

**NEW ECONOMY WORKFORCE CREDENTIAL GRANT PROGRAM
DEMAND FIELDS AND RELATED NONCREDIT WORKFORCE TRAINING PROGRAMS/CREDENTIALS**

Computer and Mathematical Occupations	
Standard Occupational Codes Demand Occupations	Related Noncredit Workforce Training Program Credential
<p>15-0000 Computer and Mathematical Occupations 151132 Software Developers, Applications 151133 Software Developers, Systems Software 151121 Computer Systems Analysts 151151 Computer User Support Specialists 151142 Network and Computer Systems Administrators 151122 Information Security Analysts 151143 Computer Network Architects 151131 Computer Programmers 152031 Operations Research Analysts 151152 Computer Network Support Specialists 151141 Database Administrators 151134 Web Developers 151199 Computer Occupations, All Other</p>	<p>Certified Ethical Hacker - EC-COUNCIL</p> <ul style="list-style-type: none"> • Northern Virginia Community College • Thomas Nelson Community College <p>Certified Information Systems Security Professional (CISSP) - (ISC)2</p> <ul style="list-style-type: none"> • Thomas Nelson Community College • Tidewater Community College <p>CISCO Certified Entry Networking Technician (CCENT) - CISCO</p> <ul style="list-style-type: none"> • Danville Community College • Northern Virginia Community College • Patrick Henry Community College • Southside Virginia Community College <p>CISCO Certified Network Associate - CISCO</p> <ul style="list-style-type: none"> • Central Virginia Community College • Danville Community College • Northern Virginia Community College • Patrick Henry Community College • Southside Virginia Community College <p>CISCO Certified Network Professional - CISCO</p> <ul style="list-style-type: none"> • Danville Community College <p>CompTIA A+</p> <ul style="list-style-type: none"> • Central Virginia Community College • Danville Community College • Eastern Shore Community College • Germanna Community College • Northern Virginia Community College • Paul D. Camp Community College • Piedmont Virginia Community College • Southern Virginia Higher Education Center • Southside Virginia Community College • Southwest Virginia Community College • Thomas Nelson Community College • Tidewater Community College <p>CompTIA IT Fundamentals</p> <ul style="list-style-type: none"> • Southwest Virginia Community College <p>CompTIA Network+</p> <ul style="list-style-type: none"> • Central Virginia Community College • Danville Community College • Eastern Shore Community College • Northern Virginia Community College • Paul D. Camp Community College • Piedmont Virginia Community College • Southside Virginia Community College • Southwest Virginia Community College • Thomas Nelson Community College • Tidewater Community College <p>CompTIA Project+</p> <ul style="list-style-type: none"> • Paul D. Camp Community College <p>CompTIA Security+</p> <ul style="list-style-type: none"> • Eastern Shore Community College • Northern Virginia Community College • Paul D. Camp Community College •

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	<ul style="list-style-type: none"> • Piedmont Virginia Community College • Southside Virginia Community College • Southwest Virginia Community College • Thomas Nelson Community College • Tidewater Community College <p>CompTIA Server+</p> <ul style="list-style-type: none"> • Danville Community College • Southern Virginia Higher Education Center • Southside Virginia Community College <p>Microsoft MTA Networking Fundamentals</p> <ul style="list-style-type: none"> • Danville Community College <p>Microsoft MTA Server Administration Fundamentals</p> <ul style="list-style-type: none"> • Danville Community College <p>Project Management Professional (PMP) - Project Management Institute</p> <ul style="list-style-type: none"> • Northern Virginia Community College <p>Systems Security Certified Practitioner (SSCP) - (ISC)2</p> <ul style="list-style-type: none"> • Tidewater Community College
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Architecture and Engineering Occupations	
Standard Occupational Codes Demand Occupations	Related Noncredit Workforce Training Program Credential
<p>17-0000 Architecture and Engineering Occupations</p> <p>172051 Civil Engineers</p> <p>172141 Mechanical Engineers</p> <p>172071 Electrical Engineers</p> <p>172011 Aerospace Engineers</p> <p>172072 Electronics Engineers, Except Computer</p> <p>172112 Industrial Engineers</p> <p>173023 Electrical and Electronics Engineering Technicians</p> <p>171011 Architects, Except Landscape and Naval</p> <p>172199 Engineers, All Other</p> <p>172081 Environmental Engineers</p> <p>173029 Engineering Technicians, Except Drafters, All Other</p> <p>172061 Computer Hardware Engineers</p> <p>173022 Civil Engineering Technicians</p> <p>172161 Nuclear Engineers</p> <p>173031 Surveying and Mapping Technicians</p>	

