

Demand Occupations Training List (DOTL) Framework

June 30, 2021

Framework Overview

Utilizing criteria for projected annual openings, education, and wages, a statewide DOTL was created using the [Long-Term COVID-impacted Occupational Projections \(2018-2028\)](#) from the Illinois Department of Employment Security as source data.



Implementation Timeline

The new DOTL will begin for Program Year (PY) 2021 or July 1, 2021. Those participants currently enrolled in training that is for demand occupations of the previous DOTL will be allowed to complete their currently enrolled programs.

As new data sets are available, an updated DOTL will be generated and the career planning system of record will be updated accordingly. When the DOTL is updated occupations added by LWIA petition and/or DCEO determination will “sunset” and require a renewed petition. Occupations added by petition in the final quarter of the PY will remain on the DOTL for the subsequent PY, and then will be subject to a renewed petition.

Criteria & Tiered List



Projected annual openings equal to at least 0.01% of statewide employment (646 annual openings)	A minimum typical entry education level of High School diploma + moderate OJT and maximum typical entry level of Bachelors Degree + long-term OJT	A median wage of 85% of the Living Wage ¹ for 1 adult & 1 child (85% of \$26.48=\$22.51)
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¹ Living wage data were obtained from the MIT Living Wage calculator. <https://livingwage.mit.edu/>

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Using these thresholds, the list reflects tiers of occupations in the following color scheme, which will inform implementation guidance and program approval processes.



ADVANCED EDUCATION	999	Meet all criteria + minimum Bachelors
MIDDLE SKILLS	999	Meet all criteria, less than Bachelors
GROWTH	999	Meet education and openings criteria, less than minimum median wage
MODERATE DEMAND	999	Meet education and minimum median wage criteria, openings between 400 and statewide minimum (646)
STATEWIDE PRIORITY	999	Address a State, or Federal, priority related to emergency response, funding opportunities, innovative programs or identified initiatives and that may have a defined period of activity
LOCAL PRIORITY	999	Address an Approved Local Petition based on employer needs related to new or increased job openings or wages, or that meet priorities as outlined within Regional or Local Plans
LOW PRIORITY	999	Do not meet education and/or below 400 annual openings; occupations with SOC Code ending in ###-###9 ("All Other") ² (NOT a Demand Occupation)

² These SOC Codes tend to be "catch-all" and LWIAs report that they inhibit the ability to thoughtfully target and evaluate training

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All occupations falling into the *Green* (Advanced Education and Middle Skills) and *Yellow* (Growth and Moderate Demand) tiers will be included on the DOTL, though training for occupations in the *Yellow* tiers will require additional documentation in the applicable IEP or ISS by Career Planners to ensure those occupations are supporting training participants to access and progress along a demonstrable career pathway available in their local area or an area in which the participant is willing to relocate and is intended to be followed by further training in post-secondary education. Occupations in the *Orange* (Statewide and Local Priority) tiers represent those that have been added to address a state or federal priority or through a local petition approved by the Department as explained in the Requests for Non-Demand Occupational Training Petition Process section of this Notice. Since the DOTL is a statewide list, Career Planners should be quite mindful of the true demand for these occupations in their local or regional area as the data may not support this as a viable career option for their participants. As with the Yellow tiers, Career Planners will need to include additional documentation in the applicable IEP or ISS. Additionally, LWIBs should consider data that would support if there is a real demand (need) for training programs in occupations in this tier as they are reviewing training programs for initial and continued eligibility. Occupations falling into the *Red* (Low Priority) tier will not be included in the DOTL and require an LWIA petition or DCEO determination to be added.

Petition Process

If an LWIA or DCEO determine that an occupation should be added to the list based on data and other evidence that is not reflected in the IDES data, they must follow the procedures outlined in the Notice and below:

	LWIB Petition	DCEO Determination
Result	Occupation added as an Orange tiered* occupation to <i>full statewide list</i>	
Justification	<ul style="list-style-type: none"> Evidence of local demand (evidence can include Talent Pipeline Management (TPM) documentation and/or letters from employers, other evidence as appropriate) For occupation with higher education requirements, plan for addressing career pathway pipeline and targeting funds to final years of training Evidence that programs training for this occupation serve a special population under WIOA (particularly returning citizens) 	<ul style="list-style-type: none"> Determination based on State priorities (for example, current grant priorities, Early Childhood Workforce, COVID response, etc.)
Process	<ul style="list-style-type: none"> Form submission to DCEO DCEO staff processes/approves DCEO notifies LWIB within 14 calendar days of petition submittal of outcome DCEO notifies IWIB at subsequent meeting 	<ul style="list-style-type: none"> DCEO staff documents evidence/rationale DCEO notifies IWIB at subsequent meeting

*If a petition to add an occupation to the DOTL is approved, the occupation will be added to the *Orange* tier unless the new data on wages or annual openings elevates the occupation to a *Green* or *Yellow* tier.

Demand Occupations Training List (DOTL) Guide

Demand Code	
Green - Advanced Education	6
Green - Middle Skills	5
Yellow - Growth	4
Yellow - Moderate Demand	3
Orange - Statewide Priority	2
Orange - Local Priority	1
Red - Low Priority	0

Summary By Education and OJT Levels		
Education/ OJT code	Education Level	OJT Level
2	No formal educational credential	Short-term OJT
3	No formal educational credential	Moderate-term OJT
4	No formal educational credential	Long-term OJT
5	High school diploma or equivalent	None
6	High school diploma or equivalent	Short-term OJT
7	High school diploma or equivalent	Moderate-term OJT
8	High school diploma or equivalent	Long-term OJT
9	High school diploma or equivalent	Internship/residency
10	High school diploma or equivalent	Apprenticeship
11	Some college, no degree	None
12	Some college, no degree	Short-term OJT
13	Some college, no degree	Moderate-term OJT
14	Postsecondary nondegree award	None
15	Postsecondary nondegree award	Short-term OJT
16	Postsecondary nondegree award	Moderate-term OJT
17	Postsecondary nondegree award	Long-term OJT
18	Associate's degree	None
19	Associate's degree	Short-term OJT
20	Associate's degree	Moderate-term OJT
21	Associate's degree	Long-term OJT
22	Bachelor's degree	None
23	Bachelor's degree	Short-term OJT
24	Bachelor's degree	Moderate-term OJT
25	Bachelor's degree	Long-term OJT
26	Bachelor's degree	Internship/residency
27	Master's degree	None
28	Master's degree	Internship/residency
29	Doctoral or professional degree	None
30	Doctoral or professional degree	Short-term OJT
31	Doctoral or professional degree	Internship/residency

Demand Occupation Training List

O*NET-SOC 2010 Code	O*NET-SOC 2019 Code	O*NET-SOC 2019 Title	Annual Openings	Education/ OJT code	Median Wage per Hour	Demand Code
111011	111011	Chief Executives	703	22	0.00	4
111021	111021	General and Operations Managers	11398	22	48.26	6
111031	111031	Legislators	354	22	0.00	0
112011	112011	Advertising and Promotions Managers	219	22	53.06	0
112021	112021	Marketing Managers	2007	22	58.28	6
112022	112022	Sales Managers	2362	22	58.91	6
112031	112032	Public Relations Managers	474	22	50.03	3
112031	112033	Fundraising Managers	474	22	50.03	3
113011	113012	Administrative Services Managers	1479	22	43.19	6
113011	113013	Facilities Managers	1479	22	43.19	6
113021	113021	Computer and Information Systems Managers	1500	22	68.46	6
113031	113031	Financial Managers	3914	22	62.42	6
113051	113051	Industrial Production Managers	817	22	47.90	6
113061	113061	Purchasing Managers	378	22	53.83	0
113071	113071	Transportation, Storage, and Distribution Managers	788	5	44.79	1
113111	113111	Compensation and Benefits Managers	94	22	58.15	0
113121	113121	Human Resources Managers	897	22	52.41	6
113131	113131	Training and Development Managers	219	22	51.94	0
119013	119013	Farmers, Ranchers, and Other Agricultural Managers	6087	5	29.61	1
119021	119021	Construction Managers	1398	24	43.59	6
119031	119031	Education and Childcare Administrators, Preschool and	235	22	24.44	0
119032	119032	Education Administrators, Kindergarten through Secondary	939	27	0.00	0
119033	119033	Education Administrators, Postsecondary	742	27	39.64	0
119039	119039	Education Administrators, All Other	160	22	35.95	0
119041	119041	Architectural and Engineering Managers	720	22	64.29	6
119051	119051	Food Service Managers	0	0	0.00	0
119071	119071	Gambling Managers	8	22	0.00	0
119199	119072	Entertainment and Recreation Managers, Except Gambling	#N/A	#N/A	#N/A	0
119081	119081	Lodging Managers	199	5	21.62	0
119111	119111	Medical and Health Services Managers	1265	22	50.61	6
119121	119121	Natural Sciences Managers	180	22	57.77	0
119131	119131	Postmasters and Mail Superintendents	24	7	36.04	0
119141	119141	Property, Real Estate, and Community Association Managers	1127	5	29.73	0
119151	119151	Social and Community Service Managers	460	22	31.46	3
119161	119161	Emergency Management Directors	36	22	30.47	0
119061	119171	Funeral Home Managers	35	18	44.92	0
119199	119179	Personal Service Managers, All Other	#N/A	#N/A	#N/A	0
119199	119199	Managers, All Other	#N/A	#N/A	#N/A	0
131011	131011	Agents and Business Managers of Artists, Performers, and	#N/A	#N/A	#N/A	0
131021	131021	Buyers and Purchasing Agents, Farm Products	1391	22	30.87	6
131022	131022	Wholesale and Retail Buyers, Except Farm Products	#N/A	#N/A	#N/A	0
131023	131023	Purchasing Agents, Except Wholesale, Retail, and Farm	#N/A	#N/A	#N/A	0
131031	131031	Claims Adjusters, Examiners, and Investigators	998	8	30.18	5
131032	131032	Insurance Appraisers, Auto Damage	36	16	30.02	0
131041	131041	Compliance Officers	841	24	35.30	6
131051	131051	Cost Estimators	578	24	32.04	3
131071	131071	Human Resources Specialists	2558	22	28.79	6
131074	131074	Farm Labor Contractors	#N/A	#N/A	#N/A	0
131075	131075	Labor Relations Specialists	459	22	30.12	3
131081	131081	Logisticians	831	22	30.90	6
119199	131082	Project Management Specialists	#N/A	#N/A	#N/A	0
131111	131111	Management Analysts	5151	22	42.45	6
131121	131121	Meeting, Convention, and Event Planners	604	22	23.49	3
131131	131131	Fundraisers	455	22	27.03	3
131141	131141	Compensation, Benefits, and Job Analysis Specialists	358	22	31.27	0
131151	131151	Training and Development Specialists	1158	22	31.10	6
131161	131161	Market Research Analysts and Marketing Specialists	3931	22	29.15	6

