

Industry and Occupation Shortages, CTE Incentive Grant Program (Updated 10/15/2026)

SOC Code	Occupation Title	Career Cluster	Subcluster
17-2112	Industrial Engineers	Advanced Manufacturing	Engineering
17-2141	Mechanical Engineers	Advanced Manufacturing	Engineering; Production & Automation
19-4031	Chemical Technicians	Advanced Manufacturing	Engineering; Production & Automation
51-1011	First-Line Supervisors of Production and Operating Workers	Advanced Manufacturing	Production & Automation
51-2090	Miscellaneous Assemblers and Fabricators (See 51-2092 and 51-2099)	Advanced Manufacturing	Production & Automation
51-3092	Food Batchmakers	Advanced Manufacturing	Production & Automation
51-3093	Food Cooking Machine Operators and Tenders	Advanced Manufacturing	Production & Automation
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	Advanced Manufacturing	Industrial Machinery
51-4041	Machinists	Advanced Manufacturing	Industrial Machinery; Production & Automation
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	Advanced Manufacturing	Production & Automation
51-9011	Chemical Equipment Operators and Tenders	Advanced Manufacturing	Production & Automation
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	Advanced Manufacturing	Production & Automation
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	Advanced Manufacturing	Production & Automation
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	Advanced Manufacturing	Production & Automation; Safety & Quality Assurance
51-9071	Jewelers and Precious Stone and Metal Workers	Advanced Manufacturing	Engineering; Production & Automation
51-9161	Computer Numerically Controlled Tool Operators	Advanced Manufacturing	Production & Automation

51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	Advanced Manufacturing	Production & Automation
51-9196	Paper Goods Machine Setters, Operators, and Tenders	Advanced Manufacturing	Production & Automation
51-9198	Helpers--Production Workers	Advanced Manufacturing	Production & Automation
51-9199	Production Workers, All Other	Advanced Manufacturing	Production & Automation
51-5111	Prepress Technicians and Workers	Advanced Manufacturing; Arts, Entertainment, & Design	Production & Automation; Media Production & Broadcasting
51-5112	Printing Press Operators	Advanced Manufacturing; Arts, Entertainment, & Design	Production & Automation; Media Production & Broadcasting
51-4121	Welders, Cutters, Solderers, and Brazers	Advanced Manufacturing; Construction	Production & Automation; Skilled Trades
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	Advanced Manufacturing; Construction; Supply Chain & Transportation; Energy & Natural Resources	Industrial Machinery; Construction Planning & Development; Equipment Operation & Maintenance; Maintenance & Repair; Clean & Alternative Energy; Resource Extraction; Utilities
49-9041	Industrial Machinery Mechanics	Advanced Manufacturing; Energy & Natural Resources	Industrial Machinery; Resource Extraction
11-3051	Industrial Production Managers	Advanced Manufacturing; Supply Chain & Transportation; Management & Entrepreneurship	Production & Automation; Planning & Logistics; Leadership & Operations
11-9013	Farmers, Ranchers, and Other Agricultural Managers	Agriculture	Agribusiness; Animal Systems; Food Science & Processing; Plant Systems; Water Systems
19-4012	Agricultural Technicians	Agriculture	Animal Systems; Food Science & Processing; Plant Systems
19-4013	Food Science Technicians	Agriculture	Food Science & Processing

37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	Agriculture	Plant Systems
39-2011	Animal Trainers	Agriculture	Animal Systems
39-2021	Animal Caretakers	Agriculture	Animal Systems
45-2091	Agricultural Equipment Operators	Agriculture	Agricultural Technology & Automation
45-4011	Forest and Conservation Workers	Agriculture	Plant Systems
49-3041	Farm Equipment Mechanics and Service Technicians	Agriculture	Agricultural Technology & Automation; Water Systems
51-3021	Butchers and Meat Cutters	Agriculture	Food Science & Processing
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	Agriculture	Food Science & Processing
51-3023	Slaughterers and Meat Packers	Agriculture	Food Science & Processing
19-4071	Forest and Conservation Technicians	Agriculture; Energy & Natural Resources	Plant Systems; Conservation & Land Management; Ecological Research & Development
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	Agriculture; Energy & Natural Resources	Agribusiness; Animal Systems; Food Science & Processing; Plant Systems; Water Systems; Ecological Research & Development
27-2022	Coaches and Scouts	Arts, Entertainment, & Design	Performing Arts
27-2023	Umpires, Referees, and Other Sports Officials	Arts, Entertainment, & Design	Performing Arts
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	Arts, Entertainment, & Design	Performing Arts
15-1252	Software Developers	Arts, Entertainment, & Design; Digital Technology	Design & Digital Arts; Software Solutions; Web & Cloud
11-9199	Managers, All Other	Arts, Entertainment, & Design; Public Service & Safety; Management & Entrepreneurship	Design & Digital Arts; Local, State, & Federal Services; Military & National Security; Entrepreneurship & Small Business; Leadership & Operations
47-2031	Carpenters	Construction	Skilled Trades