Life, Physical and Social Science Occupations	
Standard Occupational Codes Demand Occupations	Related Noncredit Workforce Training Program Credential
<p>19-0000 Life, Physical and Social Science Occupations</p> <p>192041 Environmental Scientists and Specialists, Including Health</p> <p>194099 Life, Physical, and Social Science Technicians, All Other</p> <p>193099 Social Scientists and Related Workers, All Other</p> <p>194021 Biological Technicians</p>	

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Education, Training, and Library Occupations	
Standard Occupational Codes Demand Occupations	Related Noncredit Workforce Training Program Credential
<p>25-0000 Education, Training, and Library Occupations 252021 Elementary School Teachers, Except Special Education 259041 Teacher Assistants 252031 Secondary School Teachers, Except Special and Career/Technical Education 253098 Substitute Teachers 252022 Middle School Teachers, Except Special and Career/Technical Education 252011 Preschool Teachers, Except Special Education 253099 Teachers and Instructors, All Other 253021 Self-Enrichment Education Teachers 252012 Kindergarten Teachers, Except Special Education 254031 Library Technicians 252052 Special Education Teachers, Kindergarten and Elementary School 252032 Career/Technical Education Teachers, Secondary School 251191 Graduate Teaching Assistants 252054 Special Education Teachers, Secondary School 253011 Adult Basic and Secondary Education and Literacy Teachers and Instructors 252053 Special Education Teachers, Middle School</p>	<p>Google Certified Educator (Level I, Level II) - Google</p> <ul style="list-style-type: none"> • Lord Fairfax Community College <p>Teacher License – Virginia Department of Education</p> <ul style="list-style-type: none"> • Blue Ridge Community College • Central Virginia Community College • Community College Workforce Alliance • Lord Fairfax Community College • Southwest Virginia Community College • Tidewater Community College <p>TESOL Certification – Virginia Department of Education</p> <ul style="list-style-type: none"> • Community College Workforce Alliance

Healthcare Practitioners and Technical Occupations	
Standard Occupational Codes Demand Occupations	Related Noncredit Workforce Training Program Credential
<p>29-0000 Healthcare Practitioners and Technical Occupations 291141 Registered Nurses 292061 Licensed Practical and Licensed Vocational Nurses 292041 Emergency Medical Technicians and Paramedics 292021 Dental Hygienists 292052 Pharmacy Technicians 292012 Medical and Clinical Laboratory Technicians 292011 Medical and Clinical Laboratory Technologists 292071 Medical Records and Health Information Technicians 292034 Radiologic Technologists 292081 Opticians, Dispensing 292056 Veterinary Technologists and Technicians 292032 Diagnostic Medical Sonographers 292055 Surgical Technologists 299011 Occupational Health and Safety Specialists 292031 Cardiovascular Technologists and Technicians 292099 Health Technologists and Technicians, All Other 291126 Respiratory Therapists 299099 Healthcare Practitioners and Technical Workers, All Other</p>	<p>Advanced Cardiac Life Support – American Heart Association</p> <ul style="list-style-type: none"> • Mountain Empire Community College <p>Advanced Emergency Medical Technician (AEMT) - Virginia Office of Emergency Medical Services</p> <ul style="list-style-type: none"> • Dabney S. Lancaster Community College • Mountain Empire Community College <p>EKG Technician – American Medical Certification Associations (AMCA)</p> <ul style="list-style-type: none"> • Community College Workforce Alliance <p>EKG Technician - National Healthcareer Association</p> <ul style="list-style-type: none"> • Central Virginia Community College <p>Emergency Medical Responder - National Registry of Emergency Medical Technicians</p> <ul style="list-style-type: none"> • Dabney S. Lancaster Community College <p>Emergency Medical Technician - National Registry of Emergency Medical Technicians</p> <ul style="list-style-type: none"> • Central Virginia Community College • Dabney S. Lancaster Community College • Mountain Empire Community College <p>Emergency Medical Technician - Virginia Office of Emergency Medical Services</p> <ul style="list-style-type: none"> • Dabney S. Lancaster Community College • Danville Community College <p>Emergency Medical Technician – Intermediate - Virginia Office of Emergency Medical Services</p>