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131199	131199	Business Operations Specialists, All Other	5011	22	31.83	0
132011	132011	Accountants and Auditors	5705	22	33.89	6
132021	132022	Appraisers of Personal and Business Property	242	25	24.70	0
132021	132023	Appraisers and Assessors of Real Estate	242	25	24.70	0
132031	132031	Budget Analysts	103	22	35.81	0
132041	132041	Credit Analysts	310	22	32.51	0
132051	132051	Financial and Investment Analysts	1342	22	38.13	6
132052	132052	Personal Financial Advisors	898	25	48.66	6
132053	132053	Insurance Underwriters	451	24	32.93	3
132051	132054	Financial Risk Specialists	1342	22	38.13	6
132061	132061	Financial Examiners	172	25	44.47	0
132071	132071	Credit Counselors	149	24	21.56	0
132071	132072	Loan Officers	149	24	21.56	0
132081	132081	Tax Examiners and Collectors, and Revenue Agents	#N/A	#N/A	#N/A	0
132082	132082	Tax Preparers	#N/A	#N/A	#N/A	0
132099	132099	Financial Specialists, All Other	431	24	39.47	0
151121	151211	Computer Systems Analysts	2152	22	41.67	6
151122	151212	Information Security Analysts	378	22	46.13	1
151111	151221	Computer and Information Research Scientists	50	27	55.43	0
151152	151231	Computer Network Support Specialists	852	18	29.79	5
151151	151232	Computer User Support Specialists	2246	10	24.27	5
151143	151241	Computer Network Architects	355	22	56.06	1
151141	151242	Database Administrators	268	22	46.23	1
151141	151243	Database Architects	268	22	46.23	1
151142	151244	Network and Computer Systems Administrators	794	22	39.87	6
151131	151251	Computer Programmers	596	22	42.20	3
151132	151252	Software Developers	2851	22	45.87	6
151132	151253	Software Quality Assurance Analysts and Testers	2851	22	45.87	6
151134	151254	Web Developers	499	18	33.85	3
151134	151255	Web and Digital Interface Designers	499	18	33.85	3
151199	151299	Computer Occupations, All Other	1287	22	0.00	1
152011	152011	Actuaries	164	25	49.36	0
152021	152021	Mathematicians	5	27	54.18	0
152031	152031	Operations Research Analysts	477	22	46.59	3
152041	152041	Statisticians	213	27	41.65	0
152099	152051	Data Scientists	#N/A	#N/A	#N/A	0
152091	152099	Mathematical Science Occupations, All Other	#N/A	#N/A	#N/A	0
171011	171011	Architects, Except Landscape and Naval	529	26	38.06	0
171012	171012	Landscape Architects	33	26	35.72	0
171021	171021	Cartographers and Photogrammetrists	11	22	40.37	0
171022	171022	Surveyors	101	26	33.89	0
172011	172011	Aerospace Engineers	65	22	54.13	0
172021	172021	Agricultural Engineers	6	22	43.25	0
172031	172031	Bioengineers and Biomedical Engineers	40	22	49.29	0
172041	172041	Chemical Engineers	62	22	45.27	0
172051	172051	Civil Engineers	916	22	41.93	6
172061	172061	Computer Hardware Engineers	75	22	50.78	0
172071	172071	Electrical Engineers	349	22	46.73	0
172072	172072	Electronics Engineers, Except Computer	179	22	47.38	0
172081	172081	Environmental Engineers	120	22	42.20	0
172111	172111	Health and Safety Engineers, Except Mining Safety	40	22	42.32	0
172112	172112	Industrial Engineers	801	22	42.05	6
172121	172121	Marine Engineers and Naval Architects	#N/A	#N/A	#N/A	0
172131	172131	Materials Engineers	52	22	42.47	0
172141	172141	Mechanical Engineers	1256	22	43.74	6
172151	172151	Mining and Geological Engineers, Including Mining Safety	7	22	48.11	0
172161	172161	Nuclear Engineers	37	22	58.67	0

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172171	172171	Petroleum Engineers	#N/A	#N/A	#N/A	0
172199	172199	Engineers, All Other	290	22	42.57	0
173011	173011	Architectural and Civil Drafters	228	18	30.20	0
173012	173012	Electrical and Electronics Drafters	65	18	33.29	0
173013	173013	Mechanical Drafters	256	18	27.21	0
173019	173019	Drafters, All Other	#N/A	#N/A	#N/A	0
173021	173021	Aerospace Engineering and Operations Technologists and	#N/A	#N/A	#N/A	0
173022	173022	Civil Engineering Technologists and Technicians	172	18	30.33	0
173023	173023	Electrical and Electronic Engineering Technologists and	318	18	32.54	1
173024	173024	Electro-Mechanical and Mechatronics Technologists and	34	18	34.32	0
173025	173025	Environmental Engineering Technologists and Technicians	53	18	20.75	0
173026	173026	Industrial Engineering Technologists and Technicians	178	18	27.37	0
173027	173027	Mechanical Engineering Technologists and Technicians	215	18	27.99	0
173029	173028	Calibration Technologists and Technicians	643	18	0.00	1
173029	173029	Engineering Technologists and Technicians, Except Drafters,	643	18	0.00	1
173031	173031	Surveying and Mapping Technicians	119	7	20.39	0
191011	191011	Animal Scientists	10	22	27.93	0
191012	191012	Food Scientists and Technologists	94	22	43.67	0
191013	191013	Soil and Plant Scientists	45	22	26.57	0
191021	191021	Biochemists and Biophysicists	64	29	47.68	0
191022	191022	Microbiologists	88	22	28.92	0
191023	191023	Zoologists and Wildlife Biologists	28	22	26.88	0
191029	191029	Biological Scientists, All Other	52	22	38.98	0
191031	191031	Conservation Scientists	95	22	29.43	0
191032	191032	Foresters	18	22	35.12	0
191041	191041	Epidemiologists	20	27	36.99	0
191042	191042	Medical Scientists, Except Epidemiologists	342	29	37.20	0
191099	191099	Life Scientists, All Other	13	22	37.97	0
192011	192011	Astronomers	#N/A	#N/A	#N/A	0
192012	192012	Physicists	72	29	54.11	0
192021	192021	Atmospheric and Space Scientists	#N/A	#N/A	#N/A	0
192031	192031	Chemists	273	22	33.15	0
192032	192032	Materials Scientists	30	22	48.05	0
192041	192041	Environmental Scientists and Specialists, Including Health	220	22	37.98	0
192042	192042	Geoscientists, Except Hydrologists and Geographers	42	22	33.29	0
192043	192043	Hydrologists	7	22	43.51	0
192099	192099	Physical Scientists, All Other	47	22	49.43	0
193011	193011	Economists	36	27	49.38	0
193022	193022	Survey Researchers	131	27	30.29	0
193032	193032	Industrial-Organizational Psychologists	#N/A	#N/A	#N/A	0
193031	193033	Clinical and Counseling Psychologists	506	31	32.93	0
193031	193034	School Psychologists	506	31	32.93	0
193039	193039	Psychologists, All Other	#N/A	#N/A	#N/A	0
193041	193041	Sociologists	12	27	38.55	0
193051	193051	Urban and Regional Planners	81	27	35.10	0
193091	193091	Anthropologists and Archeologists	14	27	28.81	0
193092	193092	Geographers	3	27	39.02	0
193093	193093	Historians	8	27	31.58	0
193094	193094	Political Scientists	8	27	35.05	0
193099	193099	Social Scientists and Related Workers, All Other	76	22	36.64	0
194011	194012	Agricultural Technicians	76	20	0.00	2
194011	194013	Food Science Technicians	76	20	0.00	2
194021	194021	Biological Technicians	209	22	26.14	0
194031	194031	Chemical Technicians	267	20	24.85	2
194091	194042	Environmental Science and Protection Technicians, Including	132	18	0.00	0
194041	194043	Geological Technicians, Except Hydrologic Technicians	#N/A	#N/A	#N/A	0
194041	194044	Hydrologic Technicians	#N/A	#N/A	#N/A	0

