	<b>Professional and Technical Services</b>	<b>23,400</b>	<b>27,200</b>	<b>3,800</b>	<b>16.2%</b>
5411	Legal services	2,500	2,500	0	0.0%
5412	Accounting and bookkeeping services	2,900	3,600	700	24.1%
5413	Architectural and engineering services	4,600	4,900	300	6.5%
5415	Computer systems design & related services	5,500	6,700	1,200	21.8%
5416	Management & technical consulting services	1,800	2,700	900	50.0%
5418	Advertising and related services	2,000	2,400	400	20.0%
5419	Other professional and technical services	1,500	1,400	-100	-6.7%
55	Management of companies and enterprises	7,100	7,600	500	7.0%
	<b>Administrative and Waste Services</b>	<b>27,300</b>	<b>29,100</b>	<b>1,800</b>	<b>6.6%</b>
5611	Office administrative services	900	1,100	200	22.2%
5613	Employment services	12,500	14,700	2,200	17.6%
5614	Business support services	3,200	2,500	-700	-21.9%
5616	Investigation and security services	1,900	1,900	0	0.0%
5617	Services to buildings and dwellings	6,400	7,200	800	12.5%
5619	Other support services	900	500	-400	-44.4%
562	Waste management & remediation services	1,000	900	-100	-10.0%
	<b>Education and Health Services</b>	<b>80,300</b>	<b>93,800</b>	<b>13,500</b>	<b>16.8%</b>

\*Selected industries with 500 or more employees.

**Southwest Central Ohio - Economic Development Region 4  
Industry Employment\* Projection Report: 2008-2018**

North American Industry Classification System Code	Description	Employment		Projected Change in Employment	
		2008 Annual	2018 Projected	2008-2018	Percent
61	Educational Services, Private	10,400	12,300	1,900	18.3%
	Health Care and Social Assistance	69,900	81,500	11,600	16.6%
621	Ambulatory Health Care Services	22,800	29,000	6,200	27.2%
622	Hospitals	23,100	24,100	1,000	4.3%
623	Nursing and residential care facilities	16,300	18,000	1,700	10.4%
624	Social assistance	7,700	10,400	2,700	35.1%
	<b>Leisure and Hospitality</b>	<b>47,100</b>	<b>49,900</b>	<b>2,800</b>	<b>5.9%</b>
	Arts, Entertainment and Recreation	4,500	4,500	0	0.0%
711	Performing arts and spectator sports	1,000	1,000	0	0.0%
712	Museums, historical sites, zoos and parks	300	400	100	33.3%
713	Amusements, gambling, and recreation	3,200	3,100	-100	-3.1%
	<b>Accommodation and Food services</b>	<b>42,700</b>	<b>45,400</b>	<b>2,700</b>	<b>6.3%</b>
721	Accommodation	2,900	3,000	100	3.4%
722	Food services and drinking places	39,800	42,400	2,600	6.5%
	<b>Other Services</b>	<b>20,400</b>	<b>21,800</b>	<b>1,400</b>	<b>6.9%</b>
811	Repair and maintenance	4,400	4,400	0	0.0%
812	Personal and laundry services	5,100	5,500	400	7.8%
813	Membership associations and organizations	10,800	11,900	1,100	10.2%
	<b>Government</b>	<b>79,400</b>	<b>79,700</b>	<b>300</b>	<b>0.4%</b>
	Federal Government	17,500	16,600	-900	-5.1%
	State Government	5,800	5,700	-100	-1.7%
	State government, except education & hospitals	2,500	2,400	-100	-4.0%
	<b>Local Government</b>	<b>56,100</b>	<b>57,400</b>	<b>1,300</b>	<b>2.3%</b>
	Local government, education	30,200	31,300	1,100	3.6%
	<b>Self-Employed, Private Household &amp; Unpaid Family Workers</b>	<b>32,300</b>	<b>33,100</b>	<b>800</b>	<b>2.5%</b>

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, June 2011.

**Southwest Central Ohio - Economic Development Region 4  
Occupational Employment Projections by Major Occupational Group, 2008-2018  
Breakdown of Annual Openings**

Occupational Title	Employment		Change in Employment		Annual Openings		
	2008 Annual	2018 Projected	2008 - 2018	Percent	Growth	Replacements	Total
Total, All Occupations	562,100	575,700	13,600	2.4%	3,153	12,609	15,762
Management Occupations	30,220	29,580	-640	-2.1%	69	541	610
Business and Financial Operations Occupations	23,950	26,050	2,100	8.8%	215	491	706
Computer and Mathematical Occupations	15,350	17,560	2,210	14.4%	241	275	516
Architecture and Engineering Occupations	10,690	10,210	-480	-4.5%	16	236	252
Life, Physical, and Social Science Occupations	3,940	4,380	440	11.2%	47	124	171
Community and Social Services Occupations	9,900	11,240	1,340	13.5%	134	212	346
Legal Occupations	3,020	3,050	30	1.0%	8	51	59
Education, Training, and Library Occupations	31,530	34,770	3,240	10.3%	324	719	1,043
Arts, Design, Entertainment, Sports, & Media Occ.	9,330	9,860	530	5.7%	71	232	303
Healthcare Practitioners and Technical Occupations	32,190	36,420	4,230	13.1%	426	665	1,091
Healthcare Support Occupations	19,200	22,700	3,500	18.2%	358	209	567
Protective Service Occupations	9,530	9,760	230	2.4%	28	283	311
Food Preparation and Serving Related Occupations	47,230	50,320	3,090	6.5%	312	1,544	1,856
Building & Grounds Cleaning & Maintenance Occup.	18,690	19,070	380	2.0%	55	318	373
Personal Care and Service Occupations	12,390	13,760	1,370	11.1%	140	307	447
Sales and Related Occupations	54,340	53,570	-770	-1.4%	79	1,624	1,703
Office and Administrative Support Occupations	83,560	83,860	300	0.4%	324	1,748	2,072
Farming, Fishing, and Forestry Occupations	1,970	1,910	-60	-3.0%	2	53	55
Construction and Extraction Occupations	18,600	19,430	830	4.5%	89	324	413
Installation, Maintenance, and Repair Occupations	19,940	19,740	-200	-1.0%	43	387	430
Production Occupations	59,730	51,180	-8,550	-14.3%	36	1,146	1,182
Transportation and Material Moving Occupations	46,870	47,230	360	0.8%	138	1,121	1,259

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, August 2011



**Southwest Central Ohio - Economic Development Region 4  
Fastest Growing Occupations  
2008-2018**

Occupational Title	Percent Change	Total Annual Openings	Average Wage Dec 2010**
Network Systems & Data Comm. Analysts	44.4%	77	\$33.50
Home Health Aides	40.7%	217	\$10.37
Physician Assistants	36.4%	18	\$43.18
Preschool Teachers, except Special Education	30.1%	110	\$10.58
Social and Human Service Assistants	30.0%	56	\$13.78
Self-Enrichment Education Teachers	28.0%	22	\$14.33
Dental Hygienists	26.8%	39	\$30.26
Dental Assistants	25.9%	50	\$17.90
Medical Assistants	25.2%	85	\$13.35
Market Research Analysts	24.8%	62	\$29.91
Employment, Recruitment & Placement Specialists	23.7%	29	\$24.64
Personal and Home Care Aides	23.7%	21	\$10.17
Mental Health & Substance Abuse Social Work.	23.5%	17	\$18.37
Computer Software Engineers, Applications	22.3%	74	\$39.34
Personal Financial Advisors	22.2%	9	\$34.83
Surgical Technologists	22.2%	21	\$19.99
Mental Health Counselors	21.2%	14	\$23.24
Instructional Coordinators	20.5%	31	\$33.54
Education Admin., Pre & Child Care Center/Prog.	20.0%	12	\$20.46
Compl. Off., ex. Agric, Con, Hlth/Safety, & Trans.	20.0%	18	\$24.21
Heating, AC, & Refrigeration Mechanics/Installers	19.6%	35	\$19.29
Coaches and Scouts	19.4%	40	\$24,340 ++
Public Relations Specialists	19.0%	27	\$24.97
Medical Equipment Repairers	19.0%	10	\$20.58
Pharmacy Technicians	18.6%	57	\$12.20
Medical Secretaries	18.0%	112	\$13.60
Network and Computer Systems Administrators	17.1%	53	\$28.93
Social and Community Service Managers	17.1%	17	\$28.58
Comp. Software Engineers, Systems Software	16.8%	47	\$44.41
Training and Development Specialists	16.7%	33	\$26.71

\*\* May 2009 wages statistically aged to December 2010.

++Annual earnings, typically 9 1/2 months for school teachers.

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, August 2011.



**Southwest Central Ohio - Economic Development Region 4  
Occupations with the Most Annual Openings  
2008-2018**

Occupational Title	Total Annual Openings	Average Wage Dec 2010**
Cashiers	589	\$9.14
Comb. Food Preparation & Serving Workers, inc. Fast Food	522	\$8.42
Waiters and Waitresses	505	\$8.75
Laborers and Freight, Stock, and Material Movers, Hand	463	\$11.96
Retail Salespersons	422	\$11.64
Registered Nurses	397	\$28.77
Customer Service Representatives	342	\$16.84
Truck Drivers, Heavy and Tractor-Trailer	284	\$19.36 OH
Home Health Aides	217	\$10.37
Janitors & Cleaners, except Maids & Housekeeping Cleaners	206	\$11.62
Licensed Practical and Licensed Vocational Nurses	186	\$19.95
Team Assemblers	183	\$14.10
Secondary School Teachers, except Special & Vocational Ed.	175	\$53,161 ++
Office Clerks, General	172	\$13.31
Stock Clerks and Order Fillers	166	\$11.66
Nursing Aides, Orderlies, and Attendants	163	\$11.88
Accountants and Auditors	153	\$31.76
Child Care Workers	151	\$10.04
Elementary School Teachers, Except Special Education	142	\$51,807 ++
First-Line Supervisors/Managers of Retail Sales Workers	125	\$18.17
Food Preparation Workers	124	\$10.13
Sales Rep., Wholesale & Mfg, ex. Tech. & Scientific Products	122	\$26.43
Teacher Assistants	120	\$26,229 ++
First-Line Supervisors/Managers of Office & Admin. Support	117	\$23.82
Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	116	\$8.70 OH
Medical Secretaries	112	\$13.60
Computer Support Specialists	111	\$19.19
Preschool Teachers, except Special Education	110	\$10.58
Tellers	106	\$12
Insurance Sales Agents	105	\$30.07

\*\* May 2009 wages statistically aged to December 2010.

++Annual earnings, typically 9 1/2 months for school teachers.

Statewide wage

++Statewide annual wage

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, August 2011.

**Southwest Central Ohio - Economic Development Region 4  
Occupational Employment\* Projections Report, 2008-2018**

Code	Occupational Title**	Employment		Change in Employment		Total Annual Openings**	Average Wage Dec 2010**	Education Training Level+
		2008 Annual	2018 Projected	2008 - 2018	Percent			
00-0000	Total, All Occupations	562,100	575,700	13,600	2.4%	15,762	\$24.74	NA
11-0000	Management Occupations	30,220	29,580	-640	-2.1%	610	NA	NA
11-1021	General and Operations Managers	3,130	2,770	-360	-11.5%	91	\$55.13	4
11-2021	Marketing Managers	400	420	20	5.0%	11	\$62.01	4
11-2022	Sales Managers	1,180	1,230	50	4.2%	30	\$53.40	4
11-2031	Public Relations Managers	100	110	10	10.0%	3	\$44.79	4
11-3011	Administrative Services Managers	840	880	40	4.8%	22	\$47.52	4
11-3021	Computer and Information Systems Managers	1,090	1,190	100	9.2%	28	\$60.99	4
11-3031	Financial Managers	1,420	1,410	-10	-0.7%	26	\$49.10	4
11-3049	Human Resources Managers, All Other	200	210	10	5.0%	5	\$50.14	4
11-3051	Industrial Production Managers	1,160	950	-210	-18.1%	41	\$45.95	8
11-3061	Purchasing Managers	270	240	-30	-11.1%	8	\$44.55	4
11-3071	Transportation, Storage, & Distribution Managers	440	400	-40	-9.1%	12	\$42.40 OH	8
11-9011	Farm, Ranch, and Other Agricultural Managers	440	450	10	2.3%	10	\$29.19 OH	4
11-9012	Farmers and Ranchers	9,310	8,900	-410	-4.4%	57	NA	9
11-9021	Construction Managers	1,330	1,450	120	9.0%	22	\$43.55	5
11-9031	Education Admin., Pre & Child Care Center/Prog.	250	300	50	20.0%	12	\$20.46	4
11-9039	Education Administrators, All Other	110	120	10	9.1%	4	\$42.04	4
11-9041	Engineering Managers	680	570	-110	-16.2%	14	\$53.15	4
11-9051	Food Service Managers	1,050	1,090	40	3.8%	24	\$23.90	8
11-9081	Lodging Managers	160	160	0	0.0%	3	\$26.21	8
11-9111	Medical and Health Services Managers	1,140	1,230	90	7.9%	31	\$40.70	4
11-9141	Property, Real Estate & Community Assn Mgrs	560	580	20	3.6%	12	\$26.24	5
11-9151	Social and Community Service Managers	410	480	70	17.1%	17	\$28.58	5
11-9199	Managers, All Other	1,870	1,880	10	0.5%	49	\$47.92	8
13-0000	Business and Financial Operations Occupations	23,950	26,050	2,100	8.8%	706	NA	NA
13-1022	Wholesale & Retail Buyers, ex. Farm Products	360	330	-30	-8.3%	9	\$23.03	9
13-1023	Purchasing Agents, ex. Whole., Retail, & Farm	1,960	2,050	90	4.6%	61	\$32.91	9
13-1031	Claims Adjusters, Examiners and Investigators	650	690	40	6.2%	20	\$28.59	9
13-1041	Compl. Off., ex. Agric, Con, Hlth/Safety, & Trans.	600	720	120	20.0%	18	\$24.21	9
13-1051	Cost Estimators	920	1,060	140	15.2%	35	\$30.11	5
13-1071	Employment, Recruitment & Placement Specialists	590	730	140	23.7%	29	\$24.64	5
13-1072	Comp., Benefits & Job Analysis Specialists	380	430	50	13.2%	15	\$25.41	5
13-1073	Training and Development Specialists	780	910	130	16.7%	33	\$26.71	5
13-1079	Human Resource/Training/Labor Rel. Spec., AO	1,320	1,490	170	12.9%	51	\$24.87	5
13-1081	Logisticians	710	760	50	7.0%	21	\$40.22	5
13-1111	Management Analysts	2,530	2,640	110	4.3%	55	\$38.56	4
13-1121	Meeting and Convention Planners	120	120	0	0.0%	3	\$19.02	5
13-1199	Business Operations Specialists, All Other	4,030	4,090	60	1.5%	95	\$34.30	5
13-2011	Accountants and Auditors	4,640	5,390	750	16.2%	153	\$31.76	5
13-2021	Appraisers and Assessors of Real Estate	350	350	0	0.0%	6	\$22.77	6
13-2031	Budget Analysts	250	280	30	12.0%	8	\$36.73	5
13-2041	Credit Analysts	150	170	20	13.3%	5	\$28.72 OH	5
13-2051	Financial Analysts	600	690	90	15.0%	20	\$31.80	5
13-2052	Personal Financial Advisors	270	330	60	22.2%	9	\$34.83	5
13-2053	Insurance Underwriters	380	370	-10	-2.6%	11	\$29.97 OH	5
13-2071	Loan Counselors	150	160	10	6.7%	3	\$20.52	5
13-2072	Loan Officers	740	810	70	9.5%	15	\$26.41	10
13-2081	Tax Examiners, Collectors & Revenue Agents	150	150	0	0.0%	5	\$28.93	5
13-2082	Tax Preparers	280	290	10	3.6%	6	\$18.16	10
13-2099	Financial Specialists, All Other	940	940	0	0.0%	17	\$35.81	5
15-0000	Computer and Mathematical Occupations	15,350	17,560	2,210	14.4%	516	NA	NA
15-1011	Computer and Information Scientists, Research	110	120	10	9.1%	3	\$46.32	2
15-1021	Computer Programmers	1,550	1,350	-200	-12.9%	29	\$33.67	5
15-1031	Computer Software Engineers, Applications	2,420	2,960	540	22.3%	74	\$39.34	5

\*Occupations with 100 or more workers.