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	<ul style="list-style-type: none"> • Dabney S. Lancaster Community College • Danville Community College • Mountain Empire Community College <p>Mammography Certification - American Registry of Radiology Technologists (ARRT)</p> <ul style="list-style-type: none"> • Piedmont Virginia Community College <p>Paramedic - National Registry of Emergency Medical Technicians</p> <ul style="list-style-type: none"> • Mountain Empire Community College <p>Pediatric Advanced Life Support – American Heart Association</p> <ul style="list-style-type: none"> • Mountain Empire Community College <p>Pharmacy Technician - Pharmacy Technician Certification Board (PTCB)</p> <ul style="list-style-type: none"> • Blue Ridge Community • Eastern Shore Community College • New River Community College • Piedmont Virginia Community College • Rappahannock Community College • Southwest Virginia Community College • Thomas Nelson Community College • Virginia Highlands Community College • Virginia Western Community College <p>Pharmacy Technician - Virginia Board of Pharmacy</p> <ul style="list-style-type: none"> • Northern Virginia Community College <p>Registered Nurse (Return to Training, Noncredit) - Virginia Board of Nursing</p> <ul style="list-style-type: none"> • Southwest Virginia Community College
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Healthcare Support Occupations	
Standard Occupational Codes Demand Occupations	Related Noncredit Workforce Training Program Credential
<p>31-0000 Healthcare Support Occupations</p> <p>311014 Nursing Assistants</p> <p>319092 Medical Assistants</p> <p>319091 Dental Assistants</p> <p>319097 Phlebotomists</p> <p>319096 Veterinary Assistants and Laboratory Animal Caretakers</p> <p>319011 Massage Therapists</p> <p>312021 Physical Therapist Assistants</p> <p>312022 Physical Therapist Aides</p> <p>319099 Healthcare Support Workers, All Other</p> <p>319094 Medical Transcriptionists</p> <p>312011 Occupational Therapy Assistants</p>	<p>Certified Massage Therapist - Virginia Board of Nursing</p> <ul style="list-style-type: none"> • Southside Virginia Community College <p>Certified Nurse Aide - Virginia Board of Nursing</p> <ul style="list-style-type: none"> • Blue Ridge Community College • Community College Workforce Alliance • Dabney S. Lancaster Community College • Danville Community College • Lord Fairfax Community College • Northern Virginia Community College • Mountain Empire Community College • Patrick Henry Community College • Piedmont Virginia Community College • Rappahannock Community College • Southside Virginia Community College • Southwest Virginia Community College • Thomas Nelson Community College • Virginia Western Community College • Wytheville Community College <p>Clinical Medical Assistant - American Medical Certification Association</p> <ul style="list-style-type: none"> • Central Virginia Community College • Community College Workforce Alliance • Dabney S. Lancaster Community College <p>Clinical Medical Assistant – National Healthcareer Association</p>

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	<ul style="list-style-type: none"> • Blue Ridge Community College • Central Virginia Community College • Dabney S. Lancaster Community College • Lord Fairfax Community College • New River Community College • Northern Virginia Community College • Patrick Henry Community College • Piedmont Virginia Community College • Thomas Nelson Community College • Tidewater Community College <p>Medical Assistant - National Center for Competency Testing</p> <ul style="list-style-type: none"> • Blue Ridge Community College <p>Medication Aide - Virginia Board of Nursing</p> <ul style="list-style-type: none"> • Blue Ridge Community College • Patrick Henry Community College • Rappahannock Community College • Southside Virginia Community College • Virginia Western Community College <p>Phlebotomy Technician - American Medical Certification Association (AMCA)</p> <ul style="list-style-type: none"> • Community College Workforce Alliance <p>Phlebotomy Technician - American Society for Clinical Pathology (ASCP)</p> <ul style="list-style-type: none"> • Blue Ridge Community College • Dabney S. Lancaster Community College • Lord Fairfax Community College • Southwest Virginia Community College • Virginia Highlands Community College <p>Phlebotomy Technician - American Society of Phlebotomy Technicians (ASPT)</p> <ul style="list-style-type: none"> • Dabney S. Lancaster Community College • Southside Virginia Community College <p>Phlebotomy Technician – National Center for Competency Testing</p> <ul style="list-style-type: none"> • Blue Ridge Community College <p>Phlebotomy Technician - National Healthcareer Association</p> <ul style="list-style-type: none"> • Central Virginia Community College • Dabney S. Lancaster Community College • Lord Fairfax Community College • Patrick Henry Community College • Piedmont Virginia Community College • Southwest Virginia Community College • Thomas Nelson Community College <p>Registered Medical Assistant (RMA) - American Association of Medical Technologists</p> <ul style="list-style-type: none"> • Blue Ridge Community College
Office and Administrative Support Occupations	
<p align="center">Standard Occupational Codes Demand Occupations</p> <p>43-0000 Office and Administrative Support Occupations 439061 Office Clerks, General 434051 Customer Service Representatives 431011 First-Line Supervisors of Office and Administrative Support Workers 434171 Receptionists and Information Clerks 433031 Bookkeeping, Accounting, and Auditing Clerks</p>	<p align="center">Related Noncredit Workforce Training Program Credential</p> <p>Advanced Customer Services and Sales Certification - National Retail Federation</p> <ul style="list-style-type: none"> • Blue Ridge Community College <p>Certified Associate in Project Management (CAPM) - Project Management Institute</p> <ul style="list-style-type: none"> • Piedmont Virginia Community College