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194051	194051	Nuclear Technicians	111	20	34.52	0
194061	194061	Social Science Research Assistants	146	22	25.31	0
194093	194071	Forest and Conservation Technicians	72	18	0.00	0
194092	194092	Forensic Science Technicians	#N/A	#N/A	#N/A	0
194099	194099	Life, Physical, and Social Science Technicians, All Other	432	18	24.07	2
299011	195011	Occupational Health and Safety Specialists	148	22	0.00	0
299012	195012	Occupational Health and Safety Technicians	45	7	0.00	0
211011	211011	Substance Abuse and Behavioral Disorder Counselors	#N/A	#N/A	#N/A	2
211012	211012	Educational, Guidance, and Career Counselors and Advisors	1465	27	24.78	0
211013	211013	Marriage and Family Therapists	43	28	26.74	0
211014	211014	Mental Health Counselors	#N/A	#N/A	#N/A	0
211015	211015	Rehabilitation Counselors	458	27	18.02	0
211019	211019	Counselors, All Other	218	27	17.60	0
211021	211021	Child, Family, and School Social Workers	1363	22	25.41	6
211022	211022	Healthcare Social Workers	621	28	25.78	0
211023	211023	Mental Health and Substance Abuse Social Workers	393	28	21.28	2
211029	211029	Social Workers, All Other	540	22	33.16	0
211091	211091	Health Education Specialists	247	22	26.45	0
211092	211092	Probation Officers and Correctional Treatment Specialists	260	23	33.35	1
211093	211093	Social and Human Service Assistants	1686	6	17.23	0
211094	211094	Community Health Workers	270	6	19.87	2
211099	211099	Community and Social Service Specialists, All Other	376	22	17.65	0
212011	212011	Clergy	1803	24	22.21	4
212021	212021	Directors, Religious Activities and Education	913	22	18.49	4
212099	212099	Religious Workers, All Other	409	22	13.85	0
231011	231011	Lawyers	1892	29	62.27	0
231012	231012	Judicial Law Clerks	#N/A	#N/A	#N/A	0
231021	231021	Administrative Law Judges, Adjudicators, and Hearing	27	30	38.97	0
231022	231022	Arbitrators, Mediators, and Conciliators	19	29	34.09	0
231023	231023	Judges, Magistrate Judges, and Magistrates	#N/A	#N/A	#N/A	0
232011	232011	Paralegals and Legal Assistants	1634	18	27.62	5
232093	232093	Title Examiners, Abstractors, and Searchers	107	7	23.16	0
232099	232099	Legal Support Workers, All Other	71	18	26.77	0
251011	251011	Business Teachers, Postsecondary	421	29	42.07	0
251021	251021	Computer Science Teachers, Postsecondary	126	29	39.41	0
251022	251022	Mathematical Science Teachers, Postsecondary	210	29	29.28	0
251031	251031	Architecture Teachers, Postsecondary	15	29	49.36	0
251032	251032	Engineering Teachers, Postsecondary	133	29	45.94	0
251041	251041	Agricultural Sciences Teachers, Postsecondary	34	29	0.00	0
251042	251042	Biological Science Teachers, Postsecondary	248	29	42.38	0
251043	251043	Forestry and Conservation Science Teachers, Postsecondary	#N/A	#N/A	#N/A	0
251051	251051	Atmospheric, Earth, Marine, and Space Sciences Teachers,	27	29	34.83	0
251052	251052	Chemistry Teachers, Postsecondary	93	29	35.55	0
251053	251053	Environmental Science Teachers, Postsecondary	12	29	34.69	0
251054	251054	Physics Teachers, Postsecondary	59	29	39.25	0
251061	251061	Anthropology and Archeology Teachers, Postsecondary	27	29	35.00	0
251062	251062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	41	29	38.84	0
251063	251063	Economics Teachers, Postsecondary	49	29	53.62	0
251064	251064	Geography Teachers, Postsecondary	13	29	36.33	0
251065	251065	Political Science Teachers, Postsecondary	50	29	36.05	0
251066	251066	Psychology Teachers, Postsecondary	150	29	33.03	0
251067	251067	Sociology Teachers, Postsecondary	55	29	28.25	0
251069	251069	Social Sciences Teachers, Postsecondary, All Other	109	29	38.57	0
251071	251071	Health Specialties Teachers, Postsecondary	1180	29	43.45	0
251072	251072	Nursing Instructors and Teachers, Postsecondary	195	29	33.35	0
251081	251081	Education Teachers, Postsecondary	428	29	32.84	0
251082	251082	Library Science Teachers, Postsecondary	36	29	33.86	0

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251111	251111	Criminal Justice and Law Enforcement Teachers,	57	29	32.78	0
251112	251112	Law Teachers, Postsecondary	93	29	60.96	0
251113	251113	Social Work Teachers, Postsecondary	77	29	29.70	0
251121	251121	Art, Drama, and Music Teachers, Postsecondary	358	27	29.60	0
251122	251122	Communications Teachers, Postsecondary	164	29	28.84	0
251123	251123	English Language and Literature Teachers, Postsecondary	267	29	27.24	0
251124	251124	Foreign Language and Literature Teachers, Postsecondary	81	29	28.56	0
251125	251125	History Teachers, Postsecondary	72	29	31.21	0
251126	251126	Philosophy and Religion Teachers, Postsecondary	91	29	29.24	0
251192	251192	Family and Consumer Sciences Teachers, Postsecondary	4	22	35.32	0
251193	251193	Recreation and Fitness Studies Teachers, Postsecondary	52	29	31.28	0
251194	251194	Career/Technical Education Teachers, Postsecondary	390	22	22.79	0
251199	251199	Postsecondary Teachers, All Other	#N/A	#N/A	#N/A	0
252011	252011	Preschool Teachers, Except Special Education	2692	18	14.29	4
252012	252012	Kindergarten Teachers, Except Special Education	445	22	19.64	2
252021	252021	Elementary School Teachers, Except Special Education	4488	22	21.08	4
252022	252022	Middle School Teachers, Except Special and	1554	22	21.73	4
252023	252023	Career/Technical Education Teachers, Middle School	16	22	0.00	2
252031	252031	Secondary School Teachers, Except Special and	2880	22	21.55	4
252032	252032	Career/Technical Education Teachers, Secondary School	128	22	22.51	2
252051	252051	Special Education Teachers, Preschool	69	22	18.65	2
252052	252055	Special Education Teachers, Kindergarten	673	22	20.87	4
252052	252056	Special Education Teachers, Elementary School	673	22	20.87	4
252053	252057	Special Education Teachers, Middle School	240	22	23.10	2
252054	252058	Special Education Teachers, Secondary School	590	22	18.82	2
252059	252059	Special Education Teachers, All Other	66	22	25.55	2
253011	253011	Adult Basic Education, Adult Secondary Education, and	239	22	24.34	0
253021	253021	Self-Enrichment Teachers	2001	5	17.05	0
253099	253031	Substitute Teachers, Short-Term	1441	22	13.20	2
253099	253041	Tutors	1441	22	13.20	2
253099	253099	Teachers and Instructors, All Other	1441	22	13.20	2
254011	254011	Archivists	21	27	30.22	0
254012	254012	Curators	40	27	25.97	0
254013	254013	Museum Technicians and Conservators	105	22	22.08	0
254021	254022	Librarians and Media Collections Specialists	619	27	0.00	0
254031	254031	Library Technicians	753	14	15.76	4
259021	259021	Farm and Home Management Educators	19	27	18.01	0
259031	259031	Instructional Coordinators	475	27	31.06	0
259041	259042	Teaching Assistants, Preschool, Elementary, Middle, and	6236	10	0.00	4
259041	259043	Teaching Assistants, Special Education	6236	10	0.00	4
251191	259044	Teaching Assistants, Postsecondary	277	22	0.00	0
259041	259049	Teaching Assistants, All Other	6236	10	0.00	4
259099	259099	Educational Instruction and Library Workers, All Other	54	22	19.06	0
271011	271011	Art Directors	446	22	43.78	3
271012	271012	Craft Artists	23	4	19.86	0
271013	271013	Fine Artists, Including Painters, Sculptors, and Illustrators	55	25	20.43	0
271014	271014	Special Effects Artists and Animators	173	22	29.74	0
271019	271019	Artists and Related Workers, All Other	#N/A	#N/A	#N/A	0
271021	271021	Commercial and Industrial Designers	176	22	30.18	0
271022	271022	Fashion Designers	#N/A	#N/A	#N/A	0
271023	271023	Floral Designers	175	7	12.05	0
271024	271024	Graphic Designers	1434	22	26.10	6
271025	271025	Interior Designers	263	22	24.17	0
271026	271026	Merchandise Displayers and Window Trimmers	617	6	13.74	0
271027	271027	Set and Exhibit Designers	42	22	22.92	0
271029	271029	Designers, All Other	30	22	28.66	0
272011	272011	Actors	#N/A	#N/A	#N/A	0