47-2073	Operating Engineers and Other Construction Equipment Operators	Construction	Equipment Operation & Maintenance
47-2111	Electricians	Construction	Skilled Trades
47-2152	Plumbers, Pipefitters, and Steamfitters	Construction	Skilled Trades
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	Construction	Skilled Trades
49-9071	Maintenance and Repair Workers, General	Construction	Skilled Trades
49-9098	Helpers--Installation, Maintenance, and Repair Workers	Construction	Skilled Trades
51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers (OEWS hybrid. See 51-2022 and 51-2023)	Construction	Skilled Trades
45-4022	Logging Equipment Operators	Construction; Agriculture	Equipment Operation & Maintenance; Plant Systems
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	Construction; Energy & Natural Resources	Construction Planning & Development; Skilled Trades; Resource Extraction; Utilities
11-9021	Construction Managers	Construction; Management & Entrepreneurship	Construction Planning & Development; Entrepreneurship & Small Business
11-3021	Computer and Information Systems Managers	Digital Technology	IT Support & Services; Network Systems & Cybersecurity; Software Solutions; Web & Cloud
15-1211	Computer Systems Analysts	Digital Technology	Data Science & AI; Network Systems & Cybersecurity
19-4099	Life, Physical, and Social Science Technicians, All Other	Education	Teaching, Training, & Facilitation
25-2011	Preschool Teachers, Except Special Education	Education	Early Childhood Development; Teaching, Training, & Facilitation

25-2012	Kindergarten Teachers, Except Special Education	Education	Teaching, Training, & Facilitation
25-2021	Elementary School Teachers, Except Special Education	Education	Teaching, Training, & Facilitation
25-2022	Middle School Teachers, Except Special and Career/Technical Education	Education	Teaching, Training, & Facilitation
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	Education	Teaching, Training, & Facilitation
25-2051	Special Education Teachers, Preschool	Education	Learner Support & Community Engagement; Teaching, Training, & Facilitation
25-2052	Special Education Teachers, Kindergarten and Elementary School (OEWS Hybrid. See 25-2055 and 25-2056)	Education	Learner Support & Community Engagement; Teaching, Training, & Facilitation
25-2057	Special Education Teachers, Middle School	Education	Learner Support & Community Engagement; Teaching, Training, & Facilitation
25-2058	Special Education Teachers, Secondary School	Education	Learner Support & Community Engagement; Teaching, Training, & Facilitation
25-2059	Special Education Teachers, All Other	Education	Learner Support & Community Engagement; Teaching, Training, & Facilitation
25-3011	Adult Basic Education, Adult Secondary Education, and English as a Second Language Instructors	Education	Teaching, Training, & Facilitation
25-3021	Self-Enrichment Teachers	Education	Teaching, Training, & Facilitation
25-3031	Substitute Teachers, Short-Term	Education	Teaching, Training, & Facilitation
25-3041	Tutors	Education	Teaching, Training, & Facilitation
25-3099	Teachers and Instructors, All Other	Education	Teaching, Training, & Facilitation

25-4031	Library Technicians	Education	Learner Support & Community Engagement
25-9044	Teaching Assistants, Postsecondary	Education	Teaching, Training, & Facilitation
25-9045	Teaching Assistants, Except Postsecondary (OEWS hybrid. See 25-9042, 25-9043, and 25-9049)	Education	Early Childhood Development; Teaching, Training, & Facilitation
39-9011	Childcare Workers	Education	Early Childhood Development
39-9041	Residential Advisors	Education	Learner Support & Community Engagement
43-4121	Library Assistants, Clerical	Education	Learner Support & Community Engagement
21-1021	Child, Family, and School Social Workers	Education; Healthcare & Human Services	Learner Support & Community Engagement; Community & Social Services
43-4199	Information and Record Clerks, All Other	Education; Public Service & Safety	Learner Support & Community Engagement; Local, State, & Federal Services
13-1111	Management Analysts	Education; Public Service & Safety; Management & Entrepreneurship	Education Administration & Leadership; Local, State, & Federal Services; Business Information Management; Entrepreneurship & Small Business
17-3031	Surveying and Mapping Technicians	Energy & Natural Resources	Conservation & Land Management; Utilities
11-1021	General and Operations Managers	Energy & Natural Resources; Management & Entrepreneurship	Conservation & Land Management; Entrepreneurship & Small Business; Leadership & Operations
13-2011	Accountants and Auditors	Financial Services	Accounting
13-2082	Tax Preparers	Financial Services	Financial Strategy & Investments
41-3021	Insurance Sales Agents	Financial Services	Insurance
41-9022	Real Estate Sales Agents	Financial Services	Real Estate
43-3021	Billing and Posting Clerks	Financial Services	Accounting
43-3031	Bookkeeping, Accounting, and Auditing Clerks	Financial Services	Accounting
43-3071	Tellers	Financial Services	Accounting