\*\*See last page.

+See last page for Education Training Levels.

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**Southwest Central Ohio - Economic Development Region 4  
Occupational Employment\* Projections Report, 2008-2018**

Code	Occupational Title**	Employment		Change in Employment		Total Annual Openings**	Average Wage Dec 2010**	Education Training Level+
		2008 Annual	2018 Projected	2008 - 2018	Percent			
15-1032	Comp. Software Engineers, Systems Software	1,840	2,150	310	16.8%	47	\$44.41	5
15-1041	Computer Support Specialists	2,710	3,070	360	13.3%	111	\$19.19	6
15-1051	Computer Systems Analysts	1,980	2,230	250	12.6%	68	\$38.13	5
15-1061	Database Administrators	400	460	60	15.0%	13	\$34.63	5
15-1071	Network and Computer Systems Administrators	1,580	1,850	270	17.1%	53	\$28.93	5
15-1081	Network Systems & Data Comm. Analysts	1,240	1,790	550	44.4%	77	\$33.50	5
15-1099	Computer Specialists, All Other	1,230	1,260	30	2.4%	29	\$37.29	6
15-2031	Operations Research Analysts	140	150	10	7.1%	5	\$45.85	3
<b>17-0000</b>	<b>Architecture and Engineering Occupations</b>	<b>10,690</b>	<b>10,210</b>	<b>-480</b>	<b>-4.5%</b>	<b>252</b>	<b>NA</b>	<b>NA</b>
17-1011	Architects, except Landscape and Naval	130	130	0	0.0%	2	\$34.08	5
17-2051	Civil Engineers	840	940	100	11.9%	24	\$37.80	5
17-2061	Computer Hardware Engineers	150	150	0	0.0%	4	\$41.37	5
17-2071	Electrical Engineers	410	360	-50	-12.2%	9	\$38.55	5
17-2072	Electronics Engineers, except Computer	1,010	960	-50	-5.0%	23	\$48.87	5
17-2081	Environmental Engineers	110	110	0	0.0%	2	\$41.22	5
17-2112	Industrial Engineers	1,700	1,630	-70	-4.1%	43	\$36.43	5
17-2131	Materials Engineers	350	370	20	5.7%	10	\$49.96	5
17-2141	Mechanical Engineers	1,390	1,250	-140	-10.1%	36	\$34.86	5
17-2199	Engineers, All Other	1,160	1,080	-80	-6.9%	24	\$48.09	5
17-3011	Architectural and Civil Drafters	130	120	-10	-7.7%	3	\$23.02	7
17-3013	Mechanical Drafters	370	300	-70	-18.9%	8	\$23.54	7
17-3022	Civil Engineering Technicians	120	130	10	8.3%	3	\$22.53	6
17-3023	Electrical & Electronic Engineering Technicians	320	280	-40	-12.5%	6	\$24.04	6
17-3026	Industrial Engineering Technicians	420	380	-40	-9.5%	8	\$22.67	6
17-3027	Mechanical Engineering Technicians	250	220	-30	-12.0%	5	\$25.41	6
17-3029	Engineering Technicians, Exc. Drafters, AO	500	470	-30	-6.0%	10	\$20.08	6
17-3031	Surveying and Mapping Technicians	110	110	0	0.0%	2	\$20.78	10
<b>19-0000</b>	<b>Life, Physical, and Social Science Occupations</b>	<b>3,940</b>	<b>4,380</b>	<b>440</b>	<b>11.2%</b>	<b>171</b>	<b>NA</b>	<b>NA</b>
19-1012	Food Scientists and Technologists	100	110	10	10.0%	5	\$28.05	5
19-2012	Physicists	110	120	10	9.1%	4	\$52.59	2
19-2031	Chemists	230	230	0	0.0%	8	\$40.80	5
19-2041	Environmental Scientists/Specialists, inc. Health	250	260	10	4.0%	8	\$31.79	3
19-3021	Market Research Analysts	1,210	1,510	300	24.8%	62	\$29.91	5
19-3031	Clinical, Counseling and School Psychologists	270	290	20	7.4%	10	\$45.83	2
19-3039	Psychologists, All Other	100	100	0	0.0%	3	\$38.82 OH	3
19-3051	Urban and Regional Planners	110	120	10	9.1%	3	\$29.49	3
19-3099	Social Scientists & Related Workers, All Other	360	390	30	8.3%	21	\$34.52 OH	3
19-4031	Chemical Technicians	120	110	-10	-8.3%	2	\$19.02	6
<b>21-0000</b>	<b>Community and Social Services Occupations</b>	<b>9,900</b>	<b>11,240</b>	<b>1,340</b>	<b>13.5%</b>	<b>346</b>	<b>NA</b>	<b>NA</b>
21-1011	Substance Abuse & Behavioral Dis. Counselors	150	170	20	13.3%	5	\$20.15	5
21-1012	Educational, Vocational, & School Counselors	1,180	1,280	100	8.5%	34	\$28.39	3
21-1014	Mental Health Counselors	330	400	70	21.2%	14	\$23.24	3
21-1015	Rehabilitation Counselors	350	400	50	14.3%	12	\$20.79	3
21-1021	Child, Family and School Social Workers	1,150	1,320	170	14.8%	46	\$19.71	5
21-1022	Medical and Public Health Social Workers	550	610	60	10.9%	20	\$21.66	5
21-1023	Mental Health & Substance Abuse Social Work.	340	420	80	23.5%	17	\$18.37	3
21-1029	Social Workers, All Other	300	310	10	3.3%	9	\$22.27	5
21-1091	Health Educators	240	270	30	12.5%	8	\$20.60	5
21-1092	Probation Officers & Correct. Treatment Spec.	260	280	20	7.7%	8	\$21.95	5
21-1093	Social and Human Service Assistants	1,100	1,430	330	30.0%	56	\$13.78	10
21-1099	Community & Social Service Specialists, All Other	550	630	80	14.5%	20	\$19.24	5
21-2011	Clergy	2,520	2,760	240	9.5%	74	NA	3
<b>23-0000</b>	<b>Legal Occupations</b>	<b>3,020</b>	<b>3,050</b>	<b>30</b>	<b>1.0%</b>	<b>59</b>	<b>NA</b>	<b>NA</b>
23-1011	Lawyers	1,740	1,760	20	1.1%	34	\$54.29	1
23-1023	Judges, Magistrate Judges and Magistrates	220	200	-20	-9.1%	4	\$37.38	4

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**Southwest Central Ohio - Economic Development Region 4  
Occupational Employment\* Projections Report, 2008-2018**

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		2008 Annual	2018 Projected	2008 - 2018	Percent			
23-2011	Paralegals and Legal Assistants	520	580	60	11.5%	12	\$20.95	6
23-2099	Legal Support Workers, All Other	100	100	0	0.0%	1	\$24.54 OH	10
<b>25-0000</b>	<b>Education, Training, and Library Occupations</b>	<b>31,530</b>	<b>34,770</b>	<b>3,240</b>	<b>10.3%</b>	<b>1,043</b>	<b>NA</b>	<b>NA</b>
25-1011	Business Teachers, Postsecondary	340	370	30	8.8%	9	\$67,872 ++	2
25-1021	Computer Science Teachers, Postsecondary	200	220	20	10.0%	5	\$68,159 ++	2
25-1022	Mathematical Science Teachers, Postsecondary	250	280	30	12.0%	7	\$59,190 ++	2
25-1032	Engineering Teachers, Postsecondary	260	290	30	11.5%	8	\$78,640 ++	2
25-1042	Biological Science Teachers, Postsecondary	210	230	20	9.5%	6	\$74,602 ++	2
25-1066	Psychology Teachers, Postsecondary	180	190	10	5.6%	4	\$62,358 ++	2
25-1071	Health Specialties Teachers, Postsecondary	470	520	50	10.6%	13	\$96,116 ++	2
25-1072	Nursing Instructors and Teachers, Postsecondary	260	290	30	11.5%	8	\$59,706 ++	2
25-1081	Education Teachers, Postsecondary	190	200	10	5.3%	4	\$56,439 ++	2
25-1121	Art, Drama, and Music Teachers, Postsecondary	430	470	40	9.3%	11	\$87,760 ++	2
25-1122	Communications Teachers, Postsecondary	150	170	20	13.3%	5	\$75,414 ++	2
25-1123	English Language/Literature Teachers, Postsecondary	320	360	40	12.5%	10	\$61,626 ++	2
25-1125	History Teachers, Postsecondary	120	130	10	8.3%	3	\$57,385 ++	2
25-1126	Philosophy and Religion Teachers, Postsecondary	140	150	10	7.1%	3	\$62,928 ++	2
25-1193	Recreation/Fitness Studies Teachers, Postsecondary	160	170	10	6.3%	4	\$49,284 ++	2
25-1194	Vocational Education Teachers, Postsecondary	460	510	50	10.9%	13	\$23.01	2
25-2011	Preschool Teachers, except Special Education	2,190	2,850	660	30.1%	110	\$10.58	7
25-2012	Kindergarten Teachers, ex. Special Education	320	350	30	9.4%	9	\$49,602 ++	5
25-2021	Elementary School Teachers, ex. Special Ed.	4,200	4,660	460	11.0%	142	\$51,807 ++	5
25-2022	Middle School Teachers, ex. Special & Voc. Ed.	2,200	2,430	230	10.5%	73	\$50,467 ++	5
25-2031	Secondary Sch. Teachers, ex. Spec. & Voc. Ed.	5,250	5,470	220	4.2%	175	\$53,161 ++	5
25-2032	Vocational Education Teachers, Secondary Sch.	430	450	20	4.7%	15	\$62,308 ++	4
25-2042	Special Education Teachers, Middle School	750	850	100	13.3%	29	\$51,553 ++	5
25-2043	Special Education Teachers, Secondary School	890	960	70	7.9%	30	\$53,047 ++	5
25-3011	Adult Literacy, Remedial Ed., & GED Teachers	410	460	50	12.2%	11	\$23.33	5
25-3021	Self-Enrichment Education Teachers	500	640	140	28.0%	22	\$14.33	8
25-3099	Teachers and Instructors, All Other	1,500	1,640	140	9.3%	37	\$45,313 ++	5
25-4013	Museum Technicians and Conservators	140	160	20	14.3%	6	\$22.06 OH	5
25-4021	Librarians	580	580	0	0.0%	15	\$25.35	3
25-4031	Library Technicians	670	680	10	1.5%	31	\$14.20	7
25-9031	Instructional Coordinators	730	880	150	20.5%	31	\$33.54	3
25-9041	Teacher Assistants	4,310	4,600	290	6.7%	120	\$26,229 ++	11
25-9099	Education, Training and Library Workers, AO	810	880	70	8.6%	25	\$14.26 OH	5
<b>27-0000</b>	<b>Arts, Design, Entertainment, Sports, &amp; Media Occ.</b>	<b>9,330</b>	<b>9,860</b>	<b>530</b>	<b>5.7%</b>	<b>303</b>	<b>NA</b>	<b>NA</b>
27-1011	Art Directors	380	420	40	10.5%	12	\$37.33	4
27-1021	Commercial and Industrial Designers	230	220	-10	-4.3%	7	\$28.24 OH	5
27-1023	Floral Designers	470	420	-50	-10.6%	14	\$10.33	11
27-1024	Graphic Designers	1,120	1,220	100	8.9%	45	\$20.44	5
27-1025	Interior Designers	140	140	0	0.0%	4	\$21.54	6
27-1029	Designers, All Other	130	120	-10	-7.7%	4	\$17.36 OH	5
27-2012	Producers and Directors	180	180	0	0.0%	6	\$27.03	4
27-2022	Coaches and Scouts	1,030	1,230	200	19.4%	40	\$24,340 ++	9
27-2041	Music Directors and Composers	200	220	20	10.0%	6	\$25.14	4
27-2042	Musicians and Singers	900	930	30	3.3%	21	\$26.82 OH	9
27-3011	Radio and Television Announcers	140	130	-10	-7.1%	4	\$14.74 OH	9
27-3022	Reporters and Correspondents	300	280	-20	-6.7%	8	\$15.22	5
27-3031	Public Relations Specialists	630	750	120	19.0%	27	\$24.97	5
27-3041	Editors	540	600	60	11.1%	20	\$24.66	5
27-3042	Technical Writers	190	200	10	5.3%	4	\$21.74	5
27-3091	Interpreters and Translators	180	200	20	11.1%	6	\$21.94	9
27-4012	Broadcast Technicians	140	130	-10	-7.1%	4	\$16.68	6
27-4021	Photographers	600	560	-40	-6.7%	12	\$14.85 OH	9

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**Southwest Central Ohio - Economic Development Region 4  
Occupational Employment\* Projections Report, 2008-2018**