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272012	272012	Producers and Directors	357	22	29.37	0
272021	272021	Athletes and Sports Competitors	#N/A	#N/A	#N/A	0
272022	272022	Coaches and Scouts	1856	22	0.00	4
272023	272023	Umpires, Referees, and Other Sports Officials	220	7	0.00	0
272031	272031	Dancers	#N/A	#N/A	#N/A	0
272032	272032	Choreographers	#N/A	#N/A	#N/A	0
272041	272041	Music Directors and Composers	255	22	18.18	0
272042	272042	Musicians and Singers	678	4	32.29	0
272099	272091	Disc Jockeys, Except Radio	23	2	0.00	0
272099	272099	Entertainers and Performers, Sports and Related Workers, All	23	2	0.00	0
273011	273011	Broadcast Announcers and Radio Disc Jockeys	122	22	15.95	0
273021	273023	News Analysts, Reporters, and Journalists	35	22	0.00	0
273031	273031	Public Relations Specialists	1135	22	27.43	6
273041	273041	Editors	435	22	27.69	3
273042	273042	Technical Writers	154	23	33.01	0
273043	273043	Writers and Authors	425	25	28.98	3
273091	273091	Interpreters and Translators	277	22	20.73	0
232091	273092	Court Reporters and Simultaneous Captioners	71	15	0.00	0
273012	273099	Media and Communication Workers, All Other	60	6	0.00	0
274011	274011	Audio and Video Technicians	364	15	19.03	0
274012	274012	Broadcast Technicians	148	19	16.24	0
274014	274014	Sound Engineering Technicians	26	15	26.89	0
274099	274015	Lighting Technicians	13	6	0.00	0
274021	274021	Photographers	403	8	16.31	0
274031	274031	Camera Operators, Television, Video, and Film	69	22	22.73	0
274032	274032	Film and Video Editors	43	22	30.69	0
274099	274099	Media and Communication Equipment Workers, All Other	13	6	0.00	0
291011	291011	Chiropractors	54	29	34.49	0
291021	291021	Dentists, General	171	29	82.11	0
291022	291022	Oral and Maxillofacial Surgeons	#N/A	#N/A	#N/A	0
291023	291023	Orthodontists	16	31	74.26	0
291024	291024	Prosthodontists	#N/A	#N/A	#N/A	0
291029	291029	Dentists, All Other Specialists	4	29	58.18	0
291031	291031	Dietitians and Nutritionists	178	26	28.50	0
291041	291041	Optometrists	80	29	55.05	0
291051	291051	Pharmacists	460	29	62.17	0
291071	291071	Physician Assistants	363	27	49.82	0
291081	291081	Podiatrists	34	31	61.32	0
291122	291122	Occupational Therapists	344	27	40.59	0
291123	291123	Physical Therapists	601	29	43.97	0
291124	291124	Radiation Therapists	31	18	39.24	0
291125	291125	Recreational Therapists	45	22	22.13	0
291126	291126	Respiratory Therapists	291	18	28.43	1
291127	291127	Speech-Language Pathologists	525	28	36.54	0
291128	291128	Exercise Physiologists	44	22	24.75	0
291129	291129	Therapists, All Other	49	22	26.38	0
291131	291131	Veterinarians	141	29	46.03	0
291141	291141	Registered Nurses	9289	22	34.43	6
291151	291151	Nurse Anesthetists	135	27	92.43	0
291161	291161	Nurse Midwives	34	27	49.37	0
291171	291171	Nurse Practitioners	757	27	51.64	0
291181	291181	Audiologists	25	29	36.64	0
291061	291211	Anesthesiologists	33	31	0.00	0
291069	291212	Cardiologists	263	31	0.00	0
291069	291213	Dermatologists	263	31	0.00	0
291069	291214	Emergency Medicine Physicians	263	31	0.00	0
291062	291215	Family Medicine Physicians	220	31	0.00	0

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291063	291216	General Internal Medicine Physicians	40	31	0.00	0
291069	291217	Neurologists	263	31	0.00	0
291064	291218	Obstetricians and Gynecologists	12	31	0.00	0
291065	291221	Pediatricians, General	15	31	0.00	0
291069	291222	Physicians, Pathologists	263	31	0.00	0
291066	291223	Psychiatrists	36	31	0.00	0
291069	291224	Radiologists	263	31	0.00	0
291069	291229	Physicians, All Other	263	31	0.00	0
291069	291241	Ophthalmologists, Except Pediatric	263	31	0.00	0
291067	291242	Orthopedic Surgeons, Except Pediatric	25	31	0.00	0
291067	291243	Pediatric Surgeons	25	31	0.00	0
291067	291249	Surgeons, All Other	25	31	0.00	0
291199	291291	Acupuncturists	156	27	0.00	0
292021	291292	Dental Hygienists	683	18	23.12	5
291199	291299	Healthcare Diagnosing or Treating Practitioners, All Other	156	27	0.00	0
292011	292011	Medical and Clinical Laboratory Technologists	#N/A	#N/A	#N/A	1
292012	292012	Medical and Clinical Laboratory Technicians	0	0	0.00	1
292031	292031	Cardiovascular Technologists and Technicians	129	18	23.30	1
292032	292032	Diagnostic Medical Sonographers	194	18	36.54	1
292033	292033	Nuclear Medicine Technologists	37	18	38.92	0
292034	292034	Radiologic Technologists and Technicians	401	18	29.67	3
292035	292035	Magnetic Resonance Imaging Technologists	109	18	34.91	0
292099	292036	Medical Dosimetrists	419	14	0.00	1
292041	292042	Emergency Medical Technicians	799	14	14.54	4
292041	292043	Paramedics	799	14	14.54	4
292051	292051	Dietetic Technicians	253	18	11.72	0
292052	292052	Pharmacy Technicians	1772	7	15.44	4
292053	292053	Psychiatric Technicians	337	15	19.60	0
292055	292055	Surgical Technologists	258	14	22.65	1
292056	292056	Veterinary Technologists and Technicians	371	18	17.18	1
292057	292057	Ophthalmic Medical Technicians	150	14	17.54	0
292061	292061	Licensed Practical and Licensed Vocational Nurses	1518	14	25.11	5
292071	292072	Medical Records Specialists	529	14	18.93	1
292081	292081	Opticians, Dispensing	228	8	16.32	0
292091	292091	Orthotists and Prosthetists	45	28	36.11	0
292092	292092	Hearing Aid Specialists	22	7	18.90	0
292054	292099	Health Technologists and Technicians, All Other	419	14	0.00	1
292071	299021	Health Information Technologists and Medical Registrars	529	14	18.93	1
299091	299091	Athletic Trainers	114	22	0.00	0
299092	299092	Genetic Counselors	19	27	38.11	0
292099	299093	Surgical Assistants	419	14	0.00	1
299099	299099	Healthcare Practitioners and Technical Workers, All Other	54	14	0.00	0
311011	311121	Home Health Aides	4560	6	0.00	0
399021	311122	Personal Care Aides	9072	6	0.00	0
311014	311131	Nursing Assistants	6942	14	11.82	4
311015	311132	Orderlies	317	6	0.00	0
311013	311133	Psychiatric Aides	211	6	0.00	0
312011	312011	Occupational Therapy Assistants	297	18	30.53	1
312012	312012	Occupational Therapy Aides	339	6	9.60	0
312021	312021	Physical Therapist Assistants	650	18	28.78	5
312022	312022	Physical Therapist Aides	172	6	11.71	0
319011	319011	Massage Therapists	965	14	22.73	5
319091	319091	Dental Assistants	1508	14	19.02	4
319092	319092	Medical Assistants	2848	14	16.93	4
319093	319093	Medical Equipment Preparers	293	7	18.44	0
319094	319094	Medical Transcriptionists	261	14	14.81	0
319095	319095	Pharmacy Aides	49	6	13.47	1

