



				1	Edi	ucation, Training & Experience ²		ı	Statewide Projections ¹				Method	dologus		Ohio Ma	leans Jobs
Ref. No.	Ext. SOC	SOC (Truncated)	Occupation Title	Job Family	Education Level	On-the-Job Training	Relevant Work Experience	Starting Wage	Median Wage	Annual Openings	Annual Growth	Base	JobsOhio	2nd Tier	Critical	4-Year No. Postings	No. Employers
1	13-2011.00	13-2011	Accountants and Auditors	Business & Financial Operations Occupations	Bachelor's degree	None	None	\$45,290	\$66,412	4,493	253	٧				14,176	570
2	15-2011.00 29-1141.01	15-2011 29-1141	Actuaries Acute Care Nurses	Computer & Mathematical Occupations Healthcare Practitioners & Technical Occupations	Bachelor's degree Bachelor's degree	Long-term on-the-job training None	None None	\$62,670 \$52,780	\$96,206 \$65,707	99 8.848	25 1.839		٧		٧	2,038 38,406	23 175
4	11-3011.00	11-3011	Administrative Services Managers	Management Occupations	Bachelor's degree	None	Less than 5 years	\$58,950	\$87,292	884	72	٧				248	99
5	29-1141.02	29-1141	Advanced Practice Psychiatric Nurses	Healthcare Practitioners & Technical Occupations	Bachelor's degree	None	None	\$52,780	\$65,707	8,848	1,839				٧	38,406	175
6	17-2011.00	17-2011	Aerospace Engineers	Architecture & Engineering Occupations	Bachelor's degree	None	None	\$79,350	\$112,970	330	30			√		705	65
7	49-3011.00	49-3011	Aircraft Mechanics and Service Technicians	Installation, Maintenance, & Repair Occupations	Certificate/ Some college	None	None	\$38,820	\$61,073	372	44	٧				153	27
8	13-2021.00	13-2021	Appraisers and Assessors of Real Estate	Business & Financial Operations Occupations	Bachelor's degree	Long-term on-the-job training	None	\$29,300	\$57,924	198	41	٧		-		121	15
9	11-9041.00 51-2099.00	11-9041 51-2099	Architectural and Engineering Managers Assemblers and Fabricators. All Other ⁴	Management Occupations Production Occupations	Bachelor's degree	None	5 years or more None	\$93,980	\$132,125 \$30.690	503 2,726	-504	√ √				1,341 0	241
11	27-4011.00	27-4011	Assemblers and Fabricators, All Other - Audio and Video Equipment Technicians	Arts, Design, Entertainment, Sports, & Media Occupations	High school diploma Certificate/ Some college	Moderate-term on-the-job training Short-term on-the-job training	None	\$21,960	\$30,690	137	12			٧		82	42
12	49-3021.00	49-3021	Automotive Body and Related Repairers	Installation, Maintenance, & Repair Occupations	High school diploma	Long-term on-the-job training	None	\$28,780	\$39,487	646	26	٧				157	16
13	49-3023.00	49-3023	Automotive Service Technicians and Mechanics	Installation, Maintenance, & Repair Occupations	Certificate/ Some college	Short-term on-the-job training	None	\$23,620	\$38,515	2,655	35	٧				1,757	74
14	51-3011.00	51-3011	Bakers	Production Occupations	Less than high school	Long-term on-the-job training	None	\$20,620	\$26,513	906	14			٧		8	6
15	43-3011.00	43-3011	Bill and Account Collectors	Office & Administrative Support Occupations	High school diploma	Moderate-term on-the-job training	None	\$25,710	\$35,437	1,356	-42	٧				2,785	200
16	43-3021.00	43-3021	Billing and Posting Clerks and Machine Operators	Office & Administrative Support Occupations Office & Administrative Support Occupations	High school diploma	Moderate-term on-the-job training	None	\$28,280	\$37,810	2,475 6.928	240 -233	٧		-		1,234 3,916	108 454
17 18	43-3031.00 47-2021.00	43-3031 47-2021	Bookkeeping, Accounting, and Auditing Clerks Brickmasons and Blockmasons	Construction & Extraction Occupations	Certificate/ Some college High school diploma	Moderate-term on-the-job training Apprenticeship	None None	\$26,750 \$38,780	\$39,687 \$56.939	398	-233 39	√ √				5,916	454
19	49-3031.00	49-3031	Bus & Truck Mechanics & Diesel Engine Spec.	Installation, Maintenance, & Repair Occupations	High school diploma	Long-term on-the-job training	None	\$32,200	\$47,430	1.186	70	٧				3,032	123
20	53-3022.00	53-3022	Bus Drivers, School	Transportation & Material Moving Occupations	High school diploma	Short-term on-the-job training	None	\$21,440	\$30,689	1,464	103	٧				265	27
21	15-1199.08	15-1199	Business Intelligence Analysts*3	Computer & Mathematical Occupations	Bachelor's degree	None	None	\$45,130	\$84,573	489	50			٧		27,832	437
22	13-1199.00	13-1199	Business Operations Specialists, All Other ³	Business & Financial Operations Occupations	Bachelor's degree	None	None	\$40,610	\$67,746	3,401	250	٧				592	76
23	51-3021.00	51-3021	Butchers and Meat Cutters	Production Occupations	Less than high school	Long-term on-the-job training	None	\$24,900	\$36,230	640	23	٧				106	7
24	51-7011.00	51-7011	Cabinetmakers and Bench Carpenters	Production Occupations	High school diploma	Moderate-term on-the-job training	None	\$25,040	\$36,241	511	17			٧		6	4
25 26	47-2031.00 47-2051.00	47-2031 47-2051	Carpenters Cement Masons and Concrete Finishers	Construction & Extraction Occupations Construction & Extraction Occupations	High school diploma Less than high school	Apprenticeship Moderate-term on-the-job training	None None	\$31,690 \$31,350	\$47,533 \$47.574	2,805 579	191 52	V				47 0	22
27	35-1011.00	35-1011	Chefs and Head Cooks	Food Preparation & Serving Related Occupations	High school diploma	None	5 years or more	\$23,050	\$41,983	601	29	٧				140	20
28	17-2041.00	17-2041	Chemical Engineers	Architecture & Engineering Occupations	Bachelor's degree	None	None	\$59,970	\$96.196	102	9		V			337	59
29	51-9011.00	51-9011	Chemical Equipment Operators/Tenders	Production Occupations	High school diploma	Moderate-term on-the-job training	None	\$30,460	\$48,853	554	-28		٧			7	5
30	51-8091.00	51-8091	Chemical Plant and System Operators	Production Occupations	High school diploma	Moderate-term on-the-job training	None	\$41,410	\$63,434	224	-23		٧			172	39
31	19-4031.00	19-4031	Chemical Technicians	Life, Physical, & Social Science Occupations	Associate's degree	Moderate-term on-the-job training	None	\$31,480	\$46,210	376	17				٧	753	116
32	19-2031.00	19-2031	Chemists	Life, Physical, & Social Science Occupations	Bachelor's degree	None	None	\$46,780	\$69,084	390	20		٧	-		880	77
33	39-9011.00 21-1021.00	39-9011 21-1021	Child Care Workers	Personal Care & Service Occupations Community & Social Service Occupations	High school diploma	Short-term on-the-job training None	None None	\$18,430 \$31,100	\$21,706 \$43.723	6,386 1.222	278 167	V			٧	65 198	13 35
35	17-2051.00	17-2051	Child, Family, and School Social Workers Civil Engineers	Architecture & Engineering Occupations	Bachelor's degree Bachelor's degree	None	None	\$53,870	\$43,723	653	61	٧				846	80
36	13-1031.00	13-1031	Claims Adjusters, Examiners, and Investigators	Business & Financial Operations Occupations	High school diploma	Long-term on-the-job training	None	\$41,980	\$66,792	881	-27	٧				2.692	82