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		2008 Annual	2018 Projected	2008 - 2018	Percent			
<b>29-0000</b>	<b>Healthcare Practitioners and Technical Occupations</b>	<b>32,190</b>	<b>36,420</b>	<b>4,230</b>	<b>13.1%</b>	<b>1,091</b>	<b>NA</b>	<b>NA</b>
29-1021	Dentists, General	430	460	30	7.0%	15	\$80.96	1
29-1031	Dietitians and Nutritionists	210	200	-10	-4.8%	7	\$25.29	5
29-1051	Pharmacists	890	940	50	5.6%	25	\$52.84	1
29-1061	Anesthesiologists	150	180	30	20.0%	6	\$112.26 OH	1
29-1062	Family and General Practitioners	660	780	120	18.2%	24	\$69.83	1
29-1063	Internists, General	230	280	50	21.7%	9	\$101.29	1
29-1065	Pediatricians, General	110	130	20	18.2%	4	\$68.74	1
29-1067	Surgeons	310	370	60	19.4%	11	\$108.74	1
29-1069	Physicians and Surgeons, All Other	1,220	1,390	170	13.9%	38	\$97.93	1
29-1071	Physician Assistants	330	450	120	36.4%	18	\$43.18	3
29-1111	Registered Nurses	12,330	14,140	1,810	14.7%	397	\$28.77	6
29-1122	Occupational Therapists	300	330	30	10.0%	9	\$37.20	3
29-1123	Physical Therapists	570	650	80	14.0%	15	\$36.68	3
29-1126	Respiratory Therapists	630	720	90	14.3%	21	\$24.72	6
29-1127	Speech-Language Pathologists	350	380	30	8.6%	9	\$38.84	3
29-1129	Therapists, All Other	140	140	0	0.0%	3	\$26.32 OH	5
29-1131	Veterinarians	190	200	10	5.3%	4	\$39.18	1
29-2011	Medical and Clinical Laboratory Technologists	600	650	50	8.3%	16	\$25.49 OH	5
29-2012	Medical and Clinical Laboratory Technicians	410	450	40	9.8%	12	\$19.65	6
29-2021	Dental Hygienists	820	1,040	220	26.8%	39	\$30.26	6
29-2031	Cardiovascular Technologists and Technicians	170	190	20	11.8%	4	\$22.06	6
29-2032	Diagnostic Medical Sonographers	280	320	40	14.3%	8	\$29.37	6
29-2033	Nuclear Medicine Technologists	130	140	10	7.7%	3	\$31.27 OH	6
29-2034	Radiologic Technologists and Technicians	1,080	1,160	80	7.4%	24	\$24.29	6
29-2041	Emergency Medical Technicians & Paramedics	540	540	0	0.0%	11	\$12.56	7
29-2051	Dietetic Technicians	120	130	10	8.3%	4	\$18.91	7
29-2052	Pharmacy Technicians	1,290	1,530	240	18.6%	57	\$12.20	10
29-2055	Surgical Technologists	450	550	100	22.2%	21	\$19.99	7
29-2056	Veterinary Technologists and Technicians	250	260	10	4.0%	7	\$14.41	6
29-2061	Licensed Practical & Licensed Vocat. Nurses	4,200	4,750	550	13.1%	186	\$19.95	7
29-2071	Medical Records & Health Info. Technicians	750	820	70	9.3%	22	\$14.87	6
29-2081	Opticians, Dispensing	210	200	-10	-4.8%	4	\$16.48	9
29-2099	Health Technologists & Technicians, All Other	460	490	30	6.5%	12	\$18.95	7
29-9011	Occupational Health and Safety Specialists	240	240	0	0.0%	8	\$32.22	5
29-9099	Healthcare Practitioners & Technical Workers, AO	150	160	10	6.7%	6	\$21.40 OH	5
<b>31-0000</b>	<b>Healthcare Support Occupations</b>	<b>19,200</b>	<b>22,700</b>	<b>3,500</b>	<b>18.2%</b>	<b>567</b>	<b>NA</b>	<b>NA</b>
31-1011	Home Health Aides	4,280	6,020	1,740	40.7%	217	\$10.37	11
31-1012	Nursing Aides, Orderlies, and Attendants	8,660	9,430	770	8.9%	163	\$11.88	7
31-2011	Occupational Therapist Assistants	140	160	20	14.3%	4	\$26.09	6
31-2021	Physical Therapist Assistants	270	310	40	14.8%	8	\$26.32	6
31-9011	Massage Therapists	260	300	40	15.4%	7	\$13.69	7
31-9091	Dental Assistants	1,120	1,410	290	25.9%	50	\$17.90	10
31-9092	Medical Assistants	2,340	2,930	590	25.2%	85	\$13.35	10
31-9094	Medical Transcriptionists	510	500	-10	-2.0%	6	\$16.19	7
31-9095	Pharmacy Aides	250	200	-50	-20.0%	3	\$10.76	11
31-9099	Healthcare Support Workers, All Other	760	810	50	6.6%	14	\$14.52	11
<b>33-0000</b>	<b>Protective Service Occupations</b>	<b>9,530</b>	<b>9,760</b>	<b>230</b>	<b>2.4%</b>	<b>311</b>	<b>NA</b>	<b>NA</b>
33-1012	First-Line Superv./Mgrs of Police & Detectives	310	310	0	0.0%	14	\$35.11 OH	8
33-1021	FL Sup/Mgrs of Fire Fighting & Prev. Workers	230	230	0	0.0%	12	\$32.21	8
33-2011	Fire Fighters	1,850	2,020	170	9.2%	74	\$20.20 OH	9
33-3011	Bailliffs	100	100	0	0.0%	2	\$23.31	10
33-3012	Correctional Officers and Jailers	650	640	-10	-1.5%	14	\$19.32	10
33-3021	Detectives and Criminal Investigators	200	220	20	10.0%	6	\$32.49	8
33-3051	Police and Sheriff's Patrol Officers	2,000	2,000	0	0.0%	52	\$26.65	9

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Occupational Employment\* Projections Report, 2008-2018**

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		2008 Annual	2018 Projected	2008 - 2018	Percent			
33-9021	Private Detectives and Investigators	110	120	10	9.1%	3	\$21.46 OH	8
33-9032	Security Guards	2,770	2,810	40	1.4%	61	\$12.06	11
33-9092	Lifeguards/Ski Patrol/Rec. Prot. Serv. Wrks	530	560	30	5.7%	39	\$8.71	11
33-9099	Protective Service Workers, All Other	260	270	10	3.8%	19	\$16.10 OH	11
<b>35-0000</b>	<b>Food Preparation and Serving Related Occupations</b>	<b>47,230</b>	<b>50,320</b>	<b>3,090</b>	<b>6.5%</b>	<b>1,856</b>	<b>NA</b>	<b>NA</b>
35-1011	Chefs and Head Cooks	100	100	0	0.0%	1	\$23.39	8
35-1012	FL Sup/Mgrs of Food Prep. & Serving Workers	2,950	3,070	120	4.1%	40	\$14.88	8
35-2011	Cooks, Fast Food	1,750	1,830	80	4.6%	53	\$9.02	11
35-2012	Cooks, Institution and Cafeteria	2,360	2,420	60	2.5%	66	\$12.47	10
35-2014	Cooks, Restaurant	3,080	3,230	150	4.9%	94	\$10.09	9
35-2015	Cooks, Short Order	930	910	-20	-2.2%	24	\$9.53	11
35-2021	Food Preparation Workers	3,250	3,330	80	2.5%	124	\$10.13	11
35-3011	Bartenders	1,950	2,090	140	7.2%	83	\$9.04	11
35-3021	Comb. Food Prep. & Serv. Work, inc. Fast Food	15,950	17,790	1,840	11.5%	522	\$8.42	11
35-3022	Counter Attend., Caf�/Food Concess/Coffee Sh.	910	940	30	3.3%	70	\$10.64	11
35-3031	Waiters and Waitresses	8,580	8,900	320	3.7%	505	\$8.75	11
35-3041	Food Servers, Nonrestaurant	1,150	1,230	80	7.0%	28	\$9.88	11
35-9011	Dining Room & Cafeteria Attend. & Bar Helpers	1,420	1,440	20	1.4%	63	\$8.93	11
35-9021	Dishwashers	1,160	1,260	100	8.6%	58	\$8.48	11
35-9031	Hosts & Hostesses, Rest./Lounge/Coffee Shop	1,550	1,630	80	5.2%	116	\$8.70 OH	11
<b>37-0000</b>	<b>Building &amp; Grounds Cleaning &amp; Maintenance Occup.</b>	<b>18,690</b>	<b>19,070</b>	<b>380</b>	<b>2.0%</b>	<b>373</b>	<b>NA</b>	<b>NA</b>
37-1011	FL Sup/Mgrs of Housekping & Janitorial Workers	690	720	30	4.3%	10	\$17.66	8
37-1012	FL Sup/Mgrs of Lndscap./Lawn Ser/Groundskp	600	640	40	6.7%	11	\$21.37	8
37-2011	Janitors & Cleaners, ex. Maids/Hsekping Clean.	10,040	10,200	160	1.6%	206	\$11.62	11
37-2012	Maids and Housekeeping Cleaners	3,780	3,620	-160	-4.2%	68	\$9.60	11
37-3011	Landscaping and Groundskeeping Workers	3,160	3,440	280	8.9%	66	\$12.10	11
<b>39-0000</b>	<b>Personal Care and Service Occupations</b>	<b>12,390</b>	<b>13,760</b>	<b>1,370</b>	<b>11.1%</b>	<b>447</b>	<b>NA</b>	<b>NA</b>
39-1021	First-Line Sup/Mgrs of Personal Serv. Workers	560	590	30	5.4%	18	\$18.88	8
39-3031	Ushers, Lobby Attendants and Ticket Takers	220	210	-10	-4.5%	14	\$9.04 OH	11
39-3091	Amusement and Recreation Attendants	630	650	20	3.2%	35	\$8.95 OH	11
39-3099	Entertainment Attendants & Related Workers, All Other	160	170	10	6.3%	9	\$9.31	10
39-5012	Hairdressers, Hairstylists and Cosmetologists	2,820	3,090	270	9.6%	68	\$11.86	7
39-6021	Tour Guides and Escorts	110	100	-10	-9.1%	5	\$10.99 OH	10
39-9011	Child Care Workers	3,360	3,890	530	15.8%	151	\$10.04	11
39-9021	Personal and Home Care Aides	590	730	140	23.7%	21	\$10.17	11
39-9031	Fitness Trainers and Aerobics Instructors	500	570	70	14.0%	16	\$12.96 OH	7
39-9032	Recreation Workers	1,480	1,600	120	8.1%	39	\$12.38	11
39-9041	Residential Advisors	160	180	20	12.5%	8	\$16.43 OH	11
39-9099	Personal Care and Service Workers, All Other	340	410	70	20.6%	15	\$9.97 OH	11
<b>41-0000</b>	<b>Sales and Related Occupations</b>	<b>54,340</b>	<b>53,570</b>	<b>-770</b>	<b>-1.4%</b>	<b>1,703</b>	<b>NA</b>	<b>NA</b>
41-1011	First-Line Superv./Mgrs of Retail Sales Workers	5,810	5,710	-100	-1.7%	125	\$18.17	8
41-1012	First-Line Sup./Mgrs of Non-Retail Sales Workers	1,670	1,630	-40	-2.4%	35	\$33.86	8
41-2011	Cashiers	13,100	12,640	-460	-3.5%	589	\$9.14	11
41-2021	Counter and Rental Clerks	1,460	1,370	-90	-6.2%	39	\$11.62	11
41-2031	Retail Salespersons	15,140	15,070	-70	-0.5%	422	\$11.64	11
41-3011	Advertising Sales Agents	520	540	20	3.8%	12	\$27.39	10
41-3021	Insurance Sales Agents	2,680	3,110	430	16.0%	105	\$30.07	7
41-3031	Securities/Commodities/Fin. Serv. Sales Agents	970	1,040	70	7.2%	37	\$27.00	5
41-3041	Travel Agents	290	180	-110	-37.9%	2	\$13.87 OH	7
41-3099	Sales Representatives, Services, All Other	1,610	1,740	130	8.1%	53	\$26.40	8
41-4011	Sales Rep., Wholesale & Mfg, Tech./Sci. Prod.	1,420	1,480	60	4.2%	39	\$34.16	8
41-4012	Sales Rep., Wholesale/Mfg, ex. Tech./Sci. Prod.	5,270	5,220	-50	-0.9%	122	\$26.43	8
41-9011	Demonstrators and Product Promoters	200	210	10	5.0%	7	\$10.88	10
41-9022	Real Estate Sales Agents	440	500	60	13.6%	13	\$24.56 OH	7
41-9031	Sales Engineers	260	260	0	0.0%	9	\$42.83	5

\*Occupations with 100 or more workers.

\*\*See last page.

+See last page for Education Training Levels.

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**Southwest Central Ohio - Economic Development Region 4  
Occupational Employment\* Projections Report, 2008-2018**

Code	Occupational Title**	Employment		Change in Employment		Total Annual Openings**	Average Wage Dec 2010**	Education Training Level+
		2008 Annual	2018 Projected	2008 - 2018	Percent			
41-9041	Telemarketers	1,900	1,360	-540	-28.4%	48	\$10.91 OH	11
41-9099	Sales and Related Workers, All Other	640	640	0	0.0%	14	\$20.33	10
<b>43-0000</b>	<b>Office and Administrative Support Occupations</b>	<b>83,560</b>	<b>83,860</b>	<b>300</b>	<b>0.4%</b>	<b>2,072</b>	<b>NA</b>	<b>NA</b>
43-1011	First-Line Sup/Mgrs of Office & Admin. Support	4,530	4,680	150	3.3%	117	\$23.82	8
43-2011	Switchboard Operators, inc. Answering Service	380	320	-60	-15.8%	8	\$12.73	11
43-3011	Bill and Account Collectors	1,620	1,680	60	3.7%	37	\$15.03 OH	11
43-3021	Billing & Posting Clerks & Machine Operators	2,260	2,470	210	9.3%	58	\$15.32	11
43-3031	Bookkeeping, Accounting, and Auditing Clerks	6,730	6,920	190	2.8%	100	\$16.02	10
43-3051	Payroll and Timekeeping Clerks	650	540	-110	-16.9%	15	\$17.14	10
43-3061	Procurement Clerks	370	360	-10	-2.7%	11	\$17.51	10
43-3071	Tellers	2,270	2,400	130	5.7%	106	\$12.14	11
43-4011	Brokerage Clerks	110	100	-10	-9.1%	3	\$18.42	10
43-4031	Court, Municipal, and License Clerks	690	690	0	0.0%	20	\$16.17	11
43-4041	Credit Authorizers, Checkers and Clerks	270	250	-20	-7.4%	8	\$17.69	11
43-4051	Customer Service Representatives	8,110	8,980	870	10.7%	342	\$16.84	10
43-4061	Eligibility Interviewers, Government Programs	280	280	0	0.0%	7	\$18.37	10
43-4071	File Clerks	620	460	-160	-25.8%	15	\$12.84	11
43-4081	Hotel, Motel and Resort Desk Clerks	760	840	80	10.5%	34	\$8.60	11
43-4111	Interviewers, except Eligibility and Loan	780	820	40	5.1%	23	\$13.80	11
43-4121	Library Assistants, Clerical	860	880	20	2.3%	38	\$11.26	11
43-4131	Loan Interviewers and Clerks	600	620	20	3.3%	17	\$17.02	11
43-4141	New Accounts Clerks	270	260	-10	-3.7%	8	\$15.25	8
43-4151	Order Clerks	620	390	-230	-37.1%	18	\$14.36	11
43-4161	Human Resources Assis., ex. Payroll & Timekp	490	420	-70	-14.3%	14	\$17.67	11
43-4171	Receptionists and Information Clerks	3,000	3,160	160	5.3%	97	\$11.50	11
43-4181	Reservation/Trans. Ticket Agents & Travel Clerks	170	180	10	5.9%	5	\$15.69 OH	11
43-4199	Information and Record Clerks, All Other	1,070	850	-220	-20.6%	30	\$17.82	11
43-5011	Cargo and Freight Agents	110	120	10	9.1%	4	\$18.03 OH	10
43-5021	Couriers and Messengers	470	510	40	8.5%	15	\$12.36	11
43-5031	Police, Fire, and Ambulance Dispatchers	390	420	30	7.7%	11	\$17.97 OH	10
43-5032	Dispatchers, except Police, Fire and Ambulance	1,140	1,070	-70	-6.1%	24	\$18.36	10
43-5051	Postal Service Clerks	280	200	-80	-28.6%	6	\$25.79	11
43-5052	Postal Service Mail Carriers	1,490	1,300	-190	-12.8%	46	\$24.30	11
43-5053	Postal Service Mail Sorters/Proc/Proc Mach. Op.	500	310	-190	-38.0%	5	\$23.03	11
43-5061	Production, Planning, and Expediting Clerks	1,330	1,220	-110	-8.3%	33	\$20.40	10
43-5071	Shipping, Receiving, and Traffic Clerks	3,850	3,400	-450	-11.7%	96	\$14.83 OH	11
43-5081	Stock Clerks and Order Fillers	7,180	7,110	-70	-1.0%	166	\$11.66	11
43-5111	Weighers/Meas./Checkers/Samplers, Recordkp	130	100	-30	-23.1%	4	\$14.14	11
43-6011	Executive Secretaries & Administrative Assistants	4,330	4,560	230	5.3%	81	\$19.35	8
43-6012	Legal Secretaries	980	980	0	0.0%	13	\$16.95	6
43-6013	Medical Secretaries	3,560	4,200	640	18.0%	112	\$13.60	10
43-6014	Secretaries, except Legal, Medical & Executive	6,290	5,990	-300	-4.8%	85	\$15.50	10
43-9011	Computer Operators	250	180	-70	-28.0%	3	\$16.75	10
43-9021	Data Entry Keyers	900	780	-120	-13.3%	19	\$11.75	10
43-9022	Word Processors and Typists	460	400	-60	-13.0%	4	\$16.44 OH	10
43-9041	Insurance Claims and Policy Processing Clerks	670	670	0	0.0%	9	\$18.30	10
43-9051	Mail Clerks & Mail Machine Op., ex. Postal Serv.	530	450	-80	-15.1%	10	\$12.56 OH	11
43-9061	Office Clerks, General	10,040	10,390	350	3.5%	172	\$13.31	11
43-9071	Office Machine Operators, except Computer	210	170	-40	-19.0%	7	\$13.56 OH	11
43-9199	Office & Administrative Support Workers, All Other	610	500	-110	-18.0%	14	\$17.50	11
<b>45-0000</b>	<b>Farming, Fishing, and Forestry Occupations</b>	<b>1,970</b>	<b>1,910</b>	<b>-60</b>	<b>-3.0%</b>	<b>55</b>	<b>NA</b>	<b>NA</b>
45-2092	Farmworkers/Laborers, Crop/Nursery/Greenhse	550	560	10	1.8%	16	\$10.67 OH	11
<b>47-0000</b>	<b>Construction and Extraction Occupations</b>	<b>18,600</b>	<b>19,430</b>	<b>830</b>	<b>4.5%</b>	<b>413</b>	<b>NA</b>	<b>NA</b>
47-1011	First-Line Sup/Mgrs of Con. Trades/Extract. Work	1,480	1,570	90	6.1%	38	\$29.57	8
47-2021	Brickmasons and Blockmasons	350	360	10	2.9%	10	\$24.54 OH	9

\*Occupations with 100 or more workers.