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<p>436014 Secretaries and Administrative Assistants, Except Legal, Medical, and Executive</p> <p>433071 Tellers</p> <p>433021 Billing and Posting Clerks</p> <p>435071 Shipping, Receiving, and Traffic Clerks</p> <p>433011 Bill and Account Collectors</p> <p>436013 Medical Secretaries</p> <p>434081 Hotel, Motel, and Resort Desk Clerks</p> <p>436011 Executive Secretaries and Executive Administrative Assistants</p> <p>435061 Production, Planning, and Expediting Clerks</p> <p>439199 Office and Administrative Support Workers, All Other</p> <p>435052 Postal Service Mail Carriers</p> <p>434199 Information and Record Clerks, All Other</p> <p>439041 Insurance Claims and Policy Processing Clerks</p> <p>434121 Library Assistants, Clerical</p> <p>435032 Dispatchers, Except Police, Fire, and Ambulance</p> <p>435031 Police, Fire, and Ambulance Dispatchers</p> <p>433051 Payroll and Timekeeping Clerks</p> <p>434061 Eligibility Interviewers, Government Programs</p> <p>434161 Human Resources Assistants, Except Payroll and Timekeeping</p> <p>434151 Order Clerks</p> <p>439051 Mail Clerks and Mail Machine Operators, Except Postal Service</p> <p>433061 Procurement Clerks</p> <p>434131 Loan Interviewers and Clerks</p> <p>434071 File Clerks</p> <p>434111 Interviewers, Except Eligibility and Loan</p> <p>439021 Data Entry Keyers</p> <p>434031 Court, Municipal, and License Clerks</p> <p>435011 Cargo and Freight Agents</p> <p>434181 Reservation and Transportation Ticket Agents and Travel Clerks</p> <p>434011 Brokerage Clerks</p>	<p>Certified Billing and Coding Specialist (CBCS) - National Healthcareer Association</p> <ul style="list-style-type: none"> Northern Virginia Community College Patrick Henry Community College Tidewater Community College Virginia Western Community College <p>Certified Medical Administrative Assistant (CMAA) - National Healthcareer Association</p> <ul style="list-style-type: none"> Lord Fairfax Community College Thomas Nelson Community College Virginia Western Community College <p>Certified Professional Coder - American Association of Professional Coders</p> <ul style="list-style-type: none"> Blue Ridge Community College Central Virginia Community College Community College Workforce Alliance Tidewater Community College <p>Customer Services and Sales Certification - National Retail Federation</p> <ul style="list-style-type: none"> Blue Ridge Community College Community College Workforce Alliance Eastern Shore Community College Paul D. Camp Community College <p>Medical Coding & Billing Specialist - American Medical Certification Association</p> <ul style="list-style-type: none"> Community College Workforce Alliance <p>Pre-licensing for Life, Health, and Annuities Insurance - State Corporation Commission Bureau of Insurance Agents Licensing Section</p> <ul style="list-style-type: none"> Southwest Virginia Community College <p>Pre-licensing Property and Casualty Insurance - State Corporation Commission Bureau of Insurance Agents Licensing Section</p> <ul style="list-style-type: none"> Southwest Virginia Community College <p>Project Management Professional (PMP) - Project Management Institute</p> <ul style="list-style-type: none"> Central Virginia Community College Piedmont Virginia Community College Virginia Western Community College <p>Senior Professional in Human Resources - Human Resources Certification Institute</p> <ul style="list-style-type: none"> Danville Community College <p>Senior Certified Professional – Society for Human Resource Management</p> <ul style="list-style-type: none"> Central Virginia Community College <p>SHRM Certified Professional (SHRM-CP) - Society for Human Resource Management</p> <ul style="list-style-type: none"> Central Virginia Community College
Construction and Extraction Occupations	
Standard Occupational Codes Demand Occupations	Related Noncredit Workforce Training Program Credential
<p>47-0000 Construction and Extraction Occupations</p> <p>472031 Carpenters</p> <p>471011 First-Line Supervisors of Construction Trades and Extraction Workers</p> <p>472111 Electricians</p>	<p>Backflow Prevention Device Certification - Virginia Board of Contractors</p> <ul style="list-style-type: none"> Central Virginia Community College Danville Community College Paul D. Camp Community College