37	21-2011.00	21-2011	Clergy	Community & Social Service Occupations	Bachelor's degree	Moderate-term on-the-job training	None	\$29,320	\$46,025	2,168	77	٧				186	22
38	29-1141.04	29-1141	Clinical Nurse Specialists	Healthcare Practitioners & Technical Occupations	Bachelor's degree	None	None	\$52,780	\$65,707	8,848	1,839				٧	38,406	175
39	19-3031.02	19-3031	Clinical Psychologists	Life, Physical, & Social Science Occupations	Doctoral/ Professional degree	Internship/residency	None	\$45,750	\$74,641	326	54				٧	254	18
40	19-3031.00	19-3031	Clinical, Counseling, and School Psychologists	Life, Physical, & Social Science Occupations	Doctoral/ Professional degree	Internship/residency	None	\$45,750	\$74,641	326	54	٧		-		254	18
41	51-9121.00 21-1099.00	51-9121 21-1099	Coating/Painting/Spraying Machine Setters, O/T Community and Social Service Specialists. All Other ³	Production Occupations Community & Social Service Occupations	High school diploma	Moderate-term on-the-job training None	None None	\$26,020	\$36,354	675 416	-7 30	٧			V	127 0	26
43	21-1099.00	21-1099	Community Health Workers	Community & Social Service Occupations Community & Social Service Occupations	Bachelor's degree High school diploma	Short-term on-the-job training	None	\$27,110	\$37,305	220	22				٧	49	9
44	13-1141.00	13-1141	Compensation, Benefits, and Job Analysis Specialists	Business & Financial Operations Occupations	Bachelor's degree	None	Less than 5 years	\$39,280	\$60,051	314	45	٧				1,330	176
45	13-1041.00	13-1041	Compl. Off., ex. Agric, Con, Hlth/Safety, & Trans.	Business & Financial Operations Occupations	Bachelor's degree	Moderate-term on-the-job training	None	\$38,850	\$63,699	645	54	٧				740	165
46	11-3021.00	11-3021	Computer and Information Systems Managers	Management Occupations	Bachelor's degree	None	5 years or more	\$84,570	\$128,189	1,058	62	٧				7,432	286
47	15-1143.00	15-1143	Computer Network Architects	Computer & Mathematical Occupations	Bachelor's degree	None	5 years or more	\$62,560	\$98,795	339	-7		٧			1,295	140
48	15-1152.00	15-1152	Computer Network Support Specialists	Computer & Mathematical Occupations	Associate's degree	None	None	\$38,350	\$58,747	776	45	٧				206	48
49 50	15-1199.00 15-1131.00	15-1199 15-1131	Computer Occupations, All Other ³ Computer Programmers	Computer & Mathematical Occupations Computer & Mathematical Occupations	Bachelor's degree Bachelor's degree	None None	None None	\$45,130 \$43,610	\$84,573 \$74,488	489 241	-93	٧	V			27,832 4,524	437 281
51	15-1121.00	15-1131	Computer Programmers Computer Systems Analysts	Computer & Mathematical Occupations	Bachelor's degree	None	None	\$60,630	\$86,074	1.867	42	٧				15,531	434
52	15-1199.02	15-1199	Computer Systems Engineers/Architects*3	Computer & Mathematical Occupations	Bachelor's degree	None	None	\$45,130	\$84,573	489	50			√		27,832	437
53	15-1151.00	15-1151	Computer User Support Specialists	Computer & Mathematical Occupations	Certificate/ Some college	None	None	\$31,180	\$48,246	1,440	70	٧				13,387	567
54	51-4011.00	51-4011	Computer-Controlled Machine Tool Oper., M/P	Production Occupations	High school diploma	Moderate-term on-the-job training	None	\$30,010	\$41,630	1,325	13	٧				819	119
55	47-4011.00	47-4011	Construction and Building Inspectors	Construction & Extraction Occupations	High school diploma	Moderate-term on-the-job training	5 years or more	\$38,220	\$59,643	334	19				٧	53	15
56	47-2031.01 47-2061.00	47-2031 47-2061	Construction Carpenters Construction Laborers	Construction & Extraction Occupations Construction & Extraction Occupations	High school diploma	Apprenticeship	None	\$31,690 \$27,040	\$47,533 \$41.088	2,805 5.142	191 392	./			٧	47 310	22 46
57 58	11-9021.00	11-9021	Construction Laborers Construction Managers	Management Occupations	Less than high school Bachelor's degree	Short-term on-the-job training Moderate-term on-the-job training	None None	\$63,620	\$93,643	1,204	134	V				682	107
59	35-2012.00	35-2012	Cooks, Institution and Cafeteria	Food Preparation & Serving Related Occupations	Less than high school	Short-term on-the-job training	None	\$20,350	\$27,398	2,591	72			٧		1,579	49
60	13-1051.00	13-1051	Cost Estimators	Business & Financial Operations Occupations	Bachelor's degree	Moderate-term on-the-job training	None	\$39,580	\$62,312	1,211	93	٧				253	63
61	19-3031.03	19-3031	Counseling Psychologists	Life, Physical, & Social Science Occupations	Doctoral/ Professional degree	Internship/residency	None	\$45,750	\$74,641	326	54				٧	254	18
62	29-1141.03	29-1141	Crtitical Care Nurses	Healthcare Practitioners & Technical Occupations	Bachelor's degree	None	None	\$52,780	\$65,707	8,848	1,839				٧	38,406	175
63	43-4051.00	43-4051	Customer Service Representatives	Office & Administrative Support Occupations	High school diploma	Short-term on-the-job training	None	\$23,680	\$34,715	11,757	218	٧				23,162	553
64	51-4031.00	51-4031	Cutting/Punching/Press Machine S/O/T, M/P	Production Occupations	High school diploma	Moderate-term on-the-job training	None	\$24,690	\$34,953	1,773	-128	٧	-			239	54
65 66	15-1141.00 31-9091.00	15-1141 31-9091	Database Administrators Dental Assistants	Computer & Mathematical Occupations Healthcare Support Occupations	Bachelor's degree Certificate/ Some college	None None	None None	\$52,810 \$27.730	\$92,092 \$38.532	309 1.326	28 117	V	٧			2,653 347	193
67	31-9091.00 29-2021.00	31-9091 29-2021	Dental Assistants Dental Hygienists	Healthcare Support Occupations Healthcare Practitioners & Technical Occupations	Associate's degree	None None	None None	\$27,730	\$38,532	1,326 578	11 / 89	V				123	14
68	29-1021.00	29-1021	Dentists, General	Healthcare Practitioners & Technical Occupations	Doctoral/ Professional degree	None	None	\$94,910	\$192.811	158	48	٧				56	6
69	29-2032.00	29-2032	Diagnostic Medical Sonographers	Healthcare Practitioners & Technical Occupations	Associate's degree	None	None	\$52,100	\$65,922	165	43	٧				1,423	56
70	43-5032.00	43-5032	Dispatchers, Except Police, Fire, and Ambulance	Office & Administrative Support Occupations	High school diploma	Moderate-term on-the-job training	None	\$25,410	\$42,297	644	-18	٧				420	75
71	11-9031.00	11-9031	Education Admin., Pre & Child Care Center/Prog.	Management Occupations	Bachelor's degree	None	Less than 5 years	\$29,950	\$45,151	258	46	٧				16	11
72	21-1012.00	21-1012	Educational, Vocational, and School Counselors	Community & Social Service Occupations	Master's degree	None	None	\$36,580	\$54,715	1,125	103				٧	219	48
73 74	17-3023.00 51-2022.00	17-3023 51-2022	Electrical and Electronic Engineering Technicians	Architecture & Engineering Occupations Production Occupations	Associate's degree	None	None	\$39,150	\$62,984 \$32.530	203 847	-3 -191		٧			1,328 727	204 80