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319096	319096	Veterinary Assistants and Laboratory Animal Caretakers	458	6	13.07	0
319097	319097	Phlebotomists	648	14	16.71	4
319099	319099	Healthcare Support Workers, All Other	171	5	21.90	0
331011	331011	First-Line Supervisors of Correctional Officers	136	5	36.27	0
331012	331012	First-Line Supervisors of Police and Detectives	403	7	54.28	3
331021	331021	First-Line Supervisors of Firefighting and Prevention	238	16	46.95	0
331099	331091	First-Line Supervisors of Security Workers	341	5	0.00	0
331099	331099	First-Line Supervisors of Protective Service Workers, All	341	5	0.00	0
332011	332011	Firefighters	1264	17	25.54	5
332021	332021	Fire Inspectors and Investigators	77	16	30.39	0
332022	332022	Forest Fire Inspectors and Prevention Specialists	#N/A	#N/A	#N/A	0
333011	333011	Bailiffs	136	7	33.31	0
333012	333012	Correctional Officers and Jailers	1216	7	28.59	5
333021	333021	Detectives and Criminal Investigators	196	7	39.86	0
333031	333031	Fish and Game Wardens	9	7	34.80	0
333041	333041	Parking Enforcement Workers	9	6	23.57	0
333051	333051	Police and Sheriff's Patrol Officers	2319	7	40.90	5
333052	333052	Transit and Railroad Police	23	7	34.77	0
339011	339011	Animal Control Workers	59	7	16.64	0
339021	339021	Private Detectives and Investigators	86	7	27.41	0
339031	339031	Gambling Surveillance Officers and Gambling Investigators	33	7	35.64	0
339032	339032	Security Guards	6306	6	14.74	0
339091	339091	Crossing Guards and Flaggers	606	2	15.13	0
339092	339092	Lifeguards, Ski Patrol, and Other Recreational Protective	1930	2	10.43	0
339093	339093	Transportation Security Screeners	167	6	20.30	0
339099	339094	School Bus Monitors	1502	6	0.00	0
339099	339099	Protective Service Workers, All Other	1502	6	0.00	0
351011	351011	Chefs and Head Cooks	691	5	25.59	1
351012	351012	First-Line Supervisors of Food Preparation and Serving	4584	5	14.10	0
352011	352011	Cooks, Fast Food	2131	2	9.63	0
352012	352012	Cooks, Institution and Cafeteria	2770	2	13.14	0
352013	352013	Cooks, Private Household	#N/A	#N/A	#N/A	0
352014	352014	Cooks, Restaurant	8109	3	13.77	0
352015	352015	Cooks, Short Order	793	2	12.00	0
352019	352019	Cooks, All Other	#N/A	#N/A	#N/A	0
352021	352021	Food Preparation Workers	5849	2	12.39	0
353011	353011	Bartenders	5352	2	9.49	0
353021	353023	Fast Food and Counter Workers	28390	2	0.00	0
353031	353031	Waiters and Waitresses	16113	2	9.36	0
353041	353041	Food Servers, Nonrestaurant	2290	2	11.59	0
359011	359011	Dining Room and Cafeteria Attendants and Bartender	4020	2	9.63	0
359021	359021	Dishwashers	3043	2	11.61	0
359031	359031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	3379	2	11.08	0
359099	359099	Food Preparation and Serving Related Workers, All Other	74	2	12.66	0
371011	371011	First-Line Supervisors of Housekeeping and Janitorial	742	5	21.17	0
371012	371012	First-Line Supervisors of Landscaping, Lawn Service, and	673	5	22.85	0
372011	372011	Janitors and Cleaners, Except Maids and Housekeeping	12247	2	13.79	0
372012	372012	Maids and Housekeeping Cleaners	5714	2	12.12	0
372019	372019	Building Cleaning Workers, All Other	#N/A	#N/A	#N/A	0
372021	372021	Pest Control Workers	#N/A	#N/A	#N/A	0
373011	373011	Landscaping and Groundskeeping Workers	5570	2	15.26	0
373012	373012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	260	7	18.44	0
373013	373013	Tree Trimmers and Pruners	64	6	19.83	0
373019	373019	Grounds Maintenance Workers, All Other	22	2	21.77	0
391011	391013	First-Line Supervisors of Gambling Services Workers	#N/A	#N/A	#N/A	0
391021	391014	First-Line Supervisors of Entertainment and Recreation	696	5	0.00	0
391021	391022	First-Line Supervisors of Personal Service Workers	696	5	0.00	0

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392011	392011	Animal Trainers	116	7	14.86	0
392021	392021	Animal Caretakers	2056	6	11.35	0
393011	393011	Gambling Dealers	208	6	9.31	0
393012	393012	Gambling and Sports Book Writers and Runners	#N/A	#N/A	#N/A	0
393019	393019	Gambling Service Workers, All Other	34	6	11.96	0
393021	393021	Motion Picture Projectionists	40	2	12.67	0
393031	393031	Ushers, Lobby Attendants, and Ticket Takers	1335	2	10.51	0
393091	393091	Amusement and Recreation Attendants	1946	2	10.58	0
393092	393092	Costume Attendants	#N/A	#N/A	#N/A	0
393093	393093	Locker Room, Coatroom, and Dressing Room Attendants	166	6	11.14	0
393099	393099	Entertainment Attendants and Related Workers, All Other	60	6	0.00	0
394011	394011	Embalmers	9	21	17.17	0
399099	394012	Crematory Operators	388	6	0.00	0
394021	394021	Funeral Attendants	150	6	13.44	0
394031	394031	Morticians, Undertakers, and Funeral Arrangers	167	21	27.97	0
395011	395011	Barbers	#N/A	#N/A	#N/A	0
395012	395012	Hairdressers, Hairstylists, and Cosmetologists	3153	14	13.00	4
395091	395091	Makeup Artists, Theatrical and Performance	#N/A	#N/A	#N/A	0
395092	395092	Manicurists and Pedicurists	720	14	10.88	4
395093	395093	Shampooers	126	2	10.19	0
395094	395094	Skincare Specialists	303	14	15.75	0
396011	396011	Baggage Porters and Bellhops	326	6	11.89	0
396012	396012	Concierges	164	7	15.40	0
397011	397011	Tour Guides and Escorts	#N/A	#N/A	#N/A	0
397012	397012	Travel Guides	#N/A	#N/A	#N/A	0
399011	399011	Childcare Workers	4208	6	11.16	0
399031	399031	Exercise Trainers and Group Fitness Instructors	3410	6	21.20	0
399032	399032	Recreation Workers	3841	6	11.48	0
399041	399041	Residential Advisors	424	6	14.20	0
399099	399099	Personal Care and Service Workers, All Other	388	6	0.00	0
411011	411011	First-Line Supervisors of Retail Sales Workers	4918	5	18.74	0
411012	411012	First-Line Supervisors of Non-Retail Sales Workers	803	5	34.04	0
412011	412011	Cashiers	25298	2	11.18	0
412012	412012	Gambling Change Persons and Booth Cashiers	78	2	11.58	0
412021	412021	Counter and Rental Clerks	1411	2	11.79	0
412022	412022	Parts Salespersons	1147	3	16.13	0
412031	412031	Retail Salespersons	24148	2	12.00	0
413011	413011	Advertising Sales Agents	1209	7	27.40	5
413021	413021	Insurance Sales Agents	5168	7	25.44	5
413031	413031	Securities, Commodities, and Financial Services Sales Agents	2214	24	30.97	6
413041	413041	Travel Agents	512	7	21.29	0
413099	413091	Sales Representatives of Services, Except Advertising,	6426	7	27.22	0
414011	414011	Sales Representatives, Wholesale and Manufacturing,	1514	24	39.74	6
414012	414012	Sales Representatives, Wholesale and Manufacturing, Except	7681	7	28.19	5
419011	419011	Demonstrators and Product Promoters	399	2	13.71	0
419012	419012	Models	#N/A	#N/A	#N/A	0
419021	419021	Real Estate Brokers	348	5	14.36	0
419022	419022	Real Estate Sales Agents	787	7	14.55	4
419031	419031	Sales Engineers	196	24	41.37	0
419041	419041	Telemarketers	618	2	13.07	0
419091	419091	Door-to-Door Sales Workers, News and Street Vendors, and	#N/A	#N/A	#N/A	0
419099	419099	Sales and Related Workers, All Other	314	5	12.69	0
431011	431011	First-Line Supervisors of Office and Administrative Support	4114	5	28.30	1
432011	432011	Switchboard Operators, Including Answering Service	235	6	15.49	0
432021	432021	Telephone Operators	17	6	16.29	0
274013	432099	Communications Equipment Operators, All Other	6	15	0.00	0
433011	433011	Bill and Account Collectors	948	7	18.39	4

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433021	433021	Billing and Posting Clerks	1867	7	19.70	4
433031	433031	Bookkeeping, Accounting, and Auditing Clerks	5795	12	20.17	4
433041	433041	Gambling Cage Workers	32	6	13.59	0
433051	433051	Payroll and Timekeeping Clerks	430	7	24.18	3
433061	433061	Procurement Clerks	229	7	21.17	0
433071	433071	Tellers	1839	6	15.14	0
433099	433099	Financial Clerks, All Other	87	6	21.72	0
434011	434011	Brokerage Clerks	284	7	26.29	0
434021	434021	Correspondence Clerks	20	6	17.93	0
434031	434031	Court, Municipal, and License Clerks	579	7	19.75	0
434041	434041	Credit Authorizers, Checkers, and Clerks	43	7	20.31	0
434051	434051	Customer Service Representatives	15099	6	17.41	0
434061	434061	Eligibility Interviewers, Government Programs	281	7	24.98	0
434071	434071	File Clerks	345	6	17.98	0
434081	434081	Hotel, Motel, and Resort Desk Clerks	1255	6	11.73	0
434111	434111	Interviewers, Except Eligibility and Loan	632	6	17.36	0
434121	434121	Library Assistants, Clerical	835	6	11.80	0
434131	434131	Loan Interviewers and Clerks	943	6	19.51	0
434141	434141	New Accounts Clerks	277	7	17.26	0
434151	434151	Order Clerks	510	6	15.78	0
434161	434161	Human Resources Assistants, Except Payroll and	310	18	19.49	0
434171	434171	Receptionists and Information Clerks	5334	6	14.47	0
434181	434181	Reservation and Transportation Ticket Agents and Travel	601	6	20.06	0
434199	434199	Information and Record Clerks, All Other	238	6	21.48	0
435011	435011	Cargo and Freight Agents	434	6	22.94	0
435021	435021	Couriers and Messengers	250	6	13.64	0
435031	435031	Public Safety Telecommunicators	359	7	24.86	0
435032	435032	Dispatchers, Except Police, Fire, and Ambulance	627	7	22.21	0
435041	435041	Meter Readers, Utilities	71	6	25.68	0
435051	435051	Postal Service Clerks	181	6	23.24	0
435052	435052	Postal Service Mail Carriers	895	6	25.98	0
435053	435053	Postal Service Mail Sorters, Processors, and Processing	335	6	28.91	0
435061	435061	Production, Planning, and Expediting Clerks	1691	7	23.01	5
435071	435071	Shipping, Receiving, and Inventory Clerks	3161	6	16.90	0
435111	435111	Weighers, Measurers, Checkers, and Samplers,	221	6	17.21	0
436011	436011	Executive Secretaries and Executive Administrative	2393	5	28.18	1
436012	436012	Legal Secretaries and Administrative Assistants	590	7	23.85	3
436013	436013	Medical Secretaries and Administrative Assistants	1913	7	17.49	4
436014	436014	Secretaries and Administrative Assistants, Except Legal,	6593	6	18.01	0
439021	439021	Data Entry Keyers	596	6	17.39	0
439022	439022	Word Processors and Typists	18	6	20.54	0
439031	439031	Desktop Publishers	81	19	19.04	0
439041	439041	Insurance Claims and Policy Processing Clerks	1047	7	19.94	4
439051	439051	Mail Clerks and Mail Machine Operators, Except Postal	659	6	13.90	0
439061	439061	Office Clerks, General	18312	6	16.94	0
439071	439071	Office Machine Operators, Except Computer	110	6	17.28	0
439081	439081	Proofreaders and Copy Markers	65	22	22.83	0
439111	439111	Statistical Assistants	86	22	24.59	0
439199	439199	Office and Administrative Support Workers, All Other	762	6	18.71	0
451011	451011	First-Line Supervisors of Farming, Fishing, and Forestry	92	5	23.43	0
452011	452011	Agricultural Inspectors	57	24	25.52	0
452021	452021	Animal Breeders	13	6	0.00	0
452041	452041	Graders and Sorters, Agricultural Products	164	2	13.79	0
452091	452091	Agricultural Equipment Operators	303	3	17.15	0
452092	452092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	1294	2	13.80	0
452093	452093	Farmworkers, Farm, Ranch, and Aquacultural Animals	413	2	13.00	0
452099	452099	Agricultural Workers, All Other	11	2	0.00	0