\*\*See last page.

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**Southwest Central Ohio - Economic Development Region 4  
Occupational Employment\* Projections Report, 2008-2018**

Code	Occupational Title**	Employment		Change in Employment		Total Annual Openings**	Average Wage Dec 2010**	Education Training Level+
		2008 Annual	2018 Projected	2008 - 2018	Percent			
47-2031	Carpenters	4,000	4,150	150	3.8%	65	\$19.60	9
47-2044	Tile and Marble Setters	130	140	10	7.7%	4	\$19.12 OH	9
47-2051	Cement Masons and Concrete Finishers	540	530	-10	-1.9%	14	\$19.56	10
47-2061	Construction Laborers	2,730	3,070	340	12.5%	52	\$17.07	10
47-2071	Paving, Surfacing, & Tamping Equip. Operators	200	210	10	5.0%	4	\$17.57	10
47-2073	Operating Engineers & Other Con. Equip. Op.	1,130	1,190	60	5.3%	25	\$22.69	10
47-2081	Drywall and Ceiling Tile Installers	160	180	20	12.5%	4	\$17.37 OH	10
47-2111	Electricians	1,720	1,760	40	2.3%	46	\$21.53	9
47-2141	Painters, Construction and Maintenance	740	750	10	1.4%	14	\$19.38 OH	10
47-2152	Plumbers, Pipefitters and Steamfitters	1,200	1,240	40	3.3%	28	\$21.30	9
47-2181	Roofers	330	320	-10	-3.0%	5	\$18.74 OH	10
47-2211	Sheet Metal Workers	400	390	-10	-2.5%	9	\$20.51	9
47-2221	Structural Iron and Steel Workers	270	270	0	0.0%	4	\$25.71 OH	9
47-4011	Construction and Building Inspectors	200	210	10	5.0%	5	\$26.66	8
47-4051	Highway Maintenance Workers	860	850	-10	-1.2%	23	\$19.20	10
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	120	140	20	16.7%	5	\$19.05	10
47-4099	Construction and Related Workers, All Other	170	170	0	0.0%	6	\$15.81	10
<b>49-0000</b>	<b>Installation, Maintenance, and Repair Occupations</b>	<b>19,940</b>	<b>19,740</b>	<b>-200</b>	<b>-1.0%</b>	<b>430</b>	<b>NA</b>	<b>NA</b>
49-1011	FL Sup/Mgrs of Mechanics/Installers/Repairers	1,630	1,560	-70	-4.3%	43	\$29.96	8
49-2011	Computer, ATM, & Office Machine Repairers	430	400	-30	-7.0%	7	\$18.20 OH	7
49-2022	Telecomm. Equip. Install/Repair, ex. Line Install	390	430	40	10.3%	11	\$26.44 OH	7
49-2092	Electric Motor, Power Tool, & Related Repairers	190	190	0	0.0%	7	\$21.15	7
49-2094	Electrical/Electronics Repair, Comm/Indus Equip.	260	230	-30	-11.5%	4	\$24.35 OH	7
49-2097	Electronic Home Entertainm Equip. Install/Repair	200	200	0	0.0%	3	\$16.33 OH	7
49-2098	Security and Fire Alarm Systems Installers	140	150	10	7.1%	3	\$17.67	7
49-3011	Aircraft Mechanics and Service Technicians	490	470	-20	-4.1%	9	\$25.16 OH	7
49-3021	Automotive Body and Related Repairers	620	570	-50	-8.1%	16	\$19.13 OH	9
49-3023	Automotive Service Technicians and Mechanics	2,730	2,500	-230	-8.4%	52	\$17.77	7
49-3031	Bus & Truck Mechanics & Diesel Engine Spec.	1,120	1,160	40	3.6%	30	\$18.63	7
49-3042	Mobile Heavy Equip. Mechanics, ex. Engines	250	270	20	8.0%	7	\$23.10	9
49-3093	Tire Repairers and Changers	200	170	-30	-15.0%	4	\$11.64	11
49-9021	Heating, AC, & Refrigeration Mechanics/Installers	970	1,160	190	19.6%	35	\$19.29	7
49-9031	Home Appliance Repairers	230	210	-20	-8.7%	4	\$17.98	9
49-9041	Industrial Machinery Mechanics	1,190	1,170	-20	-1.7%	17	\$23.82	9
49-9042	Maintenance and Repair Workers, General	5,490	5,530	40	0.7%	89	\$17.69	10
49-9043	Maintenance Workers, Machinery	230	200	-30	-13.0%	4	\$19.94	10
49-9044	Millwrights	150	120	-30	-20.0%	3	\$24.44	9
49-9051	Electrical Power-Line Installers and Repairers	210	190	-20	-9.5%	8	\$25.09 OH	9
49-9052	Telecommunications Line Installers & Repairers	420	460	40	9.5%	11	\$18.38	9
49-9062	Medical Equipment Repairers	210	250	40	19.0%	10	\$20.58	6
49-9091	Coin/Vending/Amusement Machine Serv/Repair	340	350	10	2.9%	12	\$13.06 OH	10
49-9098	Helpers--Installation/Maintenance/Repair Workers	320	310	-10	-3.1%	16	\$12.57	11
49-9099	Installation/Maintenance/Repair Workers, AO	650	650	0	0.0%	10	\$16.03	10
<b>51-0000</b>	<b>Production Occupations</b>	<b>59,730</b>	<b>51,180</b>	<b>-8,550</b>	<b>-14.3%</b>	<b>1,182</b>	<b>NA</b>	<b>NA</b>
51-1011	FL Sup/Mgrs of Production/Operating Workers	4,140	3,510	-630	-15.2%	56	\$25.97	8
51-2022	Electrical & Electronic Equipment Assemblers	780	560	-220	-28.2%	12	\$15.62	11
51-2023	Electromechanical Equipment Assemblers	380	290	-90	-23.7%	6	\$14.90 OH	11
51-2031	Engine and Other Machine Assemblers	330	270	-60	-18.2%	7	\$19.21	11
51-2041	Structural Metal Fabricators and Fitters	440	390	-50	-11.4%	9	\$16.77	10
51-2092	Team Assemblers	8,120	7,090	-1,030	-12.7%	183	\$14.10	10
51-2099	Assemblers and Fabricators, All Other	1,820	1,640	-180	-9.9%	41	\$18.08 OH	10
51-3011	Bakers	460	450	-10	-2.2%	12	\$11.58 OH	9
51-3021	Butchers and Meat Cutters	560	570	10	1.8%	19	\$13.97	9
51-3092	Food Batchmakers	190	220	30	15.8%	8	\$12.82	11
51-3093	Food Cooking Machine Operators and Tenders	120	130	10	8.3%	5	\$11.44 OH	11

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Occupational Employment\* Projections Report, 2008-2018**

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		2008 Annual	2018 Projected	2008 - 2018	Percent			
51-4011	Computer-Controlled Machine Tool Oper., M/P	2,870	2,520	-350	-12.2%	56	\$19.19	10
51-4012	Numerical Tool & Process Control Programmers	190	140	-50	-26.3%	4	\$22.72	8
51-4023	Rolling Machine Setters/Operators/Tenders, M/P	160	150	-10	-6.3%	3	\$17.84	10
51-4031	Cutting/Punching/Press Machine S/O/T, M/P	1,850	1,390	-460	-24.9%	37	\$14.45	10
51-4032	Drilling & Boring Machine Tool Setters, O/T, M/P	350	230	-120	-34.3%	3	\$16.15	10
51-4033	Grind/Lapping/Polish/Buf Mach. Tool S/O/T, M/P	1,080	830	-250	-23.1%	16	\$16.41	10
51-4034	Lathe & Turning Machine Tool Setters, O/T, M/P	430	290	-140	-32.6%	7	\$17.14	10
51-4035	Milling & Planing Machine Setters, O/T, M/P	230	180	-50	-21.7%	5	\$17.11	10
51-4041	Machinists	4,130	3,520	-610	-14.8%	55	\$17.06	9
51-4071	Foundry Mold and Coremakers	260	210	-50	-19.2%	5	\$15.17 OH	10
51-4072	Molding/Coremaking/Casting Mach. S/O/T, M/P	2,010	1,630	-380	-18.9%	42	\$13.51	10
51-4081	Multiple Machine Tool Setters, O/T, M/P	800	560	-240	-30.0%	16	\$17.51 OH	10
51-4121	Welders, Cutters, Solderers, and Brazers	1,910	1,620	-290	-15.2%	59	\$16.93	7
51-4122	Welding/Soldering/Brazing Machine Setters, O/T	1,240	900	-340	-27.4%	38	\$16.61 OH	7
51-4193	Plating & Coating Machine Setters, O/T, M/P	250	200	-50	-20.0%	7	\$14.60	10
51-4194	Tool Grinders, Filers, and Sharpeners	140	120	-20	-14.3%	4	\$18.68	10
51-4199	Metal Workers and Plastic Workers, All Other	1,320	1,020	-300	-22.7%	18	\$13.85	10
51-5011	Bindery Workers	190	120	-70	-36.8%	3	\$13.87 OH	11
51-5021	Job Printers	350	240	-110	-31.4%	1	\$15.67 OH	9
51-5022	Prepress Technicians and Workers	220	150	-70	-31.8%	3	\$20.86	7
51-5023	Printing Machine Operators	870	690	-180	-20.7%	18	\$14.96	10
51-6011	Laundry and Dry-Cleaning Workers	870	840	-30	-3.4%	15	\$9.74	10
51-6021	Pressers, Textile, Garment & Related Materials	370	300	-70	-18.9%	2	\$9.66	11
51-6031	Sewing Machine Operators	740	490	-250	-33.8%	4	\$11.04	10
51-7011	Cabinetmakers and Bench Carpenters	640	660	20	3.1%	16	\$14.45 OH	9
51-7041	Sawing Mach. Setters/Operators/Tenders, Wood	100	100	0	0.0%	2	\$13.53	10
51-7042	Woodworking Machine Setters, O/T, ex. Sawing	180	190	10	5.6%	5	\$12.51 OH	10
51-8021	Stationary Engineers and Boiler Operators	110	110	0	0.0%	2	\$25.37 OH	9
51-8031	Water/Liquid Waste Treatment Plant/System Op.	380	410	30	7.9%	11	\$20.99	9
51-9022	Grinding and Polishing Workers, Hand	400	390	-10	-2.5%	7	\$14.20	10
51-9023	Mixing/Blending Mach. Setter/Operator/Tenders	650	750	100	15.4%	21	\$18.40	10
51-9032	Cutting/Slicing Mach. Setters/Operators/Tenders	310	250	-60	-19.4%	7	\$13.59	10
51-9041	Extrud/Form/Pressing/Compacting Mach. S/O/T	1,000	1,060	60	6.0%	27	\$13.61	10
51-9061	Inspectors/Testers/Sorters/Samplers/Weighers	2,880	2,520	-360	-12.5%	48	\$17.01	10
51-9071	Jewelers & Precious Stone & Metal Workers	120	100	-20	-16.7%	3	\$17.35 OH	7
51-9081	Dental Laboratory Technicians	180	190	10	5.6%	5	\$17.82 OH	10
51-9111	Packaging & Filling Machine Operators/Tenders	890	890	0	0.0%	15	\$13.78	11
51-9121	Coating/Painting/Spraying Machine Setters, O/T	1,220	1,090	-130	-10.7%	32	\$15.34 OH	10
51-9122	Painters, Transportation Equipment	140	130	-10	-7.1%	4	\$19.34 OH	10
51-9123	Painting, Coating, and Decorating Workers	220	230	10	4.5%	7	\$10.43	11
51-9132	Photographic Processing Machine Operators	190	120	-70	-36.8%	5	\$11.47	11
51-9192	Cleaning/Washing/Metal Pickling Equipment O/T	150	130	-20	-13.3%	3	\$13.65 OH	10
51-9196	Paper Goods Mach. Setters/Operators/Tenders	530	390	-140	-26.4%	11	\$15.74 OH	10
51-9198	Helpers--Production Workers	2,620	2,430	-190	-7.3%	46	\$12.29	11
51-9199	Production Workers, All Other	1,190	1,050	-140	-11.8%	28	\$16.54 OH	10
<b>53-0000</b>	<b>Transportation and Material Moving Occupations</b>	<b>46,870</b>	<b>47,230</b>	<b>360</b>	<b>0.8%</b>	<b>1,259</b>	<b>NA</b>	<b>NA</b>
53-1021	FL Sup/Mgrs of Help/Labor/Mat. Movers, Hand	1,020	1,030	10	1.0%	19	\$22.09 OH	8
53-3022	Bus Drivers, School	970	970	0	0.0%	17	\$13.19	10
53-3031	Driver/Sales Workers	1,990	2,000	10	0.5%	37	\$11.59	11
53-3032	Truck Drivers, Heavy and Tractor-Trailer	8,920	10,160	1,240	13.9%	284	\$19.36 OH	11
53-3033	Truck Drivers, Light or Delivery Services	4,450	4,440	-10	-0.2%	80	\$14.90 OH	11
53-3041	Taxi Drivers and Chauffeurs	460	480	20	4.3%	10	\$9.69	11
53-6021	Parking Lot Attendants	350	300	-50	-14.3%	12	\$9.27 OH	11
53-6031	Service Station Attendants	140	140	0	0.0%	6	\$10.18	11
53-7011	Conveyor Operators and Tenders	120	110	-10	-8.3%	3	\$16.68 OH	11

\*Occupations with 100 or more workers.

\*\*See last page.

+See last page for Education Training Levels.

++Annual earnings, typically 9 1/2 months for school teachers.