75	17-2071.00	17-2071	Electrical and Electronic Equipment Assemblers* Electrical Engineers	Architecture & Engineering Occupations	High school diploma Bachelor's degree	Moderate-term on-the-job training None	None None	\$56,130	\$32,530	446	-191	V				4,151	230
76	49-2094.00	49-2094	Electrical/Electronics Repair, Comm/Indus Equip.	Installation, Maintenance, & Repair Occupations	Certificate/ Some college	Long-term on-the-job training	None	\$39,990	\$59,098	200	0			v		298	62
77	47-2111.00	47-2111	Electricians	Construction & Extraction Occupations	High school diploma	Apprenticeship	None	\$33,990	\$53,629	2,983	198	٧				832	138
78	17-3024.00	17-3024	Electro-Mechanical Technicians	Architecture & Engineering Occupations	Associate's degree	None	None	\$39,800	\$57,550	35	0		٧			88	40
79	17-2072.00	17-2072	Electronics Engineers, Except Computer	Architecture & Engineering Occupations	Bachelor's degree	None	None	\$59,560	\$97,936	258	17			٧		578	115
,,,	25-2021.00	25-2021	Elementary School Teachers, ex. Special Ed.	Education, Training, & Library Occupations	Bachelor's degree	None	None	\$39,600	\$63,404	3,511	248				٧	11	8
80			Emergency Medical Technicians and Paramedics	Healthcare Practitioners & Technical Occupations	Certificate/ Some college	None	None	\$22,010	\$30,909	818	130	٧				1,500	44
80 81	29-2041.00	29-2041															
80 81 82	13-1199.01	13-1199	Energy Auditors*3	Business & Financial Operations Occupations	Bachelor's degree	None	None	\$40,610	\$67,746	3,401	250	-1		٧		592	76 120
80 81						None None None	None None None	\$40,610 \$52,550 \$28,590	\$67,746 \$91,478 \$45,278	3,401 527 203	250 45 15	٧		٧		592 360 960	76 120 130





					Education, Training & Experience ²			Statewide Projections ¹				Methodology ⁵				Ohio Mea		
Ref. No.	Ext. SOC	SOC (Truncated)	Occupation Title	Job Family	Education Level	On-the-Job Training	Relevant Work Experience	Starting Wage	Median Wage	Annual Openings	Annual Growth	Base	JobsOhio	2nd Tier	Critical	4-Year No. Postings	No. Employers	
86	19-2041.00	19-2041	Environmental Scientists/Specialists, inc. Health	Life, Physical, & Social Science Occupations	Bachelor's degree	None	None	\$49,380	\$76,647	331	27				٧	477	93	
87	43-6011.00	43-6011	Executive Secretaries and Administrative Assistants	Office & Administrative Support Occupations	High school diploma	None	Less than 5 years	\$39,700	\$57,916	1,659	-425	٧				6,137	457	
88	51-9041.00	51-9041	Extrud/Form/Pressing/Compacting Mach. S/O/T	Production Occupations	High school diploma	Moderate-term on-the-job training	None	\$25,640	\$33,582	723	-69	٧				17	13	
89 90	29-1062.00 11-9013.00	29-1062 11-9013	Family/General Practitioners Farmers, Ranchers, and Other Agricultural Managers	Healthcare Practitioners & Technical Occupations Management Occupations	Doctoral/ Professional degree	Internship/residency	None 5 years or more	\$94,500 \$51,380	\$192,944 \$74,057	154 5,852	-28	٧			٧	1,071 24	74 5	
90	13-2051.00	13-2051	Financial Analysts	Business & Financial Operations Occupations	High school diploma Bachelor's degree	None None	S years or more None	\$51,380	\$74,057	914	108	٧				5,245	268	
92	13-2051.00	13-2061	Financial Examiners	Business & Financial Operations Occupations	Bachelor's degree	Long-term on-the-job training	None	\$49,370	\$74,139	317	46	٧				1.117	65	
93	11-3031.00	11-3031	Financial Managers	Management Occupations	Bachelor's degree	None	5 years or more	\$73,450	\$121,356	2,052	362	٧				14,142	395	
94	13-2099.01	13-2099	Financial Quantitative Analysts*3	Business & Financial Operations Occupations	Bachelor's degree	Moderate-term on-the-job training	None	\$49,110	\$77,750	567	64			٧		125	33	
95	13-2099.00	13-2099	Financial Specialists, All Other ³	Business & Financial Operations Occupations	Bachelor's degree	Moderate-term on-the-job training	None	\$49,110	\$77,750	567	64	٧				125	33	
96	33-2011.00	33-2011	Firefighters	Protective Service Occupations	Certificate/ Some college	Long-term on-the-job training	None	\$25,670	\$47,863	1,290	50				٧	2	2	
97	41-1012.00	41-1012	First-Line Sup./Mgrs of Non-Retail Sales Workers	Sales & Related Occupations	High school diploma	None	Less than 5 years	\$41,780	\$71,996	1,242	47	٧				4,638 462	324	
98 99	47-1011.00 43-1011.00	47-1011 43-1011	First-Line Sup/Mgrs of Con. Trades/Extract. Work First-Line Sup/Mgrs of Office & Admin. Support	Construction & Extraction Occupations Office & Administrative Support Occupations	High school diploma High school diploma	None None	5 years or more Less than 5 years	\$43,180 \$37,200	\$66,489 \$55,636	1,748 4.529	152 64	٧				17,943	121 576	
100	39-1021.00	39-1021	First-Line Sup/Mers of Personal Serv. Workers	Personal Care & Service Occupations	High school diploma	None	Less than 5 years	\$24,590	\$36,708	911	101	٧				160	16	
101	33-1099.00	33-1099	First-Line Sup/Mgrs, Protective Serv. Work., AO ³	Protective Service Occupations	High school diploma	None	Less than 5 years	-	\$37,066	267	10				٧	0	0	
102	33-1012.00	33-1012	First-Line Superv./Mgrs of Police & Detectives	Protective Service Occupations	High school diploma	Moderate-term on-the-job training	Less than 5 years	\$58,180	\$84,039	159	7			1	٧	44	13	
103	41-1011.00	41-1011	First-Line Superv./Mgrs of Retail Sales Workers	Sales & Related Occupations	High school diploma	None	Less than 5 years	\$24,910	\$39,424	5,793	135	٧				19,810	200	
104	33-1011.00	33-1011	First-Line Supervisors/Mgrs of Correctional Officers	Protective Service Occupations	High school diploma	None	Less than 5 years	\$47,390	\$69,464	30	-6				٧	9	4	
105	53-1031.00	53-1031	FL Sup/Mgr of Trans/MatMov. Mach & Veh Op ⁴	Transportation & Material Moving Occupations	High school diploma	None	Less than 5 years	-	\$53,810	777	39	٧				6,284	370	
106	35-1012.00	35-1012	FL Sup/Mgrs of Food Prep. & Serving Workers	Food Preparation & Serving Related Occupations	High school diploma	None	Less than 5 years	\$22,520	\$31,276	5,036	51	٧				6,915	104	
107	53-1021.00	53-1021 37-1011	FL Sup/Mgrs of Help/Labor/Mat. Movers, Hand ⁴	Transportation & Material Moving Occupations	High school diploma	None	Less than 5 years	630.340	\$53,810	782	47	٧				199	57	
108 109	37-1011.00 37-1012.00	37-1011 37-1012	FL Sup/Mgrs of Housekping & Janitorial Workers FL Sup/Mgrs of Lndscap./Lawn Ser/Groundskp	Building & Grounds Cleaning & Maintenance Occupations Building & Grounds Cleaning & Maintenance Occupations	High school diploma	None None	Less than 5 years	\$28,310 \$31,960	\$42,463 \$46,612	843 673	50 53	٧				404 144	53 8	