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O*NET-SOC 2010 Code	O*NET-SOC 2019 Code	O*NET-SOC 2019 Title	Annual Openings	Education/ OJT code	Median Wage per Hour	Demand Code
453011	453031	Fishing and Hunting Workers	#N/A	#N/A	#N/A	0
454011	454011	Forest and Conservation Workers	54	7	17.42	0
454021	454021	Fallers	#N/A	#N/A	#N/A	0
454022	454022	Logging Equipment Operators	#N/A	#N/A	#N/A	0
454023	454023	Log Graders and Scalers	#N/A	#N/A	#N/A	0
454029	454029	Logging Workers, All Other	#N/A	#N/A	#N/A	0
471011	471011	First-Line Supervisors of Construction Trades and Extraction	1176	5	40.06	0
472011	472011	Boilermakers	#N/A	#N/A	#N/A	0
472021	472021	Brickmasons and Blockmasons	366	9	41.87	0
472022	472022	Stonemasons	#N/A	#N/A	#N/A	0
472031	472031	Carpenters	3521	9	33.22	5
472041	472041	Carpet Installers	78	2	18.33	0
472042	472042	Floor Layers, Except Carpet, Wood, and Hard Tiles	179	3	21.27	0
472043	472043	Floor Sanders and Finishers	#N/A	#N/A	#N/A	0
472044	472044	Tile and Stone Setters	300	4	18.81	0
472051	472051	Cement Masons and Concrete Finishers	615	3	34.26	0
472053	472053	Terrazzo Workers and Finishers	#N/A	#N/A	#N/A	0
472061	472061	Construction Laborers	4785	2	27.34	0
472071	472071	Paving, Surfacing, and Tamping Equipment Operators	227	7	31.17	0
472072	472072	Pile Driver Operators	#N/A	#N/A	#N/A	0
472073	472073	Operating Engineers and Other Construction Equipment	1331	7	38.68	5
472081	472081	Drywall and Ceiling Tile Installers	186	3	20.90	0
472082	472082	Tapers	63	3	42.94	0
472111	472111	Electricians	3055	9	39.17	5
472121	472121	Glaziers	158	9	35.12	0
472131	472131	Insulation Workers, Floor, Ceiling, and Wall	103	2	28.60	0
472132	472132	Insulation Workers, Mechanical	38	9	37.21	0
472141	472141	Painters, Construction and Maintenance	1251	3	23.44	0
472142	472142	Paperhangers	#N/A	#N/A	#N/A	0
472151	472151	Pipelayers	40	2	34.42	0
472152	472152	Plumbers, Pipefitters, and Steamfitters	1965	9	43.85	5
472161	472161	Plasterers and Stucco Masons	21	4	35.48	0
472171	472171	Reinforcing Iron and Rebar Workers	65	9	46.98	0
472181	472181	Roofers	555	3	27.09	0
472211	472211	Sheet Metal Workers	572	9	35.99	3
472221	472221	Structural Iron and Steel Workers	338	9	43.66	0
472231	472231	Solar Photovoltaic Installers	#N/A	#N/A	#N/A	2
473011	473011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile	27	2	18.71	0
473012	473012	Helpers--Carpenters	54	2	17.04	0
473013	473013	Helpers--Electricians	77	6	16.22	0
473014	473014	Helpers--Painters, Paperhangers, Plasterers, and Stucco	17	2	14.32	0
473015	473015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	68	6	15.70	0
473016	473016	Helpers--Roofers	27	2	16.92	0
473019	473019	Helpers, Construction Trades, All Other	46	2	16.01	0
474011	474011	Construction and Building Inspectors	317	7	32.72	2
474021	474021	Elevator and Escalator Installers and Repairers	119	9	47.30	0
474031	474031	Fence Erectors	123	3	24.18	0
474041	474041	Hazardous Materials Removal Workers	202	7	24.84	0
474051	474051	Highway Maintenance Workers	944	7	25.70	5
474061	474061	Rail-Track Laying and Maintenance Equipment Operators	#N/A	#N/A	#N/A	0
474071	474071	Septic Tank Servicers and Sewer Pipe Cleaners	116	7	24.02	0
474091	474091	Segmental Pavers	#N/A	#N/A	#N/A	0
474099	474099	Construction and Related Workers, All Other	#N/A	#N/A	#N/A	0
475011	475011	Derrick Operators, Oil and Gas	6	2	0.00	0
475012	475012	Rotary Drill Operators, Oil and Gas	43	3	19.02	0
475013	475013	Service Unit Operators, Oil and Gas	15	3	18.10	0
537032	475022	Excavating and Loading Machine and Dragline Operators,	70	7	0.00	0

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O*NET-SOC 2010 Code	O*NET-SOC 2019 Code	O*NET-SOC 2019 Title	Annual Openings	Education/ OJT code	Median Wage per Hour	Demand Code
475021	475023	Earth Drillers, Except Oil and Gas	20	7	0.00	0
475021	475032	Explosives Workers, Ordnance Handling Experts, and	20	7	0.00	0
475041	475041	Continuous Mining Machine Operators	66	3	28.21	0
475061	475043	Roof Bolters, Mining	30	7	0.00	0
537033	475044	Loading and Moving Machine Operators, Underground	13	2	0.00	0
475042	475049	Underground Mining Machine Operators, All Other	26	7	0.00	0
475051	475051	Rock Splitters, Quarry	8	2	17.71	0
475071	475071	Roustabouts, Oil and Gas	19	3	17.86	0
475081	475081	Helpers--Extraction Workers	35	7	21.66	0
475049	475099	Extraction Workers, All Other	#N/A	#N/A	#N/A	0
491011	491011	First-Line Supervisors of Mechanics, Installers, and Repairers	1388	5	33.55	0
492011	492011	Computer, Automated Teller, and Office Machine Repairers	444	11	19.63	0
492021	492021	Radio, Cellular, and Tower Equipment Installers and	#N/A	#N/A	#N/A	0
492022	492022	Telecommunications Equipment Installers and Repairers,	830	16	30.05	5
492091	492091	Avionics Technicians	#N/A	#N/A	#N/A	0
492092	492092	Electric Motor, Power Tool, and Related Repairers	79	7	43.36	0
492093	492093	Electrical and Electronics Installers and Repairers,	54	17	0.00	0
492094	492094	Electrical and Electronics Repairers, Commercial and	182	17	29.29	2
492095	492095	Electrical and Electronics Repairers, Powerhouse, Substation,	52	16	44.11	0
492096	492096	Electronic Equipment Installers and Repairers, Motor	15	16	17.29	2
492097	492097	Audiovisual Equipment Installers and Repairers	135	15	18.64	0
492098	492098	Security and Fire Alarm Systems Installers	252	7	28.47	0
493011	493011	Aircraft Mechanics and Service Technicians	348	14	32.52	1
493021	493021	Automotive Body and Related Repairers	696	8	21.38	4
493022	493022	Automotive Glass Installers and Repairers	41	7	21.23	0
493023	493023	Automotive Service Technicians and Mechanics	2855	15	20.10	4
493031	493031	Bus and Truck Mechanics and Diesel Engine Specialists	1026	8	24.25	5
493041	493041	Farm Equipment Mechanics and Service Technicians	135	8	22.31	0
493042	493042	Mobile Heavy Equipment Mechanics, Except Engines	323	8	28.40	0
493043	493043	Rail Car Repairers	322	8	25.20	0
493051	493051	Motorboat Mechanics and Service Technicians	48	8	17.67	0
493052	493052	Motorcycle Mechanics	30	15	16.82	0
493053	493053	Outdoor Power Equipment and Other Small Engine	88	7	15.56	0
493091	493091	Bicycle Repairers	#N/A	#N/A	#N/A	0
493092	493092	Recreational Vehicle Service Technicians	#N/A	#N/A	#N/A	0
493093	493093	Tire Repairers and Changers	375	6	13.45	0
499011	499011	Mechanical Door Repairers	18	7	19.86	0
499012	499012	Control and Valve Installers and Repairers, Except	92	7	39.08	0
499021	499021	Heating, Air Conditioning, and Refrigeration Mechanics and	870	17	27.52	5
499031	499031	Home Appliance Repairers	252	7	19.94	0
499041	499041	Industrial Machinery Mechanics	1411	8	26.79	5
499043	499043	Maintenance Workers, Machinery	369	8	25.49	1
499044	499044	Millwrights	173	9	31.25	0
499045	499045	Refractory Materials Repairers, Except Brickmasons	#N/A	#N/A	#N/A	0
499051	499051	Electrical Power-Line Installers and Repairers	307	8	43.49	1
499052	499052	Telecommunications Line Installers and Repairers	282	8	28.15	0
499061	499061	Camera and Photographic Equipment Repairers	44	8	18.05	0
499062	499062	Medical Equipment Repairers	158	20	22.30	0
499063	499063	Musical Instrument Repairers and Tuners	45	9	18.73	0
499064	499064	Watch and Clock Repairers	#N/A	#N/A	#N/A	0
499069	499069	Precision Instrument and Equipment Repairers, All Other	17	8	29.29	0
499071	499071	Maintenance and Repair Workers, General	6508	7	20.11	4
499081	499081	Wind Turbine Service Technicians	#N/A	#N/A	#N/A	2
499091	499091	Coin, Vending, and Amusement Machine Servicers and	184	6	18.05	0
499092	499092	Commercial Divers	#N/A	#N/A	#N/A	0
499094	499094	Locksmiths and Safe Repairers	89	8	24.44	0
499095	499095	Manufactured Building and Mobile Home Installers	#N/A	#N/A	#N/A	0