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<p>472073 Operating Engineers and Other Construction Equipment Operators</p> <p>472152 Plumbers, Pipefitters, and Steamfitters</p> <p>472211 Sheet Metal Workers</p> <p>473013 Helpers--Electricians</p> <p>474011 Construction and Building Inspectors</p> <p>472021 Brickmasons and Blockmasons</p> <p>472221 Structural Iron and Steel Workers</p> <p>474051 Highway Maintenance Workers</p> <p>472071 Paving, Surfacing, and Tamping Equipment Operators</p> <p>473015 Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters</p> <p>472132 Insulation Workers, Mechanical</p>	<ul style="list-style-type: none"> • Southside Virginia Community College <p>Carpentry Level 1 and 2 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Central Virginia Community College • Southwest Virginia Community College • Tidewater Community College <p>Carpentry Level 3 and 4 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Central Virginia Community College <p>Construction Project Management - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Lord Fairfax Community College <p>Contractor's License</p> <ul style="list-style-type: none"> • Southwest Virginia Community College <p>Core-Introductory Craft Skills - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Central Virginia Community College • Dabney S. Lancaster Community College • Germanna Community College • Lord Fairfax Community College • Mountain Empire Community College • Paul D. Camp Community College • Patrick Henry Community College • Piedmont Virginia Community College • Southside Virginia Community College • Southwest Virginia Community College • Tidewater Community College <p>Data Cabling Installer - Electronic Technicians Association</p> <ul style="list-style-type: none"> • Rappahannock Community College <p>Documentation and Record Keeping for Inspectors – Virginia Department of Transportation</p> <ul style="list-style-type: none"> • Community College Workforce Alliance <p>Electrical - Level 1 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Central Virginia Community College • Dabney S. Lancaster Community College • Danville Community College • Lord Fairfax Community College • Mountain Empire Community College • Piedmont Virginia Community College • Southside Virginia Community College • Thomas Nelson Community College • Tidewater Community College <p>Electrical - Level 2 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Central Virginia Community College • Dabney S. Lancaster Community College • Danville Community College • Lord Fairfax Community College • Mountain Empire Community College • Southside Virginia Community College • Thomas Nelson Community College • Tidewater Community College <p>Electrical - Level 3 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Central Virginia Community College • Dabney S. Lancaster Community College
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- Danville Community College
- Lord Fairfax Community College
- Southside Virginia Community College
- Electrical - Level 4 - National Center for Construction Education and Research (NCCER)**
- Central Virginia Community College
- Dabney S. Lancaster Community College
- Danville Community College
- Lord Fairfax Community College
- Southside Virginia Community College
- Electrical Journeyman - Virginia Board of Contractors**
- Danville Community College
- Electrical Systems Certification - Equipment and Engine Training Council**
- Piedmont Virginia Community College
- Electrical Tradesman License Renewal - Virginia Board of Contractors**
- Danville Community College
- Fiber Optic Installer - Electronic Technicians Association**
- Rappahannock Community College
- Heavy/Highway Construction - National Center for Construction Education and Research (NCCER)**
- Lord Fairfax Community College
- Heavy Equipment Operations – Level 1 - National Center for Construction Education and Research (NCCER)**
- Lord Fairfax Community College
- Southwest Virginia Community College
- Heavy Equipment Operations – Level 2 - National Center for Construction Education and Research (NCCER)**
- Southwest Virginia Community College
- Masonry Level 1 - National Center for Construction Education and Research (NCCER)**
- Southwest Virginia Community College
- Masonry Level 2 - National Center for Construction Education and Research (NCCER)**
- Southwest Virginia Community College
- Pipefitting - Level 1 - National Center for Construction Education and Research (NCCER)**
- Dabney S. Lancaster Community College
- Pipefitting - Level 2 - National Center for Construction Education and Research (NCCER)**
- Dabney S. Lancaster Community College
- Pipefitting - Level 3 - National Center for Construction Education and Research (NCCER)**
- Dabney S. Lancaster Community College
- Pipefitting - Level 4 - National Center for Construction Education and Research (NCCER)**
- Dabney S. Lancaster Community College
- Plan Reading for Inspectors – Virginia Department of Transportation**
- Community College Workforce Alliance
- Plumbing - Level 1 - National Center for Construction Education and Research (NCCER)**
- Central Virginia Community College
- Lord Fairfax Community College
- Mountain Empire Community College
- Patrick Henry Community College
- Tidewater Community College