110	49-1012.00	49-1012	FL Sup/Mgrs of Mechanics/Installers/Repairers	Installation, Maintenance, & Repair Occupations	High school diploma High school diploma	None	Less than 5 years Less than 5 years	\$41,110	\$64,666	1.499	66	V				4.991	446	
111	51-1011.00	51-1011	FL Sup/Mgrs of Production/Operating Workers	Production Occupations	High school diploma	None	Less than 5 years	\$40,100	\$61,517	2,898	-28	٧				13,616	635	
112	51-3092.00	51-3092	Food Batchmakers	Production Occupations	High school diploma	Moderate-term on-the-job training	None	\$23,810	\$33,922	868	21	٧				42	16	
113	11-9051.00	11-9051	Food Service Managers	Management Occupations	High school diploma	None	Less than 5 years	\$32,630	\$52,005	1,266	36	٧				1,169	53	
114	19-4092.00	19-4092	Forensic Science Technicians	Life, Physical, & Social Science Occupations	Bachelor's degree	Moderate-term on-the-job training	None	\$49,360	\$65,922	50	4				٧	5	4	
115	13-1131.00	13-1131	Fundraisers	Business & Financial Operations Occupations	Bachelor's degree	None	None	\$31,710	\$55,458	521	39	٧				55	20	
116	11-1021.00	11-1021	General and Operations Managers	Management Occupations	Bachelor's degree	None	5 years or more	\$50,180	\$98,760	5,791	360	٧				9,309	430	
117	47-2121.00	47-2121	Glaziers	Construction & Extraction Occupations	High school diploma	Apprenticeship	None	\$30,360	\$43,904	183	12			٧		0	0	
118	27-1024.00	27-1024	Graphic Designers	Arts, Design, Entertainment, Sports, & Media Occupations	Bachelor's degree	None	None	\$30,260	\$47,837	837	26	٧				1,062	190	
119 120	51-4033.00 47-4041.00	51-4033 47-4041	Grind/Lapping/Polish/Buff Mach.Tool S/O/T, M/P Hazardous Materials Removal Workers	Production Occupations Construction & Extraction Occupations	High school diploma	Moderate-term on-the-job training Moderate-term on-the-job training	None None	\$23,910	\$34,303 \$47.461	621 295	-71 20	٧			٧	105 9	23	
120	17-2111.00	17-2111	Health & Safety Engineers, ex. Mining Safety	Architecture & Engineering Occupations	High school diploma Bachelor's degree	None None	None	\$27,990 \$63,010	\$90,034	36	20			V	v	1,883	279	
122	29-2099.00	29-2099	Health Technologists and Technicians, All Other ³	Healthcare Practitioners & Technical Occupations	Certificate/ Some college	None	None	\$29,720	\$40,269	343	54	٧		, ,		827	49	
123	29-9099.00	29-9099	Healthcare Practitioners and Technical Workers, All Other ³	Healthcare Practitioners & Technical Occupations	Certificate/ Some college	None	None	-	\$64,750	46	8				٧	1	1	
124	31-9099.00	31-9099	Healthcare Support Workers, All Other ³	Healthcare Support Occupations	High school diploma	None	None	\$22,960	\$39,520	581	50	٧				71	15	
125	49-9021.00	49-9021	Heating, AC, & Refrigeration Mechanics/Installers	Installation, Maintenance, & Repair Occupations	Certificate/ Some college	Long-term on-the-job training	None	\$30,970	\$47,972	1,377	177	٧				194	61	
126	51-9198.00	51-9198	HelpersProduction Workers	Production Occupations	High school diploma	Short-term on-the-job training	None	\$21,760	\$30,882	2,974	142	٧				2,200	291	
127	31-1011.00	31-1011	Home Health Aides	Healthcare Support Occupations	High school diploma	Short-term on-the-job training	None	\$18,930	\$23,144	12,020	2,928				٧	2,182	49	
128	13-1071.00	13-1071	Human Resource Specialists	Business & Financial Operations Occupations	Bachelor's degree	None	None	\$38,200	\$59,424	2,079	127	٧				3,559	365	
129 130	43-4161.00 17-3026.00	43-4161 17-3026	Human Resources Assis., ex. Payroll & Timekp Industrial Engineering Technicians	Office & Administrative Support Occupations Architecture & Engineering Occupations	Associate's degree Associate's degree	None None	None None	\$29,590 \$38,840	\$39,955 \$56.096	485 275	-12 2			V		1,325 1.689	289 260	
131	17-3026.00	17-3026	Industrial Engineers	Architecture & Engineering Occupations Architecture & Engineering Occupations	Bachelor's degree	None	None	\$58,460	\$82,573	1,102	126	٧				18,379	555	
132	49-9041.00	49-9041	Industrial Machinery Mechanics	Installation, Maintenance, & Repair Occupations	High school diploma	Long-term on-the-job training	None	\$35,520	\$52,865	1,861	137	٧				1,469	257	
133	11-3051.00	11-3051	Industrial Production Managers	Management Occupations	Bachelor's degree	None	5 years or more	\$64,770	\$102,510	738	-13	٧				1,133	239	
134	17-2111.01	17-2111	Industrial Safety and Health Engineers	Architecture & Engineering Occupations	Bachelor's degree	None	None	\$63,010	\$90,034	36	2				٧	1,883	279	
135	53-7051.00	53-7051	Industrial Truck and Tractor Operators	Transportation & Material Moving Occupations	Less than high school	Short-term on-the-job training	None	\$25,790	\$35,257	2,532	77	٧				1,622	158	
136	15-1122.00	15-1122	Information Security Analysts	Computer & Mathematical Occupations	Bachelor's degree	None	Less than 5 years	\$59,300	\$91,467	292	75	٧				5,055	189	
137	15-1199.09	15-1199	Information Technology Project Managers*3	Computer & Mathematical Occupations	Bachelor's degree	None	None	\$45,130	\$84,573	489	50			٧		27,832	437	
138	51-9061.00	51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	Production Occupations	High school diploma	Moderate-term on-the-job training	None	\$26,370	\$39,672	3,014	-421	٧				1,775	234	
139 140	49-9099.00 43-9041.00	49-9099 43-9041	Installation, Maintenance, and Repair Workers, All Other ³ Insurance Claims and Policy Processing Clerks	Installation, Maintenance, & Repair Occupations Office & Administrative Support Occupations	High school diploma High school diploma	Moderate-term on-the-job training Moderate-term on-the-job training	None None	\$25,430 \$28,290	\$39,333 \$39,543	592 2.304	33 201	٧				439	49	
140	41-3021.00	41-3021	Insurance Claims and Policy Processing Clerks Insurance Sales Agents	Sales & Related Occupations	High school diploma	Moderate-term on-the-job training Moderate-term on-the-job training	None	\$28,290	\$49,303	2,304	201	٧				5,009	102	
142	29-1063.00	29-1063	Internists, General ⁴	Healthcare Practitioners & Technical Occupations	Doctoral/ Professional degree	Internship/residency	None	\$93,130	\$194,500	100	19				٧	577	70	
143	43-4111.00	43-4111	Interviewers, Except Eligibility and Loan	Office & Administrative Support Occupations	High school diploma	Short-term on-the-job training	None	\$25,220	\$32,383	1,060	16	٧				2,248	85	
144	25-2012.00	25-2012	Kindergarten Teachers, Except Special Education	Education, Training, & Library Occupations	Bachelor's degree	None	None	\$37,570	\$59,873	625	35				٧	1	1	
145	53-7062.00	53-7062	Laborers/Freight/Stock/Material Movers, Hand	Transportation & Material Moving Occupations	Less than high school	Short-term on-the-job training	None	\$20,850	\$29,596	16,347	761	٧				7,048	279	