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499096	499096	Riggers	58	7	34.41	0
499097	499097	Signal and Track Switch Repairers	101	7	37.89	0
499098	499098	Helpers--Installation, Maintenance, and Repair Workers	303	6	15.82	0
499093	499099	Installation, Maintenance, and Repair Workers, All Other	#N/A	#N/A	#N/A	0
511011	511011	First-Line Supervisors of Production and Operating Workers	2597	5	29.09	0
512011	512011	Aircraft Structure, Surfaces, Rigging, and Systems	18	7	0.00	0
512021	512021	Coil Winders, Tapers, and Finishers	47	7	21.21	0
512022	512022	Electrical and Electronic Equipment Assemblers	1122	7	15.79	4
512023	512023	Electromechanical Equipment Assemblers	#N/A	#N/A	#N/A	0
512031	512031	Engine and Other Machine Assemblers	160	7	20.69	0
512041	512041	Structural Metal Fabricators and Fitters	206	7	19.69	0
512091	512051	Fiberglass Laminators and Fabricators	18	7	0.00	0
512093	512061	Timing Device Assemblers and Adjusters	3	7	0.00	0
512092	512092	Team Assemblers	0	0	0.00	2
512099	512099	Assemblers and Fabricators, All Other	6882	7	15.22	4
513011	513011	Bakers	1302	4	12.88	0
513021	513021	Butchers and Meat Cutters	948	4	14.91	0
513022	513022	Meat, Poultry, and Fish Cutters and Trimmers	353	2	15.46	0
513023	513023	Slaughterers and Meat Packers	549	2	14.99	0
513091	513091	Food and Tobacco Roasting, Baking, and Drying Machine	145	3	15.29	0
513092	513092	Food Batchmakers	1976	7	16.92	4
513093	513093	Food Cooking Machine Operators and Tenders	119	7	15.46	0
513099	513099	Food Processing Workers, All Other	149	3	14.10	0
514021	514021	Extruding and Drawing Machine Setters, Operators, and	173	7	17.70	0
514022	514022	Forging Machine Setters, Operators, and Tenders, Metal and	63	7	19.96	0
514023	514023	Rolling Machine Setters, Operators, and Tenders, Metal and	62	7	20.82	0
514031	514031	Cutting, Punching, and Press Machine Setters, Operators, and	948	7	16.98	4
514032	514032	Drilling and Boring Machine Tool Setters, Operators, and	65	7	20.06	0
514033	514033	Grinding, Lapping, Polishing, and Buffing Machine Tool	335	7	17.73	0
514034	514034	Lathe and Turning Machine Tool Setters, Operators, and	290	7	20.73	0
514035	514035	Milling and Planing Machine Setters, Operators, and Tenders,	95	7	22.39	0
514041	514041	Machinists	3356	8	19.44	4
514051	514051	Metal-Refining Furnace Operators and Tenders	81	7	22.28	0
514052	514052	Pourers and Casters, Metal	56	7	20.95	0
514061	514061	Model Makers, Metal and Plastic	48	7	30.79	0
514062	514062	Patternmakers, Metal and Plastic	30	7	23.49	0
514071	514071	Foundry Mold and Coremakers	82	7	22.24	0
514072	514072	Molding, Coremaking, and Casting Machine Setters,	756	7	16.50	4
514081	514081	Multiple Machine Tool Setters, Operators, and Tenders,	1386	7	18.05	4
514111	514111	Tool and Die Makers	517	17	25.24	3
514121	514121	Welders, Cutters, Solderers, and Brazers	1490	7	19.67	4
514122	514122	Welding, Soldering, and Brazing Machine Setters, Operators,	142	7	16.36	0
514191	514191	Heat Treating Equipment Setters, Operators, and Tenders,	88	7	17.16	0
514192	514192	Layout Workers, Metal and Plastic	3	7	0.00	0
514193	514193	Plating Machine Setters, Operators, and Tenders, Metal and	227	7	15.77	0
514194	514194	Tool Grinders, Filers, and Sharpeners	63	7	23.26	0
514199	514199	Metal Workers and Plastic Workers, All Other	63	7	15.66	0
515111	515111	Prepress Technicians and Workers	142	14	18.49	0
515112	515112	Printing Press Operators	990	7	17.64	4
515113	515113	Print Binding and Finishing Workers	360	7	16.22	0
516011	516011	Laundry and Dry-Cleaning Workers	1059	2	11.78	0
516021	516021	Pressers, Textile, Garment, and Related Materials	60	2	11.38	0
516031	516031	Sewing Machine Operators	440	2	13.36	0
516041	516041	Shoe and Leather Workers and Repairers	61	7	13.76	0
516042	516042	Shoe Machine Operators and Tenders	1	7	0.00	0
516051	516051	Sewers, Hand	#N/A	#N/A	#N/A	0
516052	516052	Tailors, Dressmakers, and Custom Sewers	76	3	15.81	0