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	<p>Plumbing - Level 2 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Central Virginia Community College • Lord Fairfax Community College • Patrick Henry Community College • Tidewater Community College <p>Plumbing - Level 3 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Central Virginia Community College • Lord Fairfax Community College • Patrick Henry Community College <p>Plumbing - Level 4 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Central Virginia Community College • Lord Fairfax Community College • Patrick Henry Community College <p>Plumbing Tradesman License Renewal - Virginia Board of Contractors</p> <ul style="list-style-type: none"> • Danville Community College <p>Roadway Construction and Drainage for Inspectors – Virginia Department of Transportation</p> <ul style="list-style-type: none"> • Community College Workforce Alliance <p>Site Manager – Virginia Department of Transportation</p> <ul style="list-style-type: none"> • Community College Workforce Alliance <p>Slurry Seal – Virginia Department of Transportation</p> <ul style="list-style-type: none"> • Germanna Community College <p>Structure and Bridges for Inspectors – Virginia Department of Transportation</p> <ul style="list-style-type: none"> • Community College Workforce Alliance <p>Surveying for Inspectors – Virginia Department of Transportation</p> <ul style="list-style-type: none"> • Community College Workforce Alliance <p>VDOT Asphalt Field Level 1 - Virginia Department of Transportation</p> <ul style="list-style-type: none"> • Germanna Community College <p>VDOT Asphalt Field Level 2 - Virginia Department of Transportation</p> <ul style="list-style-type: none"> • Germanna Community College <p>VDOT Asphalt Plant Level 1 - Virginia Department of Transportation</p> <ul style="list-style-type: none"> • Germanna Community College <p>VDOT Asphalt Plant Level 2 - Virginia Department of Transportation</p> <ul style="list-style-type: none"> • Germanna Community College <p>VDOT Surface Treatment</p> <ul style="list-style-type: none"> • Germanna Community College <p>Work Zone Flagger - Virginia Department of Transportation</p> <ul style="list-style-type: none"> • Germanna Community College • Lord Fairfax Community College • Patrick Henry Community College • Southwest Virginia Community College • Wytheville Community College
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Installation, Maintenance, and Repair Occupations	
Standard Occupational Codes Demand Occupations	Related Noncredit Workforce Training Program Credential
<p>49-000 Installation, Maintenance, and Repair Occupations</p> <p>499071 Maintenance and Repair Workers, General</p> <p>493023 Automotive Service Technicians and Mechanics</p>	<p>2-Stroke Engine Repair Certification - Equipment and Engine Training Council (EETC)</p> <ul style="list-style-type: none"> • Piedmont Virginia Community College