146	37-3011.00	37-3011	Landscaping and Groundskeeping Workers	Building & Grounds Cleaning & Maintenance Occupations	Less than high school	Short-term on-the-job training	None	\$20,250	\$28,670	5,908	333			٧	_	428	50	
147	23-1011.00	23-1011	Lawyers Licensed Practical and Licensed Vocational Nurses	Legal Occupations Healthcare Practitioners & Technical Occupations	Doctoral/ Professional degree	None	None	\$57,470	\$100,842	862	22	٧				1,697	151 87	
148 149	29-2061.00 43-4131.00	29-2061 43-4131	Licensed Practical and Licensed Vocational Nurses Loan Interviewers and Clerks	Healthcare Practitioners & Technical Occupations Office & Administrative Support Occupations	Certificate/ Some college	None Short-term on the job training	None None	\$34,220 \$25,560	\$44,285 \$38,769	3,334 1,257	382 130	٧				7,897 947	87 58	
149 150	43-4131.00 13-2072.00	43-4131 13-2072	Loan Interviewers and Clerks Loan Officers	Business & Financial Operations Occupations	High school diploma Bachelor's degree	Short-term on-the-job training Moderate-term on-the-job training	None	\$25,560	\$66,556	1,257	130	٧				8.095	70	
151	13-2072.00	13-2072	Logisticians	Business & Financial Operations Occupations Business & Financial Operations Occupations	Bachelor's degree	None None	None	\$50,900	\$74,519	614	33	٧				2,242	239	
152	53-7063.00	53-7063	Machine Feeders and Offbearers	Transportation & Material Moving Occupations	Less than high school	Short-term on-the-job training	None	\$20,240	\$32,468	520	-9			٧		62	23	
153	51-4041.00	51-4041	Machinists	Production Occupations	High school diploma	Long-term on-the-job training	None	\$29,610	\$42,650	2,854	56	٧				1,400	187	
154	49-9071.00	49-9071	Maintenance and Repair Workers, General	Installation, Maintenance, & Repair Occupations	High school diploma	Moderate-term on-the-job training	None	\$27,040	\$40,767	5,895	320	٧				8,047	604	
155	49-9043.00	49-9043	Maintenance Workers, Machinery	Installation, Maintenance, & Repair Occupations	High school diploma	Long-term on-the-job training	None	\$30,430	\$46,836	278	14		٧			7	4	
156	13-1111.00	13-1111	Management Analysts	Business & Financial Operations Occupations	Bachelor's degree	None	Less than 5 years	\$46,500	\$79,873	2,219	291	٧		L'		16,941	367	
157	11-9199.00	11-9199	Managers, All Other ³	Management Occupations	Bachelor's degree	None	Less than 5 years	\$63,160	\$100,277	1,896	169	٧				1,621	192	
158	17-2199.04	17-2199	Manufacturing Engineers*3	Architecture & Engineering Occupations	Bachelor's degree	None	None	\$52,550	\$91,478	527	45			٧		360	120	
159 160	13-1161.00	13-1161 11-2021	Market Research Analysts and Marketing Specialists Marketing Managers	Business & Financial Operations Occupations Management Occupations	Bachelor's degree	None	None S years or more	\$38,110	\$61,593	2,766 532	434 44	٧				8,314 14,429	366 478	
160	11-2021.00 21-1013.00	21-1013	Marketing Managers Marriage and Family Therapists	Community & Social Service Occupations	Bachelor's degree Master's degree	None Internship/residency	5 years or more None	\$76,580 \$36,110	\$125,610 \$47,704	67	11	v			٧	29	21	
162	31-9011.00	31-9011	Massage Therapists	Healthcare Support Occupations	Certificate/ Some college	None None	None	\$36,110	\$47,704	450	85	٧				67	11	
163	17-3027.00	17-3027	Mechanical Engineering Technicians	Architecture & Engineering Occupations	Associate's degree	None	None	\$40,570	\$55,185	218	16	_ ·	٧			145	49	
164	17-2141.00	17-2141	Mechanical Engineers	Architecture & Engineering Occupations	Bachelor's degree	None	None	\$56,120	\$79,268	1,165	181	٧				4,355	275	
165	29-2012.00	29-2012	Medical and Clinical Laboratory Technicians ⁴	Healthcare Practitioners & Technical Occupations	Associate's degree	None	None	,	\$51,770	464	60	٧				2,811	79	
166	29-2011.00	29-2011	Medical and Clinical Laboratory Technologists⁴	Healthcare Practitioners & Technical Occupations	Bachelor's degree	None	None	-	\$51,770	504	66	٧				2,637	77	
167	11-9111.00	11-9111	Medical and Health Services Managers	Management Occupations	Bachelor's degree	None	Less than 5 years	\$65,100	\$93,817	1,570	253	٧				13,146	163	
	24 4022 00	21-1022	Medical and Public Health Social Workers	Community & Social Service Occupations	A Acceptable of Control	to be one obtain for at door or	None	\$38,520	\$54,786	1,174	153	٧	1	1 '	1 '	2,443	69	
168 169	21-1022.00 31-9092.00	31-9092	Medical Assistants	Healthcare Support Occupations	Master's degree Certificate/ Some college	Internship/residency None	None	\$25,160	\$33,028	3,146	464	٧				13,477	107	





					Education, Training & Experience ²				Statewide Projections ¹				Methodology ⁵			Ohio M	leans Jobs
Ref. No.	Ext. SOC	SOC (Truncated)	Occupation Title	Job Family	Education Level	On-the-Job Training	Relevant Work Experience	Starting Wage	Median Wage	Annual Openings	Annual Growth	Base	JobsOhio	2nd Tier	Critical	4-Year No. Postings	No. Employers
170	29-2071.00	29-2071	Medical Records and Health Information Technicians	Healthcare Practitioners & Technical Occupations	Certificate/ Some college	None	None	\$28,530	\$40,754	718	127	٧				5,718	125
171	19-1042.00	19-1042	Medical Scientists, Except Epidemiologists	Life, Physical, & Social Science Occupations	Doctoral/ Professional degree	None	None	\$49,060	\$69,442	426	52	٧				3,870	70
172	43-6013.00	43-6013	Medical Secretaries	Office & Administrative Support Occupations	High school diploma	Moderate-term on-the-job training	None	\$25,390	\$34,962	5,278	654	٧			-	9,304	109
173 174	21-1023.00 21-1014.00	21-1023 21-1014	Mental Health and Substance Abuse Social Workers	Community & Social Service Occupations Community & Social Service Occupations	Master's degree	Internship/residency	None	\$30,400	\$41,184 \$43,300	641 700	84 112	٧				2,742 218	65 29
175	49-9044.00	49-9044	Mental Health Counselors ⁴ Millwrights	Installation, Maintenance, & Repair Occupations	Master's degree	Internship/residency	None None	\$42.180	\$43,300	245	27		٧			210	4
176	51-9023.00	51-9023	Mixing/Blending Machine Setters/Operators/Tenders	Production Occupations	High school diploma High school diploma	Apprenticeship Moderate-term on-the-job training	None	\$26,640	\$38.394	791	-38	v	-			340	43
177	51-4072.00	51-4072	Molding/Coremaking/Casting Mach. S/O/T, M/P	Production Occupations Production Occupations	High school diploma	Moderate-term on-the-job training	None	\$23,730	\$30,759	1,411	-236	٧				233	47
178	51-4081.00	51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	Production Occupations	High school diploma	Moderate-term on-the-job training	None	\$25,730	\$35,828	1,427	-38	٧				42	20
179	27-2042.00	27-2042	Musicians and Singers ³	Arts, Design, Entertainment, Sports, & Media Occupations	Less than high school	Long-term on-the-job training	None	-	\$49,629	629	11	٧				10	6