**Southwest Central Ohio - Economic Development Region 4  
Occupational Employment\* Projections Report, 2008-2018**

Code	Occupational Title**	Employment		Change in Employment		Total Annual Openings**	Average Wage Dec 2010**	Education Training Level+
		2008 Annual	2018 Projected	2008 - 2018	Percent			
53-7032	Excavating & Loading Machine & Dragline Oper.	230	240	10	4.3%	8	\$17.32	10
53-7051	Industrial Truck and Tractor Operators	3,100	3,000	-100	-3.2%	92	\$14.73	11
53-7061	Cleaners of Vehicles and Equipment	980	900	-80	-8.2%	35	\$11.60 OH	11
53-7062	Laborers/Freight/Stock/Material Movers, Hand	14,400	14,310	-90	-0.6%	463	\$11.96	11
53-7063	Machine Feeders and Offbearers	1,040	690	-350	-33.7%	12	\$11.45	11
53-7064	Packers and Packagers, Hand	4,410	4,190	-220	-5.0%	73	\$11.09 OH	11
53-7081	Refuse and Recyclable Material Collectors	630	610	-20	-3.2%	19	\$16.97	11

**+ Education/Training Levels**

- 1 First Professional Degree
- 2 Doctoral Degree
- 3 Master's Degree
- 4 Bachelor's or Higher Degree, plus Work Experience
- 5 Bachelor's Degree
- 6 Associate Degree
- 7 Postsecondary Vocational Award
- 8 Work Experience in a Related Occupation
- 9 Long-Term On-The-Job Training
- 10 Moderate-Term On-The-Job Training
- 11 Short-Term On-The-Job Training
- NA Not Available/Applicable

**\*\*Abbreviations**

- AO = All Other
- FL Sup/Mgrs = First-Line Supervisors/Managers
- M/P = Metal and Plastic
- PS = Postsecondary
- O/T = Operators and Tenders
- S/O/T = Setters, Operators and Tenders

**\*\* May 2009 wages statistically aged to December 2010.**

Statewide wage  
++Statewide annual wage

**\*\* How to Compute Replacement Openings**

For detailed occupations: Replacement Openings=Total Annual Openings-(Growth Openings/10)  
Replacement Openings=Total Annual Openings, when decline is projected  
For Total All Occupations: See the Total Annual Openings by Major Group table.  
For Group Categories: See the Total Annual Openings by Major Group table.

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, August 2011.

\*Occupations with 100 or more workers.

\*\*See last page.

+See last page for Education Training Levels.

++Annual earnings, typically 9 1/2 months for school teachers.

**Southwest Central Ohio - Economic Development Region 4**  
**Occupations with High Employment Prospects by Education/Training Level**  
(Occupations paying \$15.69 or more an hour and having at least 15 annual openings in the EDR)  
*(Ohio's median wage in December 2010\* was \$15.69, which means half of all occupations paid \$15.69 an hour or more.)*

Code	Occupational Title*	Employment		Change in Employment		Total Annual Openings	Average Wage Dec 2010+
		2008 Annual	2018 Projected	2008 - 2018	Percent		
<b>Occupations Requiring Short-Term On-the-Job Training (up to one month)</b>							
43-4031	Court, Municipal, and License Clerks	690	690	0	0.0%	20	\$16.17
43-4131	Loan Interviewers and Clerks	600	620	20	3.3%	17	\$17.02
43-5052	Postal Service Mail Carriers	1,490	1,300	-190	-12.8%	46	\$24.30
53-3032	Truck Drivers, Heavy and Tractor-Trailer	8,920	10,160	1,240	13.9%	284	\$19.36 OH
53-7081	Refuse and Recyclable Material Collectors	630	610	-20	-3.2%	19	\$16.97
<b>Occupations Requiring Moderate-Term On-the-Job Training (one to twelve months combined experience/training)</b>							
13-2072	Loan Officers	740	810	70	9.5%	15	\$26.41
31-9091	Dental Assistants	1,120	1,410	290	25.9%	50	\$17.90
43-3031	Bookkeeping, Accounting, and Auditing Clerks	6,730	6,920	190	2.8%	100	\$16.02
43-3051	Payroll and Timekeeping Clerks	650	540	-110	-16.9%	15	\$17.14
43-4051	Customer Service Representatives	8,110	8,980	870	10.7%	342	\$16.84
43-5032	Dispatchers, except Police, Fire and Ambulance	1,140	1,070	-70	-6.1%	24	\$18.36
43-5061	Production, Planning, and Expediting Clerks	1,330	1,220	-110	-8.3%	33	\$20.40
47-2061	Construction Laborers	2,730	3,070	340	12.5%	52	\$17.07
47-2073	Operating Engineers & Other Con. Equip. Op.	1,130	1,190	60	5.3%	25	\$22.69
47-4051	Highway Maintenance Workers	860	850	-10	-1.2%	23	\$19.20
49-9042	Maintenance and Repair Workers, General	5,490	5,530	40	0.7%	89	\$17.69
51-4011	Computer-Controlled Machine Tool Oper., M/P	2,870	2,520	-350	-12.2%	56	\$19.19
51-9023	Mixing/Blending Mach. Setter/Operator/Tenders	650	750	100	15.4%	21	\$18.40
51-9061	Inspectors/Testers/Sorters/Samplers/Weighers	2,880	2,520	-360	-12.5%	48	\$17.01
<b>Occupations Requiring Long-Term On-the-Job Training (twelve months or more combined experience/training)</b>							
13-1023	Purchasing Agents, ex. Whole., Retail, & Farm	1,960	2,050	90	4.6%	61	\$32.91
13-1031	Claims Adjusters, Examiners and Investigators	650	690	40	6.2%	20	\$28.59
13-1041	Compl. Off., ex. Agric, Con, Hlth/Safety, & Trans.	600	720	120	20.0%	18	\$24.21
27-2042	Musicians and Singers	900	930	30	3.3%	21	\$26.82 OH
33-2011	Fire Fighters	1,850	2,020	170	9.2%	74	\$20.20 OH
33-3051	Police and Sheriff's Patrol Officers	2,000	2,000	0	0.0%	52	\$26.65
47-2031	Carpenters	4,000	4,150	150	3.8%	65	\$19.60
47-2111	Electricians	1,720	1,760	40	2.3%	46	\$21.53
47-2152	Plumbers, Pipefitters and Steamfitters	1,200	1,240	40	3.3%	28	\$21.30
49-3021	Automotive Body and Related Repairers	620	570	-50	-8.1%	16	\$19.13 OH
49-9041	Industrial Machinery Mechanics	1,190	1,170	-20	-1.7%	17	\$23.82
<b>Occupations Requiring Work Experience in a Related Occupation</b>							
11-3051	Industrial Production Managers	1,160	950	-210	-18.1%	41	\$45.95
11-9051	Food Service Managers	1,050	1,090	40	3.8%	24	\$23.90
39-1021	First-Line Sup/Mgrs of Personal Serv. Workers	560	590	30	5.4%	18	\$18.88
41-1011	First-Line Superv./Mgrs of Retail Sales Workers	5,810	5,710	-100	-1.7%	125	\$18.17
41-1012	First-Line Sup./Mgrs of Non-Retail Sales Workers	1,670	1,630	-40	-2.4%	35	\$33.86
41-4011	Sales Rep., Wholesale & Mfg, Tech./Sci. Prod.	1,420	1,480	60	4.2%	39	\$34.16
41-4012	Sales Rep., Wholesale/Mfg, ex. Tech./Sci. Prod.	5,270	5,220	-50	-0.9%	122	\$26.43
43-1011	First-Line Sup/Mgrs of Office & Admin. Support	4,530	4,680	150	3.3%	117	\$23.82
43-6011	Executive Secretaries & Administrative Assistants	4,330	4,560	230	5.3%	81	\$19.35
47-1011	First-Line Sup/Mgrs of Con. Trades/Extract. Work	1,480	1,570	90	6.1%	38	\$29.57
49-1011	FL Sup/Mgrs of Mechanics/Installers/Repairers	1,630	1,560	-70	-4.3%	43	\$29.96
53-1021	FL Sup/Mgrs of Help/Labor/Mat. Movers, Hand	1,020	1,030	10	1.0%	19	\$22.09 OH

\*Occupations with 100 or more workers.

\*\*See last page.

+See last page for Education Training Levels.

**Southwest Central Ohio - Economic Development Region 4**  
**Occupations with High Employment Prospects by Education/Training Level**  
(Occupations paying \$15.69 or more an hour and having at least 15 annual openings in the EDR)  
*(Ohio's median wage in December 2010\* was \$15.69, which means half of all occupations paid \$15.69 an hour or more.)*

Code	Occupational Title*	Employment		Change in Employment		Total Annual Openings	Average Wage Dec 2010+
		2008 Annual	2018 Projected	2008 - 2018	Percent		
<b>Occupations Requiring Postsecondary Vocational Training</b>							
29-2055	Surgical Technologists	450	550	100	22.2%	21	\$19.99
29-2061	Licensed Practical & Licensed Vocat. Nurses	4,200	4,750	550	13.1%	186	\$19.95
41-3021	Insurance Sales Agents	2,680	3,110	430	16.0%	105	\$30.07
49-3023	Automotive Service Technicians and Mechanics	2,730	2,500	-230	-8.4%	52	\$17.77
49-3031	Bus & Truck Mechanics & Diesel Engine Spec.	1,120	1,160	40	3.6%	30	\$18.63
49-9021	Heating, AC, & Refrigeration Mechanics/Installers	970	1,160	190	19.6%	35	\$19.29
51-4121	Welders, Cutters, Solderers, and Brazers	1,910	1,620	-290	-15.2%	59	\$16.93
51-4122	Welding/Soldering/Brazing Machine Setters, O/T	1,240	900	-340	-27.4%	38	\$16.61 OH
<b>Occupations Requiring an Associate Degree</b>							
15-1041	Computer Support Specialists	2,710	3,070	360	13.3%	111	\$19.19
29-1111	Registered Nurses*	12,330	14,140	1,810	14.7%	397	\$28.77
29-1126	Respiratory Therapists	630	720	90	14.3%	21	\$24.72
29-2021	Dental Hygienists	820	1,040	220	26.8%	39	\$30.26
29-2034	Radiologic Technologists and Technicians	1,080	1,160	80	7.4%	24	\$24.29
<b>Occupations Requiring a Bachelor's Degree</b>							
11-9021	Construction Managers	1,330	1,450	120	9.0%	22	\$43.55
11-9151	Social and Community Service Managers	410	480	70	17.1%	17	\$28.58
13-1051	Cost Estimators	920	1,060	140	15.2%	35	\$30.11
13-1071	Employment, Recruitment & Placement Specialists	590	730	140	23.7%	29	\$24.64
13-1072	Comp., Benefits & Job Analysis Specialists	380	430	50	13.2%	15	\$25.41
13-1073	Training and Development Specialists	780	910	130	16.7%	33	\$26.71
13-1081	Logisticians	710	760	50	7.0%	21	\$40.22
13-2011	Accountants and Auditors	4,640	5,390	750	16.2%	153	\$31.76
13-2051	Financial Analysts	600	690	90	15.0%	20	\$31.80
15-1021	Computer Programmers	1,550	1,350	-200	-12.9%	29	\$33.67
15-1031	Computer Software Engineers, Applications	2,420	2,960	540	22.3%	74	\$39.34
15-1032	Comp. Software Engineers, Systems Software	1,840	2,150	310	16.8%	47	\$44.41
15-1051	Computer Systems Analysts	1,980	2,230	250	12.6%	68	\$38.13
15-1071	Network and Computer Systems Administrators	1,580	1,850	270	17.1%	53	\$28.93
15-1081	Network Systems & Data Comm. Analysts	1,240	1,790	550	44.4%	77	\$33.50
17-2051	Civil Engineers	840	940	100	11.9%	24	\$37.80
17-2072	Electronics Engineers, except Computer	1,010	960	-50	-5.0%	23	\$48.87
17-2112	Industrial Engineers	1,700	1,630	-70	-4.1%	43	\$36.43
17-2141	Mechanical Engineers	1,390	1,250	-140	-10.1%	36	\$34.86
19-3021	Market Research Analysts	1,210	1,510	300	24.8%	62	\$29.91
21-1021	Child, Family and School Social Workers	1,150	1,320	170	14.8%	46	\$19.71
21-1022	Medical and Public Health Social Workers	550	610	60	10.9%	20	\$21.66
25-2021	Elementary School Teachers, ex.Special Ed.	4,200	4,660	460	11.0%	142	\$51,807 ++
25-2022	Middle School Teachers, ex. Special & Voc. Ed.	2,200	2,430	230	10.5%	73	\$50,467 ++
25-2031	Secondary Sch. Teachers, ex. Spec. & Voc. Ed.	5,250	5,470	220	4.2%	175	\$53,161 ++
25-2042	Special Education Teachers, Middle School	750	850	100	13.3%	29	\$51,553 ++
25-2043	Special Education Teachers, Secondary School	890	960	70	7.9%	30	\$53,047 ++
27-1024	Graphic Designers	1,120	1,220	100	8.9%	45	\$20.44
27-3031	Public Relations Specialists	630	750	120	19.0%	27	\$24.97
27-3041	Editors	540	600	60	11.1%	20	\$24.66

\*Occupations with 100 or more workers.

\*\*See last page.

+See last page for Education Training Levels.

**Southwest Central Ohio - Economic Development Region 4**  
**Occupations with High Employment Prospects by Education/Training Level**

*(Occupations paying \$15.69 or more an hour and having at least 15 annual openings in the EDR)  
(Ohio's median wage in December 2010\* was \$15.69, which means half of all occupations paid \$15.69 an hour or more.)*

Code	Occupational Title*	Employment		Change in Employment		Total Annual Openings	Average Wage Dec 2010+
		2008 Annual	2018 Projected	2008 - 2018	Percent		
29-2011	Medical and Clinical Laboratory Technologists	600	650	50	8.3%	16	\$25.49 OH
41-3031	Securities/Commodities/Fin. Serv. Sales Agents	970	1,040	70	7.2%	37	\$27.00
<b>Occupations Requiring Work Experience plus a Bachelor's Degree</b>							
11-1021	General and Operations Managers	3,130	2,770	-360	-11.5%	91	\$55.13
11-2022	Sales Managers	1,180	1,230	50	4.2%	30	\$53.40
11-3011	Administrative Services Managers	840	880	40	4.8%	22	\$47.52
11-3021	Computer and Information Systems Managers	1,090	1,190	100	9.2%	28	\$60.99
11-3031	Financial Managers	1,420	1,410	-10	-0.7%	26	\$49.10
11-9111	Medical and Health Services Managers	1,140	1,230	90	7.9%	31	\$40.70
13-1111	Management Analysts	2,530	2,640	110	4.3%	55	\$38.56
25-2032	Vocational Education Teachers, Secondary Sch.	430	450	20	4.7%	15	\$62,308 ++
<b>Occupations Requiring a Master's Degree</b>							
21-1012	Educational, Vocational, & School Counselors	1,180	1,280	100	8.5%	34	\$28.39
21-1023	Mental Health & Substance Abuse Social Work.	340	420	80	23.5%	17	\$18.37
25-4021	Librarians	580	580	0	0.0%	15	\$25.35
25-9031	Instructional Coordinators	730	880	150	20.5%	31	\$33.54
29-1071	Physician Assistants	330	450	120	36.4%	18	\$43.18
29-1123	Physical Therapists	570	650	80	14.0%	15	\$36.68
<b>Occupations Requiring a First Professional Degree</b>							
23-1011	Lawyers	1,740	1,760	20	1.1%	34	\$54.29
29-1021	Dentists, General	430	460	30	7.0%	15	\$80.96
29-1051	Pharmacists	890	940	50	5.6%	25	\$52.84
29-1062	Family and General Practitioners	660	780	120	18.2%	24	\$69.83

**\*Abbreviations**

Statewide wage

FL Sup/Mgrs = First-Line Supervisors/Managers

M/P = Metal and Plastic

O/T = Operators and Tenders

S/O/T = Setters, Operators and Tenders

\*Registered Nurses' training is met through a two-year associate degree; a three-year diploma; or a four-year bachelor's degree.

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, August 2011

\*Occupations with 100 or more workers.

\*\*See last page.

+See last page for Education Training Levels.

++Annual earnings, typically 9 1/2 months for school teachers.