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<p>491011 First-Line Supervisors of Mechanics, Installers, and Repairers 499041 Industrial Machinery Mechanics 499021 Heating, Air Conditioning, and Refrigeration Mechanics and Installers 493031 Bus and Truck Mechanics and Diesel Engine Specialists 499098 Helpers--Installation, Maintenance, and Repair Workers 499052 Telecommunications Line Installers and Repairers 493021 Automotive Body and Related Repairers 499051 Electrical Power-Line Installers and Repairers 493042 Mobile Heavy Equipment Mechanics, Except Engines 492022 Telecommunications Equipment Installers and Repairers, Except Line Installers 492098 Security and Fire Alarm Systems Installers 492011 Computer, Automated Teller, and Office Machine Repairers 493093 Tire Repairers and Changers 499099 Installation, Maintenance, and Repair Workers, All Other 499043 Maintenance Workers, Machinery 493011 Aircraft Mechanics and Service Technicians 499031 Home Appliance Repairers</p>	<p>4-Stroke Engine Repair Certification - Equipment and Engine Training Council (EETC)</p> <ul style="list-style-type: none"> • Piedmont Virginia Community College <p>Certificate for Apartment Maintenance Technician – National Apartment Association of Education Institute</p> <ul style="list-style-type: none"> • Piedmont Virginia Community College <p>Driveline/Hydraulics Certification - Equipment and Engine Training Council</p> <ul style="list-style-type: none"> • Piedmont Virginia Community College <p>EPA Section 608 Technician Certification – ESCO Group</p> <ul style="list-style-type: none"> • Piedmont Virginia Community College <p>Facilities Maintenance – Home Builders Institute</p> <ul style="list-style-type: none"> • Thomas Nelson Community College <p>HVAC Excellence Employment Ready Certification – ESCO Group</p> <ul style="list-style-type: none"> • Piedmont Virginia Community College <p>HVAC - Level 1 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Lord Fairfax Community College • Mountain Empire Community College • Piedmont Virginia Community College • Thomas Nelson Community College • Tidewater Community College <p>HVAC - Level 2 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Lord Fairfax Community College • Patrick Henry Community College • Thomas Nelson Community College • Tidewater Community College <p>HVAC - Level 3 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Lord Fairfax Community College • Patrick Henry Community College <p>HVAC - Level 4 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Lord Fairfax Community College • Patrick Henry Community College <p>HVAC Tradesman License Renewal - Virginia Board of Contractors</p> <ul style="list-style-type: none"> • Danville Community College <p>Industrial Maintenance Electrical and Instrumentation – Level 1 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Paul D. Camp Community College <p>Industrial Maintenance Electrical and Instrumentation – Level 2 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Paul D. Camp Community College <p>Industrial Maintenance Electrical and Instrumentation – Level 3 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Southern Virginia Higher Education Center • Paul D. Camp Community College <p>Industrial Maintenance Electrical and Instrumentation – Level 4 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Paul D. Camp Community College <p>Industrial Maintenance Mechanic - Level 1 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Lord Fairfax Community College • Southside Virginia Community College <p>Industrial Maintenance Mechanic - Level 2 - National Center for Construction Education and Research (NCCER)</p>
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	<ul style="list-style-type: none"> • Lord Fairfax Community College • Southside Virginia Community College <p>Industrial Maintenance Mechanic - Level 3 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Lord Fairfax Community College • Southside Virginia Community College <p>Industrial Maintenance Mechanic - Level 4 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Lord Fairfax Community College • Southside Virginia Community College <p>Industrial Technology Maintenance – Electronic Control Systems – National Institute for Metalworking Skills</p> <ul style="list-style-type: none"> • Rappahannock Community College <p>Industrial Technology Maintenance – Process Control Systems – National Institute for Metalworking Skills</p> <ul style="list-style-type: none"> • Rappahannock Community College <p>Industrial Technology Maintenance – Basic Pneumatic Systems – National Institute for Metalworking Skills</p> <ul style="list-style-type: none"> • Rappahannock Community College <p>Industrial Technology Maintenance – Basic Hydraulic Systems – National Institute for Metalworking Skills</p> <ul style="list-style-type: none"> • Rappahannock Community College <p>OSHA 10 – General Industry Safety and Health</p> <ul style="list-style-type: none"> • Southern Virginia Higher Education Center <p>Power Industry Fundamentals - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Southside Virginia Community College <p>Power Line Worker 1 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Southside Virginia Community College • Mountain Empire Community College • Wytheville Community College <p>Solar Heating Entry Level 1</p> <ul style="list-style-type: none"> • Virginia Highlands Community College
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Production Occupations	
Standard Occupational Codes Demand Occupations	Related Noncredit Workforce Training Program Credential
<p>51-0000 Production Occupations</p> <p>514121 Welders, Cutters, Solderers, and Brazers</p> <p>514041 Machinists</p> <p>519061 Inspectors, Testers, Sorters, Samplers, and Weighers</p> <p>511011 First-Line Supervisors of Production and Operating Workers</p> <p>519199 Production Workers, All Other</p> <p>519111 Packaging and Filling Machine Operators and Tenders</p> <p>512092 Team Assemblers</p> <p>518031 Water and Wastewater Treatment Plant and System Operators</p> <p>515112 Printing Press Operators</p> <p>512099 Assemblers and Fabricators, All Other</p> <p>519151 Photographic Process Workers and Processing Machine Operators</p> <p>512041 Structural Metal Fabricators and Fitters</p>	<p>Certified Production Technician - Manufacturing Skills Standards Council (MSSC)</p> <ul style="list-style-type: none"> • Central Virginia Community College • Danville Community College • Patrick Henry Community College • Virginia Highlands Community College • Virginia Western Community College <p>Certified Welder - American Welding Society (AWS)</p> <ul style="list-style-type: none"> • Central Virginia Community College • Danville Community College • Northern Virginia Community College • Paul D. Camp Community College • Piedmont Virginia Community College • Rappahannock Community College • Thomas Nelson Community College

**NEW ECONOMY WORKFORCE CREDENTIAL GRANT PROGRAM
DEMAND FIELDS AND RELATED NONCREDIT WORKFORCE TRAINING PROGRAMS/CREDENTIALS**