180	11-9121.00	11-9121	Natural Sciences Managers	Management Occupations	Bachelor's degree	None	5 years or more	\$81,150	\$124,048	113	16			٧		1,764	78
181	15-1142.00	15-1142	Network and Comp. Systems Architects and Admins	Computer & Mathematical Occupations	Bachelor's degree	None	None	\$51,350	\$76,954	861	4	٧				9,202	423
182	51-4012.00	51-4012	Numerical Tool and Process Control Programmers	Production Occupations	Certificate/ Some college	Moderate-term on-the-job training	None	\$36,170	\$50,512	247	34			٧	i I	91	29
183	29-1151.00	29-1151	Nurse Anesthetists	Healthcare Practitioners & Technical Occupations	Master's degree	None	None	\$120,030	\$162,629	153	26				٧	23	9
184	29-1171.00	29-1171	Nurse Practitioners	Healthcare Practitioners & Technical Occupations	Master's degree	None	None	\$86,580	\$103,380	574	201	٧			1	1,324	68
185	31-1014.00	31-1014	Nursing Assistants	Healthcare Support Occupations	Certificate/ Some college	None	None	\$22,010	\$28,190	8,184	358			٧		12,848	76
186	29-9011.00	29-9011	Occupational Health and Safety Specialists	Healthcare Practitioners & Technical Occupations	Bachelor's degree	None	None	\$47,540	\$74,641	228	22				٧	402	108
187	29-9012.00	29-9012	Occupational Health and Safety Technicians	Healthcare Practitioners & Technical Occupations	High school diploma	Moderate-term on-the-job training	None	\$37,120	\$52,668	47	4				٧	31	21
188	31-2011.00	31-2011	Occupational Therapist Assistants	Healthcare Support Occupations	Associate's degree	None	None	\$47,770	\$61,583	576	95	٧			-	1,116	45
189	29-1122.00	29-1122	Occupational Therapists	Healthcare Practitioners & Technical Occupations	Master's degree	None	None	\$62,350	\$86,299	367	104	٧				2,717	55
190	43-9199.00	43-9199	Office and Administrative Support Workers, All Other ³	Office & Administrative Support Occupations	High school diploma	Short-term on-the-job training	None	\$25,110	\$40,144	690	64	٧			-	0	0
191	43-9061.00	43-9061	Office Clerks, General	Office & Administrative Support Occupations	High school diploma	Short-term on-the-job training	None	\$21,410	\$33,766	10,498	-287	٧				3,697	327
192	47-2073.00	47-2073	Operating Engineers & Other Con. Equip. Op. Operations Research Analysts	Construction & Extraction Occupations Computer & Mathematical Occupations	High school diploma	Moderate-term on-the-job training	None	\$38,810	\$54,544	1,780	87 94	V				97 3 959	23 290
193 194	15-2031.00 29-2057.00	15-2031 29-2057	Operations Research Analysts Ophthalmic Medical Technicians	Computer & Mathematical Occupations Healthcare Practitioners & Technical Occupations	Bachelor's degree Certificate/ Some college	None None	None None	\$55,870 \$27,060	\$81,437 \$37,275	346 156	94 18	٧		٧		3,959 56	10
194	29-2057.00	29-2057	Ophthalmic Medical Technologists*3	Healthcare Practitioners & Technical Occupations Healthcare Practitioners & Technical Occupations	Certificate/ Some college Certificate/ Some college	None None	None None	\$27,060	\$40,269	343	54			٧		827	49
195	29-2081.00	29-2099	Opticians, Dispensing	Healthcare Practitioners & Technical Occupations	High school diploma	Long-term on-the-job training	None	\$29,720	\$40,269	263	37	٧				39	11
197	43-4151.00	43-4151	Order Clerks	Office & Administrative Support Occupations	High school diploma	Short-term on-the-job training	None	\$23,450	\$32,208	1.073	-43	٧				342	107
198	51-9111.00	51-9111	Packaging and Filling Machine Operators/Tenders	Production Occupations	High school diploma	Moderate-term on-the-job training	None	\$22,760	\$32,206	2,089	29	٧				2,260	149
199	47-2141.00	47-2141	Painters, Construction and Maintenance	Construction & Extraction Occupations	Less than high school	Moderate-term on-the-job training	None	\$27,740	\$41,396	848	41	٧				49	32
200	23-2011.00	23-2011	Paralegals and Legal Assistants	Legal Occupations	Associate's degree	None	None	\$31,400	\$46,384	872	45	٧			1	489	115
201	41-2022.00	41-2022	Parts Salespersons	Sales & Related Occupations	Less than high school	Moderate-term on-the-job training	None	\$19,650	\$29,100	1,320	19			٧		1,200	17
202	29-1069.07	29-1069	Pathologists*4	Healthcare Practitioners & Technical Occupations	Doctoral/ Professional degree	Internship/residency	None	\$91,560	\$206,920	534	117				٧	457	58
203	29-1065.00	29-1065	Pediatricians, General	Healthcare Practitioners & Technical Occupations	Doctoral/ Professional degree	Internship/residency	None	\$104,360	\$155,976	49	10				٧	226	25
204	39-9021.00	39-9021	Personal and Home Care Aides	Personal Care & Service Occupations	High school diploma	Short-term on-the-job training	None	\$19,410	\$23,718	6,241	1,127				٧	837	40
205	13-2052.00	13-2052	Personal Financial Advisors	Business & Financial Operations Occupations	Bachelor's degree	Long-term on-the-job training	None	\$43,300	\$76,441	780	164	٧				1,690	45
206	29-1051.00	29-1051	Pharmacists	Healthcare Practitioners & Technical Occupations	Doctoral/ Professional degree	None	None	\$82,460	\$124,628	628	72	٧			-	6,727	78
207	29-2052.00	29-2052	Pharmacy Technicians	Healthcare Practitioners & Technical Occupations	High school diploma	Moderate-term on-the-job training	None	\$21,710	\$29,998	1,516	184	٧				5,221	98
208	31-9097.00	31-9097	Phlebotomists	Healthcare Support Occupations	Certificate/ Some college	None	None	\$26,500	\$35,311	722	112	٧				1,968	47
209	29-1069.08	29-1069	Physical Medicine and Rehabilitation Physicians*4	Healthcare Practitioners & Technical Occupations	Doctoral/ Professional degree	Internship/residency	None	\$91,560	\$206,920	534	117	.,			٧	457	58
210	31-2021.00	31-2021 29-1123	Physical Therapist Assistants	Healthcare Support Occupations Healthcare Practitioners & Technical Occupations	Associate's degree Doctoral/ Professional degree	None	None	\$45,850 \$65,800	\$60,676 \$89.011	1,005	171	٧				1,407 3.627	47
211	29-1123.00 29-1071.00	29-1123	Physical Therapists Physician Assistants	Healthcare Practitioners & Technical Occupations Healthcare Practitioners & Technical Occupations	,	None None	None None	\$65,800	\$89,011	537 294	175 99	V				1.384	69 71
212	29-10/1.00	29-10/1		Healthcare Practitioners & Technical Occupations Healthcare Practitioners & Technical Occupations	Master's degree Doctoral/ Professional degree		None	\$78,810	\$108,426	534	117	٧				457	58
214	47-2152.00	47-2152	Physicians and Surgeons, All Other ⁴ Plumbers, Pipefitters, and Steamfitters	Construction & Extraction Occupations	High school diploma	Internship/residency Apprenticeship	None	\$34,190	\$56.877	2.019	238	٧	4			158	23
215	43-5031.00	43-5031	Police, Fire, and Ambulance Dispatchers	Office & Administrative Support Occupations	High school diploma	Moderate-term on-the-job training	None	\$31,250	\$45,918	404	17	·			٧	186	18