43-4011	Brokerage Clerks	Financial Services	Financial Strategy & Investments
11-9111	Medical and Health Services Managers	Healthcare & Human Services	Health Data & Administration
21-1093	Social and Human Service Assistants	Healthcare & Human Services	Community & Social Services
29-1141	Registered Nurses	Healthcare & Human Services	Physical Health
29-2042	Emergency Medical Technicians	Healthcare & Human Services	Physical Health
29-2043	Paramedics	Healthcare & Human Services	Physical Health
29-2051	Dietetic Technicians	Healthcare & Human Services	Personal Care Services; Physical Health
29-2052	Pharmacy Technicians	Healthcare & Human Services	Physical Health
29-2057	Ophthalmic Medical Technicians	Healthcare & Human Services	Physical Health
29-2061	Licensed Practical and Licensed Vocational Nurses	Healthcare & Human Services	Physical Health
31-1120	Home Health and Personal Care Aides (See 31-1121 and 31-1122)	Healthcare & Human Services	Personal Care Services
31-1131	Nursing Assistants	Healthcare & Human Services	Physical Health
31-1132	Orderlies	Healthcare & Human Services	Physical Health
31-2011	Occupational Therapy Assistants	Healthcare & Human Services	Physical Health
31-2021	Physical Therapist Assistants	Healthcare & Human Services	Physical Health
31-2022	Physical Therapist Aides	Healthcare & Human Services	Physical Health
31-9011	Massage Therapists	Healthcare & Human Services	Personal Care Services
31-9091	Dental Assistants	Healthcare & Human Services	Physical Health
31-9092	Medical Assistants	Healthcare & Human Services	Health Data & Administration
31-9093	Medical Equipment Preparers	Healthcare & Human Services	Physical Health
31-9094	Medical Transcriptionists	Healthcare & Human Services	Health Data & Administration

31-9095	Pharmacy Aides	Healthcare & Human Services	Physical Health
31-9097	Phlebotomists	Healthcare & Human Services	Physical Health
39-1022	First-line Supervisors of Personal Service Workers	Healthcare & Human Services	Personal Care Services
39-4021	Funeral Attendants	Healthcare & Human Services	Physical Health
39-4031	Morticians, Undertakers, and Funeral Arrangers	Healthcare & Human Services	Physical Health
39-5012	Hairdressers, Hairstylists, and Cosmetologists	Healthcare & Human Services	Personal Care Services
39-5094	Skincare Specialists	Healthcare & Human Services	Personal Care Services
39-9031	Exercise Trainers and Group Fitness Instructors	Healthcare & Human Services	Personal Care Services
39-9099	Personal Care and Service Workers, All Other	Healthcare & Human Services	Personal Care Services
43-4111	Interviewers, Except Eligibility and Loan	Healthcare & Human Services	Community & Social Services
43-6013	Medical Secretaries and Administrative Assistants	Healthcare & Human Services	Health Data & Administration
51-9081	Dental Laboratory Technicians	Healthcare & Human Services	Physical Health
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	Healthcare & Human Services; Agriculture	Health Data & Administration; Animal Systems
15-1232	Computer User Support Specialists	Healthcare & Human Services; Digital Technology	Health Data & Administration; IT Support & Services
11-9051	Food Service Managers	Hospitality, Events, & Tourism	Culinary & Food Services
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	Hospitality, Events, & Tourism	Culinary & Food Services
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	Hospitality, Events, & Tourism	Accommodations
37-3013	Tree Trimmers and Pruners	Hospitality, Events, & Tourism	Travel & Leisure
39-3011	Gambling Dealers	Hospitality, Events, & Tourism	Travel & Leisure
39-6012	Concierges	Hospitality, Events, & Tourism	Accommodations