# Dictionary of Occupations

## Standard Occupational Classification (SOC)

<b>A</b>			
Abstractors, Title Examiners, and Searchers	23-2093	Bailiffs	33-3011
AC, Heating, & Refrigeration Mechanics/Installers	49-9021	Bakers	51-3011
Account and Bill Collectors	43-3011	Bar Helpers & Dining Room & Cafeteria Attend.	35-9011
Accountants and Auditors	13-2011	Barbers	39-5011
Accounting, Bookkeeping, and Auditing Clerks	43-3031	Bartenders	35-3011
Actuaries	15-2011	Behavioral Dis. & Substance Abuse Counselors	21-1011
Adjudicators, Admin. Law Judges, & Hearing Off.	23-1021	Bellhops and Baggage Porters	39-6011
Admin. Assistants & Executive Secretaries	43-6011	Bench Carpenters and Cabinetmakers	51-7011
Admin. Law Judges, Adjudicators, & Hearing Off.	23-1021	Benefits and Compensation Managers	11-3041
Administrative Services Managers	11-3011	Benefits, Comp., & Job Analysis Specialists	13-1072
Adult Literacy, Remedial Ed., & GED Teachers	25-3011	Bill and Account Collectors	43-3011
Advertising and Promotions Managers	11-2011	Billing & Posting Clerks & Machine Operators	43-3021
Advertising Sales Agents	41-3011	Bindery Workers	51-5011
Aerobics Instructors and Fitness Trainers	39-9031	Biochemists and Biophysicists	19-1021
Aerospace Engineering & Operations Tech.	17-3021	Biological Scientists, All Other	19-1029
Aerospace Engineers	17-2011	Biological Technicians	19-4021
Agents/Business Mgrs. Artist/Performer/Athlete	13-1011	Biomedical Engineers	17-2031
Agricultural and Food Science Technicians	19-4011	Blockmasons and Brickmasons	47-2021
Agricultural Equipment Operators	45-2091	Boilermakers	47-2011
Agricultural Inspectors	45-2011	Bookbinders	51-5012
Agricultural Workers, All Other	45-2099	Bookkeeping, Accounting, and Auditing Clerks	43-3031
Air Traffic Controllers	53-2021	Boring & Drilling Machine Tool Setters, O/T, M/P	51-4032
Aircraft Cargo Handling Supervisors	53-1011	Brazers, Welders, Cutters, and Solderers	51-4121
Aircraft Mechanics and Service Technicians	49-3011	Brick/Block/Stone/Tile & Marble Setters--Helpers	47-3011
Aircraft Structure/Surfaces/Rigging/Sys. Assem.	51-2011	Brickmasons and Blockmasons	47-2021
Ambulance Drivers & Attendants, Except EMT	53-3011	Broadcast Technicians	27-4012
Ambulance, Police, and Fire Dispatchers	43-5031	Brokerage Clerks	43-4011
Amusement and Recreation Attendants	39-3091	Budget Analysts	13-2031
Amusement/Coin/Vending Machine Serv/Repair	49-9091	Building and Construction Inspectors	47-4011
Anesthesiologists	29-1061	Building Cleaning Workers, All Other	37-2019
Animal Breeders	45-2021	Bus & Truck Mechanics & Diesel Engine Spec.	49-3031
Animal Control Workers	33-9011	Bus Drivers, School	53-3022
Animal Scientists	19-1011	Bus Drivers, Transit and Intercity	53-3021
Animal Trainers	39-2011	Business Mgrs./Agents Artist/Performer/Athlete	13-1011
Animators and Multi-Media Artists	27-1014	Business Operations Specialists, All Other	13-1199
Answering Service and Switchboard Operators	43-2011	Butchers and Meat Cutters	51-3021
Appraisers and Assessors of Real Estate	13-2021	Buyers and Purchasing Agents, Farm Products	13-1021
Arbitrators, Mediators, and Conciliators	23-1022		
Architects, Except Landscape and Naval	17-1011	<b>C</b>	
Architectural and Civil Drafters	17-3011	Cabinetmakers and Bench Carpenters	51-7011
Archivists	25-4011	Camera & Photographic Equipment Repairers	49-9061
Art Directors	27-1011	Camera Operators, TV, Video, & Motion Picture	27-4031
Artists and Related Workers, All Other	27-1019	Captains, Mates, and Pilots of Water Vessels	53-5021
Artists, Inc. Painters, Sculptors, & Illustrators	27-1013	Cardiovascular Technologists and Technicians	29-2031
Assemblers and Fabricators, All Other	51-2099	Cargo and Freight Agents	43-5011
Assessors and Appraisers of Real Estate	13-2021	Carpenters	47-2031
Athletes and Sports Competitors	27-2021	Carpenter's Helpers	47-3012
Athletic Trainers	29-9091	Carpenters, Bench and Cabinetmakers	51-7011
ATM, Computer, & Office Machine Repairers	49-2011	Carpet Installers	47-2041
Atmospheric and Space Scientists	19-2021	Cartographers and Photogrammetrists	17-1021
Audio and Video Equipment Technicians	27-4011	Cashiers	41-2011
Audiologists	29-1121	Casters and Pourers, Metal	51-4052
Audio-Visual Collections Specialists	25-9011	Ceiling Tile and Drywall Installers	47-2081
Auditing, Bookkeeping, and Accounting Clerks	43-3031	Cement Masons and Concrete Finishers	47-2051
Auditors and Accountants	13-2011	Cementing/Gluing Machine Operators/Tenders	51-9191
Authors and Writers	27-3043	Channeling and Mine Cutting Machine Operators	47-5042
Automotive Body and Related Repairers	49-3021	Chauffeurs and Taxi Drivers	53-3041
Automotive Glass Installers and Repairers	49-3022	Chefs and Head Cooks	35-1011
Automotive Service Technicians and Mechanics	49-3023	Chemical Engineers	17-2041
Avionics Technicians	49-2091	Chemical Equipment Operators and Tenders	51-9011
		Chemical Plant and System Operators	51-8091
		Chemical Technicians	19-4031
		Chemists	19-2031
		Chief Executives	11-1011
<b>B</b>			
Baggage Porters and Bellhops	39-6011		



# Dictionary of Occupations

## Standard Occupational Classification (SOC)

Child Care Workers	39-9011	Cooks, Institution and Cafeteria	35-2012
Child, Family, and School Social Workers	21-1021	Cooks, Restaurant	35-2014
Child, Family, and School Social Workers	21-1021	Cooks, Short Order	35-2015
Chiropractors	29-1011	Cooling/Freezing Equipment Operators/Tenders	51-9193
Civil and Architectural Drafters	17-3011	Copy Markers and Proofreaders	43-9081
Civil Engineering Technicians	17-3022	Correct. Treatment & Probation Officers Spec.	21-1092
Civil Engineers	17-2051	Correctional Officers and Jailers	33-3012
Claims Adjusters, Examiners, and Investigators	13-1031	Correctional Officers, First-Line Superv./Mgrs	33-1011
Cleaners of Vehicles and Equipment	53-7061	Correspondence Clerks	43-4021
Cleaning/Washing/Metal Pickling Equipment O/T	51-9192	Cosmetologists, Hairdressers, and Hairstylists	39-5012
Clergy	21-2011	Cost Estimators	13-1051
Clinical Laboratory and Medical Technicians	29-2012	Counseling, Clinical, and School Psychologists	19-3031
Clinical Laboratory and Medical Technologists	29-2011	Counselors, All Other	21-1019
Clinical, Counseling, and School Psychologists	19-3031	Counter and Rental Clerks	41-2021
Coaches and Scouts	27-2022	Counter Attend., Café/Food Concess/Coffee Sh.	35-3022
Coating, Painting, and Decorating Workers	51-9123	Couriers and Messengers	43-5021
Coating/Painting/Spraying Machine Setters, O/T	51-9121	Court Reporters	23-2091
Coating/Painting/Spraying Machine Setters, O/T	51-9121	Court, Municipal, and License Clerks	43-4031
Coatroom/Locker Room/Dressing Rm Attendants	39-3093	Crane and Tower Operators	53-7021
Coil Winders, Tapers, and Finishers	51-2021	Credit Analysts	13-2041
Coin/Vending/Amusement Machine Serv/Repair	49-9091	Credit Authorizers, Checkers, and Clerks	43-4041
Collectors, Tax Examiners, & Revenue Agents	13-2081	Criminal Investigators and Detectives	33-3021
Comb. Food Prep. & Serv. Work, Inc. Fast Food	35-3021	Crossing Guards	33-9091
Commercial and Industrial Designers	27-1021	Crushing/Grinding/Polishing Machine S/O/T	51-9021
Commercial/Indus Equip. Elect./Electron. Repair	49-2094	Curators	25-4012
Commodities/Securities/Fin. Serv. Sales Agents	41-3031	Customer Service Representatives	43-4051
Communications Equipment Operators, All Other	43-2099	Cutters and Trimmers, Hand	51-9031
Community & Social Service Specialists, AO	21-1099	Cutters, Welders, Solderers, and Brazers	51-4121
Community Assn, Property, & Real Estate Mgrs	11-9141	Cutting/Punching/Press Machine S/O/T, M/P	51-4031
Comp. Software Engineers, Systems Software	15-1032	Cutting/Slicing Mach. Setters/Operators/Tenders	51-9032
Comp., Benefits, & Job Analysis Specialists	13-1072		
Compensation and Benefits Managers	11-3041	<b>D</b>	
Compl. Off., Ex. Agric, Con, Hlth/Safety, & Trans.	13-1041	Dancers	27-2031
Composers and Music Directors	27-2041	Data Comm. & Network Systems Analysts	15-1081
Computer and Information Scientists, Research	15-1011	Data Entry Keyers	43-9021
Computer and Information Systems Managers	11-3021	Database Administrators	15-1061
Computer Hardware Engineers	17-2061	Decorating, Painting, and Coating Workers	51-9123
Computer Operators	43-9011	Dental Assistants	31-9091
Computer Programmers	15-1021	Dental Hygienists	29-2021
Computer Software Engineers, Applications	15-1031	Dental Laboratory Technicians	51-9081
Computer Specialists, All Other	15-1099	Dentists, General	29-1021
Computer Support Specialists	15-1041	Designers, All Other	27-1029
Computer Systems Analysts	15-1051	Desktop Publishers	43-9031
Computer Systems and Network Administrators	15-1071	Detectives and Criminal Investigators	33-3021
Computer, ATM, & Office Machine Repairers	49-2011	Detectives and Investigators, Private	33-9021
Computer-Controlled Machine Tool Oper., M/P	51-4011	Diagnostic Medical Sonographers	29-2032
Con. Trades/Extract. Work First-Line Sup/Mgrs	47-1011	Dialysis Technician	29--9099
Concierges	39-6012	Dietetic Technicians	29-2051
Conciliators, Arbitrators, and Mediators	23-1022	Dietitians and Nutritionists	29-1031
Concrete Finishers and Cement Masons	47-2051	Dining Room & Cafeteria Attend. & Bar Helpers	35-9011
Conservation and Forest Technicians	19-4093	Dinkey Operators/Rail Yard Engineers/Hostlers	53-4013
Conservation and Forest Workers	45-4011	Directors and Producers	27-2012
Conservation Scientists	19-1031	Directors, Religious Activities and Education	21-2021
Conservators and Museum Technicians	25-4013	Dishwashers	35-9021
Construction and Building Inspectors	47-4011	Dispatchers, Except Police, Fire, & Ambulance	43-5032
Construction and Related Workers, All Other	47-4099	Dispatchers, Police, Fire, and Ambulance	43-5031
Construction Laborers	47-2061	Distribution, Transportation & Storage Managers	11-3071
Construction Managers	11-9021	Dog Groomer	39-2021
Continuous Mining Machine Operators	47-5041	Door-To-Door Sales, News/St. Vendors, & Rel.	41-9091
Control & Valve Install/Repair, Ex. Mech. Door	49-9012	Drafters, All Other	17-3019
Convention and Meeting Planners	13-1121	Dragline & Excavating & Loading Machine Oper.	53-7032
Conveyor Operators and Tenders	53-7011	Dredge Operators	53-7031
Cooks, All Other	35-2019	Dressing Rm/Locker Room/Coatroom Attendants	39-3093
Cooks, Fast Food	35-2011	Dressmakers, Tailors, and Custom Sewers	51-6052

# Dictionary of Occupations

## Standard Occupational Classification (SOC)

Drilling & Boring Machine Tool Setters, O/T, M/P	51-4032	Farmers and Ranchers	11-9012
Driver/Sales Workers	53-3031	Farming/Fishing/Forestry Wrks., FL Sup/Mgrs	45-1011
Dry-Cleaning and Laundry Workers	51-6011	Farmworkers, Farm and Ranch Animals	45-2093
Drywall and Ceiling Tile Installers	47-2081	Farmworkers/Laborers, Crop/Nursery/Greenhse	45-2092
<b>E</b>		Fashion Designers	27-1022
Earth Drillers, Except Oil and Gas	47-5021	Fast Food, Food Prep. & Service Work Comb.	35-3021
Economists	19-3011	Fence Erectors	47-4031
Editors	27-3041	Fiberglass Laminators and Fabricators	51-2091
Education Admin., Elem. & Secondary School	11-9032	File Clerks	43-4071
Education Admin., Pre & Child Care Center/Prog.	11-9031	Filling & Packaging Machine Operators/Tenders	51-9111
Education Administrators, Postsecondary	11-9033	Film and Video Editors	27-4032
Education, and Religious Activities Directors	21-2021	Financial Analysts	13-2051
Education, Training, & Library Workers, AO	25-9099	Financial Examiners	13-2061
Educational, Vocational, & School Counselors	21-1012	Financial Managers	11-3031
Electric Motor, Power Tool, & Related Repairers	49-2092	Financial Specialists, All Other	13-2099
Electrical & Electronic Engineering Technicians	17-3023	Finishers, Coil Winders, and Tapers	51-2021
Electrical & Electronic Equipment Assemblers	51-2022	Fire Alarm Systems and Security Installers	49-2098
Electrical and Electronics Drafters	17-3012	Fire Fighters	33-2011
Electrical Engineers	17-2071	Fire Fighting & Prev. Workers, FL Sup/Mgrs	33-1021
Electrical Power-Line Installers and Repairers	49-9051	Fire Inspectors and Investigators	33-2021
Electrical/Electronics Install/Repair, Trans. Equip.	49-2093	Fire, Police and Ambulance Dispatchers	43-5031
Electrical/Electronics Repair, Comm/Indus Equip.	49-2094	First-Line Sup./Mgrs of Non-Retail Sales Workers	41-1012
Electrical/Electronics Repair, Pwrhse/Substa/Rly	49-2095	First-Line Sup/Mgrs of Con. Trades/Extract. Work	47-1011
Electricians	47-2111	First-Line Sup/Mgrs of Office & Admin. Support	43-1011
Electrician's Helpers	47-3013	First-Line Sup/Mgrs of Personal Serv. Workers	39-1021
Electromechanical Equipment Assemblers	51-2023	First-Line Sup/Mgrs, Protective Serv. Work., AO	33-1099
Electro-Mechanical Technicians	17-3024	First-Line Superv./Mgrs of Correctional Officers	33-1011
Electronic Equipment Install/Repair, Motor Veh.	49-2096	First-Line Superv./Mgrs of Police & Detectives	33-1012
Electronic Home Entertainm Equip. Install/Repair	49-2097	First-Line Superv./Mgrs of Retail Sales Workers	41-1011
Electronics Engineers, Except Computer	17-2072	Fish and Game Wardens	33-3031
Elementary School Teachers, Ex.Special Ed.	25-2021	Fish, Meat, and Poultry Cutters and Trimmers	51-3022
Elevator Installers and Repairers	47-4021	Fitness Trainers and Aerobics Instructors	39-9031
Eligibility Interviewers, Government Programs	43-4061	FL Sup/Mgr of Trans/Mat.-Mov. Mach & Veh Op	53-1031
Embalmers	39-4011	FL Sup/Mgrs of Farming/Fishing/Forestry Wrks.	45-1011
Emergency Management Specialists	13-1061	FL Sup/Mgrs of Fire Fighting & Prev. Workers	33-1021
Emergency Medical Technicians & Paramedics	29-2041	FL Sup/Mgrs of Food Prep. & Serving Workers	35-1012
Empl., Recruitment, & Placement Specialists	13-1071	FL Sup/Mgrs of Help/Labor/Mat. Movers, Hand	53-1021
Engine and Other Machine Assemblers	51-2031	FL Sup/Mgrs of Housekping & Janitorial Workers	37-1011
Engineering Managers	11-9041	FL Sup/Mgrs of Lndscap./Lawn Ser/Groundskp	37-1012
Engineers, All Other	17-2199	FL Sup/Mgrs of Mechanics/Installers/Repairers	49-1011
Engravers and Etchers	51-9194	FL Sup/Mgrs of Production/Operating Workers	51-1011
Entertain. & Perform., Sports & Rel. Work., AO	27-2099	Floor Layers, Ex. Carpet, Wood, & Hard Tiles	47-2042
Environ. Science & Protection Tech., Inc. Health	19-4091	Floral Designers	27-1023
Environmental Engineering Technicians	17-3025	Food Batchmakers	51-3092
Environmental Engineers	17-2081	Food Cooking Machine Operators and Tenders	51-3093
Environmental Scientists/Specialists, Inc. Health	19-2041	Food Prep. & Serv. Work Comb., Inc. Fast Food	35-3021
Ergonomist	29-9011	Food Prep. & Serving Related Workers, AO	35-9099
Etchers and Engravers	51-9194	Food Prep. & Serving Workers, FL Sup/Mgrs	35-1012
Excavating & Loading Machine & Dragline Oper.	53-7032	Food Preparation Workers	35-2021
Executive Secretaries & Admin. Assistants	43-6011	Food Science and Agricultural Technicians	19-4011
Exhibit and Set Designers	27-1027	Food Scientists and Technologists	19-1012
Expediting, Production, and Planning Clerks	43-5061	Food Servers, Nonrestaurant	35-3041
Extraction Workers' Helpers	47-5081	Food Service Managers	11-9051
Extraction Workers, All Other	47-5099	Food/Tobacco Roast/Baking/ Drying Mach. O/T	51-3091
Extrud/Form Mach. S/O/T, Synthetic/Glass Fibers	51-6091	Forest and Conservation Technicians	19-4093
Extrud/Form/Pressing/Compacting Mach. S/O/T	51-9041	Forest and Conservation Workers	45-4011
Extruding & Drawing Machine Setters, O/T, M/P	51-4021	Foresters	19-1032
<b>F</b>		Forging Mach. Setters/Operators/Tenders, M/P	51-4022
Family and General Practitioners	29-1062	Forklift Operators	53-7051
Family and Marriage Therapists	21-1013	Form/Extrud Mach. S/O/T, Synthetic/Glass Fibers	51-6091
Farm Equipment Mechanics	49-3041	Foundry Mold and Coremakers	51-4071
Farm, Ranch, and Other Agricultural Managers	11-9011	Freezing/Cooling Equipment Operators/Tenders	51-9193
		Freight and Cargo Agents	43-5011
		Funeral Attendants	39-4021