216	25-2011.00	25-2011	Preschool Teachers, Except Special Education	Education, Training, & Library Occupations	Associate's degree	None	None	\$19,800	\$26.897	1,572	228			٧		167	12
217	29-1069.09	29-1069	Preventive Medicine Physicians*4	Healthcare Practitioners & Technical Occupations	Doctoral/ Professional degree	Internship/residency	None	\$91,560	\$206,920	534	117				٧	457	58
218	51-5112.00	51-5112	Printing Press Operators and Job Printers	Production Occupations	High school diploma	Moderate-term on-the-job training	None	\$24,490	\$36,818	793	-102	٧				277	66
219	21-1092.00	21-1092	Probation Officers & Correct. Treatment Spec.	Community & Social Service Occupations	Bachelor's degree	Short-term on-the-job training	None	\$36,230	\$50,314	253	6				٧	4	2
220	51-9199.00	51-9199	Production Workers, All Other ³	Production Occupations	High school diploma	Moderate-term on-the-job training	None	\$21,060	\$33,384	2,168	78	٧			1	15	3
221	43-5061.00	43-5061	Production, Planning, and Expediting Clerks	Office & Administrative Support Occupations	High school diploma	Moderate-term on-the-job training	None	\$31,600	\$48,240	1,485	45	٧				2,499	354
222	11-9141.00	11-9141	Property, Real Estate & Community Assn Mgrs	Management Occupations	High school diploma	None	Less than 5 years	\$34,690	\$53,167	799	94	٧			1	789	79
223	33-9099.00	33-9099	Protective Service Workers, All Other ³	Protective Service Occupations	High school diploma	Short-term on-the-job training	None		\$30,514	1,193	37				٧	134	22
224	31-1013.00	31-1013	Psychiatric Aides	Healthcare Support Occupations	High school diploma	Short-term on-the-job training	None	\$25,650	\$36,614	170	12				√	3	2
225	29-2053.00	29-2053	Psychiatric Technicians	Healthcare Practitioners & Technical Occupations	Certificate/ Some college	Short-term on-the-job training	Less than 5 years	\$26,140	\$33,631	112	13				√	410	38
226	29-1066.00	29-1066	Psychiatrists	Healthcare Practitioners & Technical Occupations	Doctoral/ Professional degree	Internship/residency	None	\$93,300	\$195,933	50	11				٧	212	32
227	19-3039.00	19-3039	Psychologists, All Other ³	Life, Physical, & Social Science Occupations	Master's degree	Internship/residency	None		\$104,166	35	5				٧	6	3
228	27-3031.00	27-3031	Public Relations Specialists	Arts, Design, Entertainment, Sports, & Media Occupations	Bachelor's degree	None	None	\$36,870	\$60,272	764	50	٧				2,573	272
229	13-1023.00	13-1023	Purchasing Agents, ex. Whole., Retail, & Farm ⁴	Business & Financial Operations Occupations	Bachelor's degree	Moderate-term on-the-job training	None Fuces of more	670 220	\$62,120	1,013	-75	٧				3,248	385
230	11-3061.00	11-3061	Purchasing Managers	Management Occupations Healtheara Practitionars & Technical Occupations	Bachelor's degree	None	5 years or more	\$78,330	\$120,041	220 343	16 54			٧		3,182 827	283 49
231 232	29-2099.06 29-2034.00	29-2099 29-2034	Radiologic Technicians*3 Radiologic Technologists	Healthcare Practitioners & Technical Occupations Healthcare Practitioners & Technical Occupations	Certificate/ Some college Associate's degree	None None	None None	\$29,720 \$43,220	\$40,269 \$57,795	552	54 81	٧		٧		3.641	67
	41-9022.00		Real Estate Sales Agents	Sales & Related Occupations			None	\$43,220	\$36,365	1,581	137		_			164	31
233	43-4171.00	41-9022 43-4171	Receptionists and Information Clerks	Office & Administrative Support Occupations	High school diploma High school diploma	Moderate-term on-the-job training Short-term on-the-job training	None	\$23,430	\$27,473	3,394	12	٧		٧		2.107	188
235	53-7081.00	53-7081	Refuse and Recyclable Material Collectors	Transportation & Material Moving Occupations	Less than high school	Short-term on-the-job training	None	\$23,950	\$38.827	1.009	98	٧				32	5
236	29-1141.00	29-1141	Registered Nurses	Healthcare Practitioners & Technical Occupations	Bachelor's degree	None	None	\$52,780	\$65,707	8.848	1.839	v				38,406	175
237	21-1015.00	21-1015	Rehabilitation Counselors	Community & Social Service Occupations	Master's degree	None	None	\$24,240	\$35,289	618	79	٧				25	14
238	39-9041.00	39-9041	Residential Advisors	Personal Care & Service Occupations	High school diploma	Short-term on-the-job training	None	\$21,420	\$28,274	616	62			٧		3	3
239	29-1126.00	29-1126	Respiratory Therapists	Healthcare Practitioners & Technical Occupations	Associate's degree	None	None	\$44,680	\$57,754	504	164	٧				2,593	55
240	17-2199.08	17-2199	Robotics Engineers*3	Architecture & Engineering Occupations	Bachelor's degree	None	None	\$52,550	\$91,478	527	45			٧		360	120
241	47-2181.00	47-2181	Roofers	Construction & Extraction Occupations	Less than high school	Moderate-term on-the-job training	None	\$27,840	\$39,875	644	60	٧				0	0
242	41-9031.00	41-9031	Sales Engineers	Sales & Related Occupations	Bachelor's degree	Moderate-term on-the-job training	None	\$57,640	\$89,646	377	5			٧	T	1,579	152
243	11-2022.00	11-2022	Sales Managers	Management Occupations	Bachelor's degree	None	Less than 5 years	\$74,180	\$124,459	1,072	52	٧				7,183	385
244	41-4011.00	41-4011	Sales Rep., Wholesale & Mfg, Tech./Sci. Prod.	Sales & Related Occupations	Bachelor's degree	Moderate-term on-the-job training	None	\$41,320	\$77,948	1,999	37	٧				4,519	237
245	41-4012.00	41-4012	Sales Rep., Wholesale/Mfg, ex. Tech./Sci. Prod.	Sales & Related Occupations	High school diploma	Moderate-term on-the-job training	None	\$34,440	\$59,327	5,121	67	٧				9,344	345
246	41-3099.00	41-3099	Sales Representatives, Services, All Other ³	Sales & Related Occupations	High school diploma	Moderate-term on-the-job training	None	\$27,850	\$52,437	4,263	181	٧				10	5
247	19-3031.01	19-3031	School Psychologists	Life, Physical, & Social Science Occupations	Doctoral/ Professional degree	Internship/residency	None	\$45,750	\$74,641	326	54				٧	254	18
248	15-1199.10	15-1199	Search Marketing Strategists*3	Computer & Mathematical Occupations	Bachelor's degree	None	None	\$45,130	\$84,573	489	50			٧		27,832	437
249	43-6014.00	43-6014	Secretaries, Except Legal, Medical, and Executive	Office & Administrative Support Occupations	High school diploma	Short-term on-the-job training	None	\$24,260	\$36,675	7,758	-729	٧				2,054	322
250	41-3031.00	41-3031	Securities/Commodities/Fin. Serv. Sales Agents	Sales & Related Occupations	Bachelor's degree	Moderate-term on-the-job training	None	\$34,530	\$59,554	1,103	77	٧				14,651	150
251	33-9032.00	33-9032	Security Guards	Protective Service Occupations	High school diploma	Short-term on-the-job training	None	\$20,060	\$27,314	4,474	145			٧		2,316	104
	25-3021.00	25-3021	Self-Enrichment Education Teachers	Education, Training, & Library Occupations	High school diploma	None	Less than 5 years None	\$21,960 \$24,210	\$35,647 \$33,642	1,371 3,323	158 -35	٧				33 1,864	9 237