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516061	516061	Textile Bleaching and Dyeing Machine Operators and	21	6	14.84	0
516062	516062	Textile Cutting Machine Setters, Operators, and Tenders	46	7	14.36	0
516063	516063	Textile Knitting and Weaving Machine Setters, Operators,	#N/A	#N/A	#N/A	0
516064	516064	Textile Winding, Twisting, and Drawing Out Machine	#N/A	#N/A	#N/A	0
516091	516091	Extruding and Forming Machine Setters, Operators, and	190	7	16.77	0
516092	516092	Fabric and Apparel Patternmakers	#N/A	#N/A	#N/A	0
516093	516093	Upholsterers	90	7	16.15	0
516099	516099	Textile, Apparel, and Furnishings Workers, All Other	33	6	13.06	0
517011	517011	Cabinetmakers and Bench Carpenters	395	7	19.41	0
517021	517021	Furniture Finishers	82	6	16.87	0
517031	517031	Model Makers, Wood	#N/A	#N/A	#N/A	0
517032	517032	Patternmakers, Wood	#N/A	#N/A	#N/A	0
517041	517041	Sawing Machine Setters, Operators, and Tenders, Wood	127	7	14.12	0
517042	517042	Woodworking Machine Setters, Operators, and Tenders,	137	7	17.35	0
517099	517099	Woodworkers, All Other	4	7	0.00	0
518011	518011	Nuclear Power Reactor Operators	16	8	45.03	0
518012	518012	Power Distributors and Dispatchers	48	8	40.93	0
518013	518013	Power Plant Operators	101	8	39.30	0
518021	518021	Stationary Engineers and Boiler Operators	230	8	43.59	1
518031	518031	Water and Wastewater Treatment Plant and System Operators	356	8	27.78	1
518091	518091	Chemical Plant and System Operators	80	7	31.43	0
518092	518092	Gas Plant Operators	53	8	29.54	0
518093	518093	Petroleum Pump System Operators, Refinery Operators, and	104	7	42.44	0
518099	518099	Plant and System Operators, All Other	26	7	33.87	0
519011	519011	Chemical Equipment Operators and Tenders	248	7	25.44	1
519012	519012	Separating, Filtering, Clarifying, Precipitating, and Still	163	7	18.34	0
519021	519021	Crushing, Grinding, and Polishing Machine Setters,	#N/A	#N/A	#N/A	0
519022	519022	Grinding and Polishing Workers, Hand	59	3	15.86	0
519023	519023	Mixing and Blending Machine Setters, Operators, and	738	7	18.23	4
519031	519031	Cutters and Trimmers, Hand	18	2	13.67	0
519032	519032	Cutting and Slicing Machine Setters, Operators, and Tenders	305	7	16.30	0
519041	519041	Extruding, Forming, Pressing, and Compacting Machine	242	7	17.91	0
519051	519051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	118	7	19.79	0
519061	519061	Inspectors, Testers, Sorters, Samplers, and Weighers	2759	7	18.17	4
519071	519071	Jewelers and Precious Stone and Metal Workers	116	8	14.87	0
519081	519081	Dental Laboratory Technicians	165	7	21.38	0
519082	519082	Medical Appliance Technicians	84	7	22.15	0
519083	519083	Ophthalmic Laboratory Technicians	194	7	15.09	0
519111	519111	Packaging and Filling Machine Operators and Tenders	2140	7	15.63	4
519123	519123	Painting, Coating, and Decorating Workers	37	3	16.78	0
519121	519124	Coating, Painting, and Spraying Machine Setters, Operators,	301	7	0.00	0
519141	519141	Semiconductor Processing Technicians	#N/A	#N/A	#N/A	0
519151	519151	Photographic Process Workers and Processing Machine	51	6	19.66	0
514011	519161	Computer Numerically Controlled Tool Operators	534	7	18.82	1
514012	519162	Computer Numerically Controlled Tool Programmers	155	16	0.00	0
519191	519191	Adhesive Bonding Machine Operators and Tenders	76	7	14.67	0
519192	519192	Cleaning, Washing, and Metal Pickling Equipment Operators	109	7	13.62	0
519193	519193	Cooling and Freezing Equipment Operators and Tenders	38	7	16.61	0
519194	519194	Etchers and Engravers	68	7	16.86	0
519195	519195	Molders, Shapers, and Casters, Except Metal and Plastic	170	8	16.75	0
519196	519196	Paper Goods Machine Setters, Operators, and Tenders	334	7	17.65	0
519197	519197	Tire Builders	#N/A	#N/A	#N/A	0
519198	519198	Helpers--Production Workers	2392	6	14.34	0
519199	519199	Production Workers, All Other	3977	7	15.50	0
531011	531041	Aircraft Cargo Handling Supervisors	46	5	0.00	0
531021	531042	First-Line Supervisors of Helpers, Laborers, and Material	#N/A	#N/A	#N/A	0
531031	531043	First-Line Supervisors of Material-Moving Machine and	#N/A	#N/A	#N/A	0

Demand Occupation Training List

O*NET-SOC 2010 Code	O*NET-SOC 2019 Code	O*NET-SOC 2019 Title	Annual Openings	Education/ OJT code	Median Wage per Hour	Demand Code
391021	531044	First-Line Supervisors of Passenger Attendants	696	5	0.00	0
531031	531049	First-Line Supervisors of Transportation Workers, All Other	#N/A	#N/A	#N/A	0
532011	532011	Airline Pilots, Copilots, and Flight Engineers	672	24	0.00	4
532012	532012	Commercial Pilots	60	7	0.00	0
532021	532021	Air Traffic Controllers	74	21	71.99	0
532022	532022	Airfield Operations Specialists	43	8	0.00	0
532031	532031	Flight Attendants	1174	7	0.00	4
533011	533011	Ambulance Drivers and Attendants, Except Emergency	103	7	11.22	0
533031	533031	Driver/Sales Workers	1459	6	10.45	0
533032	533032	Heavy and Tractor-Trailer Truck Drivers	9075	15	23.24	5
533033	533033	Light Truck Drivers	6415	6	19.73	0
533022	533051	Bus Drivers, School	2853	6	0.00	0
533021	533052	Bus Drivers, Transit and Intercity	883	7	0.00	4
533022	533053	Shuttle Drivers and Chauffeurs	2853	6	0.00	0
533041	533054	Taxi Drivers	1509	2	0.00	0
533099	533099	Motor Vehicle Operators, All Other	183	2	21.81	0
534011	534011	Locomotive Engineers	166	7	33.05	0
534013	534013	Rail Yard Engineers, Dinkey Operators, and Hostlers	20	7	0.00	0
534012	534022	Railroad Brake, Signal, and Switch Operators and	#N/A	#N/A	#N/A	0
534031	534031	Railroad Conductors and Yardmasters	249	7	32.69	0
534041	534041	Subway and Streetcar Operators	38	7	0.00	0
534099	534099	Rail Transportation Workers, All Other	#N/A	#N/A	#N/A	0
535011	535011	Sailors and Marine Oilers	83	3	22.39	0
535021	535021	Captains, Mates, and Pilots of Water Vessels	118	14	30.36	0
535022	535022	Motorboat Operators	#N/A	#N/A	#N/A	0
535031	535031	Ship Engineers	#N/A	#N/A	#N/A	0
536011	536011	Bridge and Lock Tenders	30	6	28.09	0
536021	536021	Parking Attendants	790	2	12.23	0
536031	536031	Automotive and Watercraft Service Attendants	394	2	12.44	0
536099	536032	Aircraft Service Attendants	251	6	0.00	0
536041	536041	Traffic Technicians	12	7	30.80	0
536051	536051	Transportation Inspectors	85	7	37.12	0
536061	536061	Passenger Attendants	222	6	11.86	0
536099	536099	Transportation Workers, All Other	251	6	0.00	0
537011	537011	Conveyor Operators and Tenders	135	2	17.63	0
537021	537021	Crane and Tower Operators	217	7	24.48	0
537031	537031	Dredge Operators	#N/A	#N/A	#N/A	0
537041	537041	Hoist and Winch Operators	#N/A	#N/A	#N/A	0
537051	537051	Industrial Truck and Tractor Operators	3572	2	17.39	0
537061	537061	Cleaners of Vehicles and Equipment	2841	2	11.61	0
537062	537062	Laborers and Freight, Stock, and Material Movers, Hand	23308	2	13.75	0
537063	537063	Machine Feeders and Offbearers	247	2	16.87	0
537064	537064	Packers and Packagers, Hand	7281	2	13.57	0
435081	537065	Stockers and Order Fillers	13756	6	0.00	0
537071	537071	Gas Compressor and Gas Pumping Station Operators	4	7	0.00	0
537072	537072	Pump Operators, Except Wellhead Pumps	#N/A	#N/A	#N/A	0
537073	537073	Wellhead Pumps	7	7	17.41	0
537081	537081	Refuse and Recyclable Material Collectors	729	2	33.27	0
537121	537121	Tank Car, Truck, and Ship Loaders	26	2	18.32	0
537032	537199	Material Moving Workers, All Other	70	7	0.00	0
551011	551011	Air Crew Officers	#N/A	#N/A	#N/A	0
551012	551012	Aircraft Launch and Recovery Officers	#N/A	#N/A	#N/A	0
551013	551013	Armored Assault Vehicle Officers	#N/A	#N/A	#N/A	0
551014	551014	Artillery and Missile Officers	#N/A	#N/A	#N/A	0
551015	551015	Command and Control Center Officers	#N/A	#N/A	#N/A	0
551016	551016	Infantry Officers	#N/A	#N/A	#N/A	0
551017	551017	Special Forces Officers	#N/A	#N/A	#N/A	0

Demand Occupation Training List

O*NET-SOC 2010 Code	O*NET-SOC 2019 Code	O*NET-SOC 2019 Title	Annual Openings	Education/ OJT code	Median Wage per Hour	Demand Code
551019	551019	Military Officer Special and Tactical Operations Leaders, All	#N/A	#N/A	#N/A	0
552011	552011	First-Line Supervisors of Air Crew Members	#N/A	#N/A	#N/A	0
552012	552012	First-Line Supervisors of Weapons Specialists/Crew	#N/A	#N/A	#N/A	0
552013	552013	First-Line Supervisors of All Other Tactical Operations	#N/A	#N/A	#N/A	0
553011	553011	Air Crew Members	#N/A	#N/A	#N/A	0
553012	553012	Aircraft Launch and Recovery Specialists	#N/A	#N/A	#N/A	0
553013	553013	Armored Assault Vehicle Crew Members	#N/A	#N/A	#N/A	0
553014	553014	Artillery and Missile Crew Members	#N/A	#N/A	#N/A	0
553015	553015	Command and Control Center Specialists	#N/A	#N/A	#N/A	0
553016	553016	Infantry	#N/A	#N/A	#N/A	0
553018	553018	Special Forces	#N/A	#N/A	#N/A	0
553019	553019	Military Enlisted Tactical Operations and Air/Weapons	#N/A	#N/A	#N/A	0
'N/A'	Indicates the occupation did not exist in the 2010 Demand Occupation Training List					
'-'	Indicates there was no data available for the occupation that was on the Demand Occupation Training List					
	Indicates the O*Net Code existed on 2010 Demand Occupation Training List, but was removed with the 2019 revisions					
	Indicates this is a new O*Net Code in the 2019 revision that did not exist in the 2010 listing of O*Net Codes					