# Dictionary of Occupations

## Standard Occupational Classification (SOC)

Funeral Directors	11-9061	House Parent	39-9041
Furnace Operators and Tenders, Metal-Refining	51-4051	Housekeeping Cleaners and Maids	37-2012
Furnace/Kiln/Oven/Drier/Kettle Oper./Tenders	51-9051	Housekeeping & Janitorial Workers, FL Sup/Mgrs	37-1011
Furniture Finishers	51-7021	Human and Social Service Assistants	21-1093
<b>G</b>		Human Resource/Training/Labor Rel. Spec., AO	13-1079
Game and Fish Wardens	33-3031	Human Resources Assis., Ex. Payroll & Timekp	43-4161
Garage Door Repairers	49-9011	Human Resources Managers, All Other	11-3049
Gas and Oil Rotary Drill Operators	47-5012	<b>I</b>	
Gas Compressor & Gas Pumping Station Oper.	53-7071	Illustrators/Painters/Sculptors & Other Fine Artists	27-1013
Gas Plant Operators	51-8092	Industrial and Commercial Designers	27-1021
Gas Station Attendants	53-6021	Industrial Engineering Technicians	17-3026
Gas, Oil, and Mining Service Unit Operators	47-5013	Industrial Engineers	17-2112
GED, Adult Literacy, & Remedial Ed. Teachers	25-3011	Industrial Machinery Mechanics	49-9041
General and Family Practitioners	29-1062	Industrial Production Managers	11-3051
General and Operations Managers	11-1021	Industrial Truck and Tractor Operators	53-7051
Geological and Petroleum Technicians	19-4041	Industrial-Organizational Psychologists	19-3032
Geoscientists, Ex. Hydrologists & Geographers	19-2042	Information and Record Clerks, All Other	43-4199
Glass Installers and Repairers, Automotive	49-3022	Information Clerks and Receptionists	43-4171
Glaziers	47-2121	Information Systems and Computer Managers	11-3021
Gluing/Cementing Machine Operators/Tenders	51-9191	Information Technology Scientists, Research	15-1011
Golf Pro and Tennis Pro	27-2022	Inspectors/Testers/Sorters/Samplers/Weighers	51-9061
Graders and Sorters, Agricultural Products	45-2041	Installation/Maintenance/Repair Workers, AO	49-9099
Graphic Designers	27-1024	Installation/Maintenance/Repair Workers--Helpers	49-9098
Grind/Lapping/Polish/Buff Mach.Tool S/O/T, M/P	51-4033	Installers/Mechanics/Repairers, FL Sup/Mgrs	49-1011
Grinding and Polishing Workers, Hand	51-9022	Instructional Coordinators	25-9031
Grinding/Crushing/Polishing Machine S/O/T	51-9021	Insulation Workers, Floor, Ceiling and Wall	47-2131
Grounds Maintenance Workers, All Other	37-3019	Insulation Workers, Mechanical	47-2132
Groundskeeping and Landscaping Workers	37-3011	Insurance Appraisers, Auto Damage	13-1032
Groundskp,Lndscap./Lawn Ser, FL Sup/Mgrs	37-1012	Insurance Claims and Policy Processing Clerks	43-9041
Gynecologists and Obstetricians	29-1064	Insurance Sales Agents	41-3021
<b>H</b>		Insurance Underwriters	13-2053
Hairdressers, Hairstylists, and Cosmetologists	39-5012	Interior Designers	27-1025
Hazardous Materials Removal Workers	47-4041	Internists, General	29-1063
Health Diagnosing & Treating Practitioners, AO	29-1199	Interpreters and Translators	27-3091
Health Educators	21-1091	Interviewers, Except Eligibility and Loan	43-4111
Health Info. And Medical Records Technicians	29-2071	<b>J</b>	
Health Services and Medical Managers	11-9111	Jailers and Correctional Officers	33-3012
Health Technologists & Technicians, All Other	29-2099	Janitorial & Housekeeping Workers, FL Sup/Mgrs	37-1011
Healthcare Practitioners & Technical Workers, AO	29-9099	Janitors & Cleaners, Ex. Maids/Hsekeeping Clean.	37-2011
Healthcare Support Workers, All Other	31-9099	Jewelers & Precious Stone & Metal Workers	51-9071
Hearing Off., Admin. Law Judges, & Adjudicators	23-1021	Job Analysis, Comp., & Benefits Specialists	13-1072
Heat Treating Equip. Setters, O/T, M/P	51-4191	Job Printers	51-5021
Heath & Safety Engineers, Ex. Mining Safety	17-2111	Judges, Magistrate Judges, and Magistrates	23-1023
Heating, AC, & Refrigeration Mechanics/Installers	49-9021	<b>K</b>	
Help/Labor/Mat. Movers, Hand, FL Sup/Mgrs	53-1021	Kiln/Furnace/Oven/Drier/Kettle Oper./Tenders	51-9051
Helpers, Construction Trades, All Other	47-3019	Kindergarten Teachers, Ex. Special Education	25-2012
Helpers--Brick/Block/Stone/Tile & Marble Setters	47-3011	<b>L</b>	
Helpers--Carpenters	47-3012	Laborers, Construction	47-2061
Helpers--Electricians	47-3013	Laborers/Freight/Stock/Material Movers, Hand	53-7062
Helpers--Extraction Workers	47-5081	Landscap./Lawn Ser/Groundskp, FL Sup/Mgr	37-1012
Helpers--Installation/Maintenance/Repair Workers	49-9098	Landscape Architects	17-1012
Helpers--Painters/Paper/Plasterers/Stucco Mas.	47-3014	Landscaping and Groundskeeping Workers	37-3011
Helpers--Pipelayers/Plumbers/Pipefitters/Steamf	47-3015	Lathe & Turning Machine Tool Setters, O/T, M/P	51-4034
Helpers--Production Workers	51-9198	Laundry and Dry-Cleaning Workers	51-6011
Helpers--Roofers	47-3016	Law Clerks	23-2092
Highway Maintenance Workers	47-4051	Lawn Ser/Lndscap./Groundskp, FL Sup/Mgrs	37-1012
Home Appliance Repairers	49-9031	Lawyers	23-1011
Home Health Aides	31-1011	Lay-Out Workers, Metal and Plastic	51-4192
Horse Groomer	45-2093	Legal Assistants and Paralegals	23-2011
Hostlers/Rail Yard Engineers/Dinkey Operators	53-4013		
Hosts & Hostesses, Rest./Lounge/Coffee Shop	35-9031		
Hotel, Motel, and Resort Desk Clerks	43-4081		

# Dictionary of Occupations

## Standard Occupational Classification (SOC)

Legal Secretaries	43-6012	Medical and Health Services Managers	11-9111
Legal Support Workers, All Other	23-2099	Medical and Public Health Social Workers	21-1022
Librarians	25-4021	Medical Appliance Technicians	51-9082
Library Assistants, Clerical	43-4121	Medical Assistants	31-9092
Library Technicians	25-4031	Medical Equipment Preparers	31-9093
License, Court, and Municipal Clerks	43-4031	Medical Equipment Repairers	49-9062
Licensed Practical & Licensed Vocat. Nurses	29-2061	Medical Records & Health Info. Technicians	29-2071
Life Scientists, All Other	19-1099	Medical Scientists, Except Epidemiologists	19-1042
Life, Physical, & Social Science Tech., All Other	19-4099	Medical Secretaries	43-6013
Lifeguards/Ski Patrol/Rec. Prot. Serv. Wrks	33-9092	Medical Transcriptionists	31-9094
Loading Machine & Excavating & Dragline Oper.	53-7032	Meeting and Convention Planners	13-1121
Loan Counselors	13-2071	Mental Health & Substance Abuse Social Work.	21-1023
Loan Interviewers and Clerks	43-4131	Mental Health Counselors	21-1014
Loan Officers	13-2072	Merchandise Displayers and Window Trimmers	27-1026
Locker Room/Coatroom/Dressing Rm Attendants	39-3093	Messengers and Couriers	43-5021
Locksmiths and Safe Repairers	49-9094	Metal Workers and Plastic Workers, All Other	51-4199
Locomotive Engineers	53-4011	Metal-Refining Furnace Operators and Tenders	51-4051
Lodging Managers	11-9081	Meter Readers, Utilities	43-5041
Log Graders and Scalars	45-4023	Microbiologists	19-1022
Logging Equipment Operators	45-4022	Middle School Teachers, Ex. Special & Voc. Ed.	25-2022
Logisticians	13-1081	Milling & Planing Machine Setters, O/T, M/P	51-4035
<b>M</b>			
Machine Feeders and Offbearers	53-7063	Millwrights	49-9044
Machinists	51-4041	Mine Cutting & Channeling Machine Operators	47-5042
Magistrates, Judges, and Magistrate Judges	23-1023	Mining Machine Operators, Continuous	47-5041
Maids and Housekeeping Cleaners	37-2012	Mixing/Blending Mach. Setter/Operator/Tenders	51-9023
Mail Carriers, Postal Service	43-5052	Mobile Heavy Equip. Mechanics, Ex. Engines	49-3042
Mail Clerks & Mail Machine Op., Ex. Postal Serv.	43-9051	Mobile Home & Manufactured Building Installers	49-9095
Mail Sorters Postal Service/Proc/Proc Mach. Op.	43-5053	Model Makers, Metal and Plastic	51-4061
Mail Superintendents and Postmasters	11-9131	Molders/Shapers/Casters, Ex. Metal & Plastic	51-9195
Maintenance and Repair Workers, General	49-9042	Molding/Coremaking/Casting Mach. S/O/T, M/P	51-4072
Maintenance Workers, Machinery	49-9043	Motel, Hotel, and Resort Desk Clerks	43-4081
Management Analysts	13-1111	Motion Picture Projectionists	39-3021
Managers, All Other	11-9199	Motor Veh. Electronic Equipment Install/Repair	49-2096
Manicurists and Pedicurists	39-5092	Motor Vehicle Operators, All Other	53-3099
Manufactured Building & Mobile Home Installers	49-9095	Motorboat Mechanics	49-3051
Mapping and Surveying Technicians	17-3031	Motorcycle Mechanics	49-3052
Marble and Tile Setters	47-2044	Multi-Media Artists and Animators	27-1014
Marble Setters & Brick/Block/Stone/Tile--Helpers	47-3011	Multiple Machine Tool Setters, O/T, M/P	51-4081
Marine Oilers and Sailors	53-5011	Municipal, Court, and License Clerks	43-4031
Market Research Analysts	19-3021	Museum Technicians and Conservators	25-4013
Marketing Managers	11-2021	Music Directors and Composers	27-2041
Marriage and Family Therapists	21-1013	Musical Instrument Repairers and Tuners	49-9063
Massage Therapists	31-9011	Musicians and Singers	27-2042
Material Moving Workers, All Other	53-7199	<b>N</b>	
Materials Engineers	17-2131	Natural Sciences Managers	11-9121
Materials Scientists	19-2032	Network and Computer Systems Administrators	15-1071
Meat Cutters and Butchers	51-3021	Network Systems & Data Comm. Analysts	15-1081
Meat Packers and Slaughterers	51-3023	New Accounts Clerks	43-4141
Meat, Poultry, and Fish Cutters and Trimmers	51-3022	Nonfarm Animal Caretakers	39-2021
Mechanical Door Repairers	49-9011	Nuclear Engineers	17-2161
Mechanical Drafters	17-3013	Nuclear Medicine Technologists	29-2033
Mechanical Engineering Technicians	17-3027	Nuclear Power Reactor Operators	51-8011
Mechanical Engineers	17-2141	Nuclear Technicians	19-4051
Mechanics and Automotive Service Technicians	49-3023	Numerical Tool & Process Control Programmers	51-4012
Mechanics and Service Technicians, Aircraft	49-3011	Nursing Aides, Orderlies, and Attendants	31-1012
Mechanics, Bus & Truck & Diesel Engine Spec.	49-3031	Nutritionists and Dietitians	29-1031
Mechanics/Installers/Repairers, FL Sup/Mgrs	49-1011	<b>O</b>	
Media & Communication Equip. Workers, AO	27-4099	Obstetricians and Gynecologists	29-1064
Media and Communication Workers, All Other	27-3099	Occupational Health & Safety Specialists	29-9011
Mediators, Arbitrators, and Conciliators	23-1022	Occupational Health & Safety Technicians	29-9012
Medical and Clinical Laboratory Technicians	29-2012	Occupational Therapist Aides	31-2012
Medical and Clinical Laboratory Technologists	29-2011	Occupational Therapist Assistants	31-2011