252 253	43-5071.00	43-5071	Shipping, Receiving, and Traffic Clerks	Office & Administrative Support Occupations	High school diploma	Short-term on-the-job training											





					Ed	ucation, Training & Experience ²		Statewide Projections ¹				Methodology ⁵				Ohio Means Jobs	
Ref. No.	Ext. SOC	SOC (Truncated)	Occupation Title	Job Family	Education Level	On-the-Job Training	Relevant Work Experience	Starting Wage	Median Wage	Annual Openings	Annual Growth	Base	JobsOhio	2nd Tier	Critical	4-Year No. Postings	No. Employers
254	11-9151.00	11-9151	Social and Community Service Managers	Management Occupations	Bachelor's degree	None	Less than 5 years	\$47,010	\$69,875	505	80	٧				498	67
255	21-1093.00	21-1093	Social and Human Service Assistants	Community & Social Service Occupations	High school diploma	Short-term on-the-job training	None	\$22,840	\$33,099	2,233	215	٧				5,201	114
256	19-4061.00	19-4061	Social Science Research Assistants	Life, Physical, & Social Science Occupations	Bachelor's degree	None	None	\$28,100	\$44,193	40	2				٧	69	11
257	19-3099.00	19-3099	Social Scientists and Related Workers, All Other ³	Life, Physical, & Social Science Occupations	Bachelor's degree	None	None	-	\$77,314	185	15				٧	1	1
258	15-1132.00	15-1132	Software Developers, Applications	Computer & Mathematical Occupations	Bachelor's degree	None	None	\$58,530	\$93,422	3,011	615	٧				16,015	338
259	15-1133.00	15-1133	Software Developers, Systems Software	Computer & Mathematical Occupations	Bachelor's degree	None	None	\$68,820	\$101,149	378	9		٧			1,314	127
260	15-1199.01	15-1199	Software Quality Assurance Engineers and Testers*3	Computer & Mathematical Occupations	Bachelor's degree	None	None	\$45,130	\$84,573	489	50			٧		27,832	437
261	17-2199.11	17-2199	Solar Energy Systems Engineers*3	Architecture & Engineering Occupations	Bachelor's degree	None	None	\$52,550	\$91,478	527	45			٧		360	120
262	25-2059.00	25-2059	Special Education Teachers, All Other	Education, Training, & Library Occupations	Bachelor's degree	None	None	-	\$38,329	58	8				٧	5	4
263	25-2052.00	25-2052	Special Education Teachers, Kindergarten/Elementary	Education, Training, & Library Occupations	Bachelor's degree	None	None	\$37,770	\$56,373	599	47				٧	28	6
264	25-2051.00	25-2051	Special Education Teachers, Preschool	Education, Training, & Library Occupations	Bachelor's degree	None	None	\$37,100	\$65,451	76	9				٧	0	0
265	29-1127.00	29-1127	Speech-Language Pathologists	Healthcare Practitioners & Technical Occupations	Master's degree	Internship/residency	None	\$50,080	\$76,136	375	90	٧				1,728	46
266	47-2221.00	47-2221	Structural Iron and Steel Workers	Construction & Extraction Occupations	High school diploma	Apprenticeship	None	\$44,950	\$62,048	383	38	٧				0	0
267	21-1011.00	21-1011	Substance Abuse & Behavioral Dis. Counselors ⁴	Community & Social Service Occupations	Bachelor's degree	None	None	-	\$43,300	395	51	٧				201	31
268	29-2055.00	29-2055	Surgical Technologists	Healthcare Practitioners & Technical Occupations	Certificate/ Some college	None	None	\$32,090	\$46,987	363	36	٧				2,303	58
269	25-9041.00	25-9041	Teacher Assistants	Education, Training, & Library Occupations	Certificate/ Some college	None	None	\$19,550	\$26,559	3,996	321				٧	101	17
270	51-2092.00	51-2092	Team Assemblers ⁴	Production Occupations	High school diploma	Moderate-term on-the-job training	None	-	\$30,690	4,125	-444	٧				391	71
271	49-2022.00	49-2022	Telecomm. Equip. Install/Repair, ex. Line Install	Installation, Maintenance, & Repair Occupations	Certificate/ Some college	Moderate-term on-the-job training	None	\$33,680	\$52,394	856	-62	٧				270	36
272	43-3071.00	43-3071	Tellers	Office & Administrative Support Occupations	High school diploma	Short-term on-the-job training	None	\$21,970	\$29,237	1,939	-186			٧		12,074	67
273	29-1129.00	29-1129	Therapists, All Other ³	Healthcare Practitioners & Technical Occupations	Bachelor's degree	None	None	-	\$69,722	95	20				٧	0	0
274	51-4111.00	51-4111	Tool and Die Makers	Production Occupations	Certificate/ Some college	Long-term on-the-job training	None	\$36,640	\$51,357	653	-55	٧				284	62
275	13-1151.00	13-1151	Training and Development Specialists	Business & Financial Operations Occupations	Bachelor's degree	None	Less than 5 years	\$34,990	\$57,976	1,007	83	٧				3,662	338
276	11-3071.00	11-3071	Transportation, Storage, and Distribution Managers	Management Occupations	High school diploma	None	5 years or more	\$60,350	\$91,577	460	41	٧				1,414	259
277	53-3032.00	53-3032	Truck Drivers, Heavy and Tractor-Trailer	Transportation & Material Moving Occupations	Certificate/ Some college	Short-term on-the-job training	None	\$31,310	\$44,717	8,465	301	٧				12,921	177
278	53-3033.00	53-3033	Truck Drivers, Light or Delivery Services	Transportation & Material Moving Occupations	High school diploma	Short-term on-the-job training	None	\$20,010	\$31,001	4,232	157	٧				6,556	151
279	15-1134.00	15-1134	Web Developers	Computer & Mathematical Occupations	Associate's degree	None		\$36,100	\$63,608	294	23		٧			8,011	277
280	51-4121.00	51-4121	Welders, Cutters, Solderers, and Brazers	Production Occupations	High school diploma	Moderate-term on-the-job training	None	\$29,950	\$40,589	1,972	52	٧				457	96
281	51-4122.00	51-4122	Welding/Soldering/Brazing Machine Setters, O/T	Production Occupations	High school diploma	Moderate-term on-the-job training	None	\$28,710	\$39,383	287	-28		٧			49	21
			·	•	•				Totals	445.474	30.703	175	16	38	52	1.007.096	34.218



Methodology Total	175	16	38	52
Occupations	281	281	281	281
Percent	62.28%	5.69%	13.52%	18.51%

Data across all tables may not be comparable due to differences in reporting periods, data source and data compression and rounding.

*Projections are sourced from State of Ohio's Bureau of Labor Manket Information (LMI).

*The openings and growth numbers for this occupation prepisent an occupational category that includes, by this larger than the specific occupational title listed.

*Typical competency level to enter the occupation, using the US Bureau of Labor Statistic, (BLS) education and training classification system.

*Vage was calculated by multiplying the hourly wage by 2,080 to approximate an annual wage.

*National wage displayed as the state wage data is unavailable.

*Occupations with State Annual Earnings > \$14.10 per hour, Annual Growth in Jobs > the Area Average (36), and/or Total Annual Job Openings > The Area Average (584 jobs) and JobsOhio Industry Cluster In-Demand Occupations, 2nd Tier Methodology for Forecasted Jobs and Critical Occupations for a public assistance need.