39-7010	Tour and Travel Guides (See 39-7011 and 39-7012)	Hospitality, Events, & Tourism	Travel & Leisure
39-9032	Recreation Workers	Hospitality, Events, & Tourism	Travel & Leisure
43-4081	Hotel, Motel, and Resort Desk Clerks	Hospitality, Events, & Tourism	Accommodations
43-4171	Receptionists and Information Clerks	Hospitality, Events, & Tourism	Accommodations
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	Hospitality, Events, & Tourism	Travel & Leisure
35-1011	Chefs and Head Cooks	Hospitality, Events, & Tourism; Management & Entrepreneurship	Culinary & Food Services; Entrepreneurship & Small Business
11-3031	Financial Managers	Management & Entrepreneurship	Business Information Management; Regulation
13-1071	Human Resources Specialists	Management & Entrepreneurship	Entrepreneurship & Small Business; Leadership & Operations
13-1075	Labor Relations Specialists	Management & Entrepreneurship	Leadership & Operations
13-1082	Project Management Specialists	Management & Entrepreneurship	Entrepreneurship & Small Business; Project Management
13-1151	Training and Development Specialists	Management & Entrepreneurship	Leadership & Operations
13-1199	Business Operations Specialists, All Other	Management & Entrepreneurship	Business Information Management; Entrepreneurship & Small Business; Leadership & Operations
27-3031	Public Relations Specialists	Management & Entrepreneurship	Entrepreneurship & Small Business; Leadership & Operations
43-1011	First-Line Supervisors of Office and Administrative Support Workers	Management & Entrepreneurship	Entrepreneurship & Small Business; Leadership & Operations
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	Management & Entrepreneurship	Leadership & Operations
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	Management & Entrepreneurship	Leadership & Operations

43-9061	Office Clerks, General	Management & Entrepreneurship	Leadership & Operations
11-2022	Sales Managers	Marketing & Sales	Retail & Customer Experience
13-1161	Market Research Analysts and Marketing Specialists	Marketing & Sales	Market Research, Analytics, & Ethics
27-1023	Floral Designers	Marketing & Sales	Retail & Customer Experience
41-1011	First-Line Supervisors of Retail Sales Workers	Marketing & Sales	Retail & Customer Experience
41-1012	First-Line Supervisors of Non-Retail Sales Workers	Marketing & Sales	Retail & Customer Experience
41-3091	Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	Marketing & Sales	Strategic Sales
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	Marketing & Sales	Strategic Sales
43-4051	Customer Service Representatives	Marketing & Sales	Retail & Customer Experience
23-2011	Paralegals and Legal Assistants	Public Service & Safety	Judicial Systems
33-3051	Police and Sheriff's Patrol Officers	Public Service & Safety	Emergency Response; Public Safety
33-9032	Security Guards	Public Service & Safety	Public Safety
33-9094	School Bus Monitors	Public Service & Safety	Public Safety
33-9099	Protective Service Workers, All Other	Public Service & Safety	Public Safety
43-6012	Legal Secretaries and Administrative Assistants	Public Service & Safety	Judicial Systems
19-4042	Environmental Science and Protection Technicians, Including Health	Public Service & Safety; Energy & Natural Resources	Local, State, & Federal Services; Ecological Research & Development
33-2011	Firefighters	Public Service & Safety; Energy & Natural Resources	Emergency Response; Environmental Protection
13-1081	Logisticians	Supply Chain & Transportation	Planning & Logistics
43-5021	Couriers and Messengers	Supply Chain & Transportation	Planning & Logistics

43-5061	Production, Planning, and Expediting Clerks	Supply Chain & Transportation	Purchasing & Warehousing
43-5071	Shipping, Receiving, and Inventory Clerks	Supply Chain & Transportation	Purchasing & Warehousing
49-3023	Automotive Service Technicians and Mechanics	Supply Chain & Transportation	Maintenance & Repair
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	Supply Chain & Transportation	Maintenance & Repair
49-3092	Recreational Vehicle Service Technicians	Supply Chain & Transportation	Maintenance & Repair
49-3093	Tire Repairers and Changers	Supply Chain & Transportation	Maintenance & Repair
51-9111	Packaging and Filling Machine Operators and Tenders	Supply Chain & Transportation	Purchasing & Warehousing
51-9124	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	Supply Chain & Transportation	Maintenance & Repair
53-1047	FirstLine Supervisors of Transportation & Material Moving Workers, Exc Aircraft Cargo Handling Supervisor (OEWS hybrid. See 53-1042, 53-1043, 53-1044, and 53-1049)	Supply Chain & Transportation	Planning & Logistics
53-2012	Commercial Pilots	Supply Chain & Transportation	Air & Space Transportation
53-3031	Driver/Sales Workers	Supply Chain & Transportation	Ground & Rail Transportation
53-3032	Heavy and Tractor-Trailer Truck Drivers	Supply Chain & Transportation	Ground & Rail Transportation
53-3033	Light Truck Drivers	Supply Chain & Transportation	Ground & Rail Transportation
53-3051	Bus Drivers, School	Supply Chain & Transportation	Ground & Rail Transportation
53-3052	Bus Drivers, Transit and Intercity	Supply Chain & Transportation	Ground & Rail Transportation
13-1020	Buyers and Purchasing Agents (See 13-1021, 13-1022, and 13-1023)	Supply Chain & Transportation; Marketing & Sales	Purchasing & Warehousing; Strategic Sales