# Dictionary of Occupations

## Standard Occupational Classification (SOC)

Occupational Therapists	29-1122	Physical Therapist Assistants	31-2021
Office & Admin. Support, First-Line Sup/Mgrs	43-1011	Physical Therapists	29-1123
Office and Administrative Support Workers, AO	43-9199	Physician Assistants	29-1071
Office Clerks, General	43-9061	Physicians and Surgeons, All Other	29-1069
Office Machine Operators, Except Computer	43-9071	Physicists	19-2012
Office Machine, Computer, & ATM Repairers	49-2011	Pipefitters, Plumbers, and Steamfitters	47-2152
Oil and Gas Rotary Drill Operators	47-5012	Pipelayers	47-2151
Oil and Gas Roustabouts	47-5071	Pipelayers/Plumbers/Pipefitters/Steamf--Helpers	47-3015
Oil, Gas, and Mining Service Unit Operators	47-5013	Placement, Empl., & Recruitment Specialists	13-1071
Operating Engineers & Other Con. Equip. Op.	47-2073	Plant and Soil Scientists	19-1013
Operations and General Managers	11-1021	Plant and System Operators, All Other	51-8099
Operations Research Analysts	15-2031	Plasterers and Stucco Masons	47-2161
Ophthalmic Laboratory Technicians	51-9083	Plating & Coating Machine Setters, O/T, M/P	51-4193
Opticians, Dispensing	29-2081	Plumbers, Pipefitters, and Steamfitters	47-2152
Optometrists	29-1041	Podiatrists	29-1081
Order Clerks	43-4151	Police & Detectives, First-Line Superv./Mgrs	33-1012
Order Fillers and Stock Clerks	43-5081	Police and Sheriff's Patrol Officers	33-3051
Orderlies, Nursing Aides, and Attendants	31-1012	Police, Fire, and Ambulance Dispatchers	43-5031
Organizational-Industrial Psychologists	19-3032	Polish/Grind/Lapping/Buf Mach.Tool S/O/T, M/P	51-4033
Orthotists and Prosthetists	29-2091	Polishing/Crushing/Grinding Machine S/O/T	51-9021
Outdoor Power Equip. & Other Sm Engine Mech.	49-3053	Postal Service Clerks	43-5051
		Postal Service Mail Carriers	43-5052
		Postal Service Mail Sorters/Proc/Proc Mach. Op.	43-5053
		Postmasters and Mail Superintendents	11-9131
		Postsecondary Teachers	25-1000
		Poultry, Meat, and Fish Cutters and Trimmers	51-3022
		Pourers and Casters, Metal	51-4052
		Power Plant Operators	51-8013
		Power Tool, Electric Motor & Related Repairers	49-2092
		Precision Instrument/Equipment Repairers, AO	49-9069
		Prepress Technicians and Workers	51-5022
		Preschool Teachers, Except Special Education	25-2011
		Press/Cutting/Punching Machine S/O/T, M/P	51-4031
		Pressers, Textile, Garment, & Related Materials	51-6021
		Principal, School	11-9032
		Printing Machine Operators	51-5023
		Private Detectives and Investigators	33-9021
		Pro, Golf and Tennis	27-2022
		Probation Officers & Correct. Treatment Spec.	21-1092
		Procurement Clerks	43-3061
		Producers and Directors	27-2012
		Production Workers' Helpers	51-9198
		Production Workers, All Other	51-9199
		Production, Planning, and Expediting Clerks	43-5061
		Production/Operating Workers, FL Sup/Mgrs	51-1011
		Promotions and Advertising Managers	11-2011
		Proofreaders and Copy Markers	43-9081
		Property, Real Estate, & Community Assn Mgrs	11-9141
		Prosthetists and Orthotists	29-2091
		Protective Service Workers, All Other	33-9099
		Pruners and Tree Trimmers	37-3013
		Psychiatric Aides	31-1013
		Psychiatric Technicians	29-2053
		Psychiatrists	29-1066
		Psychologists, All Other	19-3039
		Psychologists, Industrial-Organizational	19-3032
		Public Address System & Other Announcers	27-3012
		Public Health and Medical Social Workers	21-1022
		Public Relations Managers	11-2031
		Public Relations Specialists	27-3031
		Punching/Cutting/Press Machine S/O/T, M/P	51-4031
		Purchasing Agents and Buyers, Farm Products	13-1021
		Purchasing Agents, Ex. Whole., Retail, & Farm	13-1023
		Purchasing Clerk	43-3061

### P

# Dictionary of Occupations

## Standard Occupational Classification (SOC)

Purchasing Managers	11-3061	Sales Managers	11-2022
<b>Q</b>		Sales Rep., Wholesale & Mfg, Tech./Sci. Prod.	41-4011
Quality Control Engineer	17-2112	Sales Rep., Wholesale/Mfg, Ex. Tech./Sci. Prod.	41-4012
Quality Control Inspector	51-9061	Sales Representatives, Services, All Other	41-3099
Quality Control Technicians	17-3026	Samplers/Inspectors/Testers/Sorters/Weighers	51-9061
<b>R</b>		Sawing Mach. Setters/Operators/Tenders, Wood	51-7041
Radiation Therapists	29-1124	School Bus Drivers	53-3022
Radio and Television Announcers	27-3011	School, Clinical, and Counseling Psychologists	19-3031
Radio Mechanics	49-2021	School, Educational, & Vocational Counselors	21-1012
Radiologic Technologists and Technicians	29-2034	School, Family, and Child Social Workers	21-1021
Rail Car Repairers	49-3043	Scouts and Coaches	27-2022
Rail Yard Engineers/Dinkey Operators/Hostlers	53-4013	Sculptors/Painters/Illustrators & Other Fine Artists	27-1013
Rail-Track Laying & Maintenance Equip. Oper.	47-4061	Searchers, Title Examiners, and Abstractors	23-2093
Ranch, Farm and Other Agricultural Managers	11-9011	Secondary Sch. Teachers, Ex. Spec. & Voc. Ed.	25-2031
Ranchers and Farmers	11-9012	Secretaries, Ex. Legal, Medical, & Executive	43-6014
Real Estate Brokers	41-9021	Securities/Commodities/Fin. Serv. Sales Agents	41-3031
Real Estate Sales Agents	41-9022	Security and Fire Alarm Systems Installers	49-2098
Real Estate, Property, & Community Assn Mgrs	11-9141	Security Guards	33-9032
Receiving, Shipping and Traffic Clerks	43-5071	Self-Enrichment Education Teachers	25-3021
Receptionists and Information Clerks	43-4171	Semiconductor Processors	51-9141
Recreation Workers	39-9032	Sep./Filter/Clarify/Precipitating/Still Mach. S/O/T	51-9012
Recreational Therapists	29-1125	Septic Tank Servicers and Sewer Pipe Cleaners	47-4071
Recreational Vehicle Service Technicians	49-3092	Service Station Attendants	53-6031
Recruitment, Empl., & Placement Specialists	13-1071	Service Unit Operators, Oil, Gas, and Mining	47-5013
Recyclable Material and Refuse Collectors	53-7081	Set and Exhibit Designers	27-1027
Referees, Umpires and Other Sports Officials	27-2023	Sewer Pipe Cleaners and Septic Tank Servicers	47-4071
Refractory Materials Repairers, Ex. Brickmasons	49-9045	Sewers, Custom/Tailors/Dressmakers	51-6052
Refrigeration, Heating, & AC Mechanics/Installers	49-9021	Sewers, Hand	51-6051
Refuse and Recyclable Material Collectors	53-7081	Sewing Machine Operators	51-6031
Regional and Urban Planners	19-3051	Shampooers	39-5093
Registered Nurses	29-1111	Sheet Metal Workers	47-2211
Rehabilitation Counselors	21-1015	Sheriff and Police Patrol Officers	33-3051
Reinforcing Iron and Rebar Workers	47-2171	Ship Engineers	53-5031
Religious Activities, and Education Directors	21-2021	Ship, Tank Car, and Truck Loaders	53-7121
Religious Workers, All Other	21-2099	Shipping, Receiving, and Traffic Clerks	43-5071
Remedial Ed., Adult Literacy, & GED Teachers	25-3011	Singers and Musicians	27-2042
Rental and Counter Clerks	41-2021	Ski Patrol/Lifeguards/Rec. Prot. Serv. Wrks	33-9092
Repair and Maintenance Workers, General	49-9042	Skin Care Specialists	39-5094
Repairers/Mechanics/Installers, FL Sup/Mgrs	49-1011	Slaughtering and Meat Packers	51-3023
Reporters and Correspondents	27-3022	Slicing/Cutting Mach. Setters/Operators/Tenders	51-9032
Reservation/Trans. Ticket Agents & Travel Clerks	43-4181	Social and Community Service Managers	11-9151
Residential Advisors	39-9041	Social and Human Service Assistants	21-1093
Respiratory Therapists	29-1126	Social Science Research Assistants	19-4061
Respiratory Therapy Technicians	29-2054	Social Scientists & Related Workers, All Other	19-3099
Retail & Wholesale Buyers, Ex. Farm Products	13-1022	Social Workers, All Other	21-1029
Retail Sales Workers, First-Line Superv./Mgrs	41-1011	Soil and Plant Scientists	19-1013
Retail Salespersons	41-2031	Solderers, Welders, Cutters, and Brazers	51-4121
Revenue Agents, Tax Examiners, & Collectors	13-2081	Sorters and Graders, Agricultural Products	45-2041
Riggers	49-9096	Sorters/Inspectors/Testers/Samplers/Weighers	51-9061
Rock Splitters, Quarry	47-5051	Sound Engineering Technicians	27-4014
Rolling Machine Setters/Operators/Tenders, M/P	51-4023	Space and Atmospheric Scientists	19-2021
Roofers	47-2181	Special Ed. Teachers, Pre./Kinder./Elem. Sch.	25-2041
Roofers' Helpers	47-3016	Special Education Teachers, Middle School	25-2042
Rotary Drill Operators, Oil and Gas	47-5012	Special Education Teachers, Secondary School	25-2043
Roustabouts, Oil and Gas	47-5071	Speech-Language Pathologists	29-1127
<b>S</b>		Spraying/Painting/Coating Machine Setters, O/T	51-9121
Safe and Locksmiths Repairers	49-9094	Stable Attendant	39-2021
Safety & Health Engineers, Ex. Mining Safety	17-2111	Stationary Engineers and Boiler Operators	51-8021
Sailors and Marine Oilers	53-5011	Statistical Assistants	43-9111
Sales and Related Workers, All Other	41-9099	Statisticians	15-2041
		Steamfitters, Plumbers, and Pipefitters	47-2152
		Steel and Structural Iron Workers	47-2221
		Stenographers	23-2091
		Stock Clerks and Order Fillers	43-5081

# Dictionary of Occupations

## Standard Occupational Classification (SOC)

Stonemasons	47-2022	Truck Drivers, Light or Delivery Services	53-3033
Storage, Transportation, & Distribution Managers	11-3071	Truck, Tank Car, and Ship Loaders	53-7121
Structural Iron and Steel Workers	47-2221	Tuners and Musical Instrument Repairers	49-9063
Structural Metal Fabricators and Fitters	51-2041	Typists and Word Processors	43-9022
Stucco Mas./Painters/Paper/Plasterers--Helpers	47-3014		
Stucco Masons and Plasterers	47-2161	<b>U</b>	
Substance Abuse & Behavioral Dis. Counselors	21-1011	Umpires, Referees and Other Sports Officials	27-2023
Substance Abuse & Mental Health Social Work.	21-1023	Upholsterers	51-6093
Surfacing, Paving, & Tamping Equip. Operators	47-2071	Urban and Regional Planners	19-3051
Surgeons	29-1067	Ushers, Lobby Attendants, and Ticket Takers	39-3031
Surgical Technologists	29-2055	Utilities, Meter Readers	43-5041
Survey Researchers	19-3022		
Surveying and Mapping Technicians	17-3031	<b>V</b>	
Surveyors	17-1022	Vending/Coin/Amusement Machine Serv/Repair	49-9091
Switchboard Operators, Inc. Answering Service	43-2011	Vet. Assistants & Laboratory Animal Caretakers	31-9096
		Veterinarians	29-1131
<b>T</b>		Veterinary Technologists and Technicians	29-2056
Tailors, Dressmakers, and Custom Sewers	51-6052	Video and Audio Equipment Technicians	27-4011
Tank Car, Truck, and Ship Loaders	53-7121	Video and Film Editors	27-4032
Tapers	47-2082	Vocational Education Teachers, Middle School	25-2023
Tapers, Coil Winders, and Finishers	51-2021	Vocational Education Teachers, Secondary Sch.	25-2032
Tax Examiners, Collectors, & Revenue Agents	13-2081	Vocational, Educational, & School Counselors	21-1012
Tax Preparers	13-2082		
Taxi Drivers and Chauffeurs	53-3041	<b>W</b>	
Teacher Assistants	25-9041	Waiters and Waitresses	35-3031
Teachers and Instructors, All Other	25-3099	Water/Liquid Waste Treatment Plant/System Op.	51-8031
Team Assemblers	51-2092	Webmaster	15-1099
Technical Writers	27-3042	Weighers/Inspectors/Testers/Sorters/Samplers	51-9061
Telecomm. Equip. Install/Repair, Ex. Line Install	49-2022	Weighers/Meas./Checkers/Samplers, Recordkp	43-5111
Telecommunications Line Installers & Repairers	49-9052	Welders, Cutters, Solderers, and Brazers	51-4121
Telemarketers	41-9041	Welding/Soldering/Brazing Machine Setters, O/T	51-4122
Telephone Operators	43-2021	Wellhead Pumpers	53-7073
Television and Radio Announcers	27-3011	Wholesale & Retail Buyers, Ex. Farm Products	13-1022
Tellers	43-3071	Wildlife Biologists and Zoologists	19-1023
Tennis Pro and Golf Pro	27-2022	Window Trimmers and Merchandise Displayers	27-1026
Testers/Inspectors/Sorters/Samplers/Weighers	51-9061	Woodworkers, All Other	51-7099
Textile Cutting Machine Setters/Oper./Tenders	51-6062	Woodworking Machine Setters, O/T, Ex. Sawing	51-7042
Textile/Apparel/Furnishings Workers, All Other	51-6099	Word Processors and Typists	43-9022
Therapists, All Other	29-1129	Writers and Authors	27-3043
Ticket Agents, Trans./Reserv. & Travel Clerks	43-4181		
Ticket Takers, Ushers, and Lobby Attendants	39-3031	<b>Z</b>	
Tile and Marble Setters	47-2044	Zoologists and Wildlife Biologists	19-1023
Timekeeping and Payroll Clerks	43-3051		
Tire Builders	51-9197		
Tire Repairers and Changers	49-3093		
Title Examiners, Abstractors, and Searchers	23-2093		
Tool and Die Makers	51-4111		
Tool Grinders, Filers, and Sharpeners	51-4194		
Tour Guides and Escorts	39-6021		
Traffic Technicians	53-6041		
Training and Development Managers	11-3042		
Training and Development Specialists	13-1073		
Trans. Attendants, Ex. Flight Attend./Bag Porters	39-6032		
Trans. Equip. Electrical/Electronics Install/Repair	49-2093		
Trans/Mat.-Mov. Mach & Veh Op, FL Sup/Mgrs	53-1031		
Translators and Interpreters	27-3091		
Transportation Inspectors	53-6051		
Transportation Workers, All Other	53-6099		
Transportation, Storage, & Distribution Managers	11-3071		
Travel Agents	41-3041		
Tree Trimmers and Pruners	37-3013		
Trimmers and Cutters, Hand	51-9031		
Truck & Bus Mechanics & Diesel Engine Spec.	49-3031		
Truck Drivers, Heavy and Tractor-Trailer	53-3032		



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