<p>514122 Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders</p> <p>514011 Computer-Controlled Machine Tool Operators, Metal and Plastic</p> <p>517041 Sawing Machine Setters, Operators, and Tenders, Wood</p> <p>513092 Food Batchmakers</p> <p>519041 Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders</p> <p>519023 Mixing and Blending Machine Setters, Operators, and Tenders</p>	<ul style="list-style-type: none"> • Tidewater Community College • Virginia Western Community College • Wytheville Community College <p>CPR/FIRST AID/AED – American Heart Association</p> <ul style="list-style-type: none"> • Southern Virginia Higher Education Center <p>Drill Press Skills - National Institute for Metalworking Skills</p> <ul style="list-style-type: none"> • Blue Ridge Community College • Southside Virginia Community College <p>Flux Core Arc Welding (FCAW) - American Welding Society (AWS)</p> <ul style="list-style-type: none"> • Blue Ridge Community College • Dabney S. Lancaster Community College • Lord Fairfax Community College • Rappahannock Community College • Southwest Virginia Community College • Thomas Nelson Community College • Virginia Western Community College <p>Gas Metal Arc Welding (GMAW) - American Welding Society (AWS)</p> <ul style="list-style-type: none"> • Dabney S. Lancaster Community College • Danville Community College • Lord Fairfax Community College • Piedmont Virginia community College • Rappahannock Community College • Southwest Virginia Community College • Thomas Nelson Community College • Virginia Western Community College • Wytheville Community College <p>Gas Tungsten Arc Welding (GTAW) - American Welding Society (AWS)</p> <ul style="list-style-type: none"> • Blue Ridge Community College • Dabney S. Lancaster Community College • Danville Community College • Lord Fairfax Community College • Piedmont Virginia Community College • Rappahannock Community College • Southwest Virginia Community College • Thomas Nelson Community College <p>Grinding Skills I - National Institute for Metalworking Skills</p> <ul style="list-style-type: none"> • Blue Ridge Community College • Southside Virginia Community College <p>IPC-A-610 Soldering - Association Connecting Electronics Industries</p> <ul style="list-style-type: none"> • Blue Ridge Community College <p>Job Planning, Benchwork & Layout - National Institute for Metalworking Skills</p> <ul style="list-style-type: none"> • Blue Ridge Community College • Southside Virginia Community College • Tidewater Community College <p>J-STD-001 Soldering - Association Connecting Electronics Industries</p> <ul style="list-style-type: none"> • Blue Ridge Community College • Central Virginia Community College <p>Level I CNC Milling: Operations - National Institute for Metalworking Skills</p> <ul style="list-style-type: none"> • Blue Ridge Community College • Danville Community College • Southside Virginia Community College • Thomas Nelson Community College • Tidewater Community College • Virginia Western Community College
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**NEW ECONOMY WORKFORCE CREDENTIAL GRANT PROGRAM
DEMAND FIELDS AND RELATED NONCREDIT WORKFORCE TRAINING PROGRAMS/CREDENTIALS**

- Level I CNC Milling: Programming Setup & Operations - National Institute for Metalworking Skills**
 - Blue Ridge Community College
 - Danville Community College
 - Rappahannock Community College
 - Southside Virginia Community College
 - Thomas Nelson Community College
- Level I CNC Turning: Operations - National Institute for Metalworking Skills**
 - Blue Ridge Community College
 - Danville Community College
 - Southside Virginia Community College
 - Tidewater Community College
 - Thomas Nelson Community College
 - Virginia Western Community College
- Level I CNC Turning: Programming Setup & Operations - National Institute for Metalworking Skills**
 - Danville Community College
 - Rappahannock Community College
 - Southside Virginia Community College
 - Thomas Nelson Community College
- Level II CNC Milling Skills II - National Institute for Metalworking Skills**
 - Danville Community College
- Level II CNC Turning Skills II - National Institute for Metalworking Skills**
 - Danville Community College
- Manual Milling Skills I - National Institute for Metalworking Skills**
 - Blue Ridge Community College
 - Southside Virginia Community College
- Manufacturing Specialist (MS) - Virginia Manufacturers Association**
 - Blue Ridge Community College
 - Central Virginia Community College
 - Community College Workforce Alliance
 - Danville Community College
 - Lord Fairfax Community College
 - New River Community College
 - Southwest Virginia Community College
 - Thomas Nelson Community College
 - Virginia Highlands Community College
- Manufacturing Technician 1 (MT1) - Virginia Manufacturers Association**
 - Blue Ridge Community College
 - Central Virginia Community College
 - Community College Workforce Alliance
 - Dabney S. Lancaster Community College
 - Danville Community College
 - Lord Fairfax Community College
 - New River Community College
 - Paul D. Camp Community College
 - Rappahannock Community College
 - Southwest Virginia Community College
 - Thomas Nelson Community College
 - Virginia Highlands Community College
 - Virginia Western Community College
- Measurement, Materials, and Safety - National Institute for Metalworking Skills**

**NEW ECONOMY WORKFORCE CREDENTIAL GRANT PROGRAM
DEMAND FIELDS AND RELATED NONCREDIT WORKFORCE TRAINING PROGRAMS/CREDENTIALS**

	<ul style="list-style-type: none"> • Blue Ridge Community College • Danville Community College • Southside Virginia Community College • Tidewater Community College <p>Millwright - Level 1 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Dabney S. Lancaster Community College <p>Millwright - Level 2 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Dabney S. Lancaster Community College <p>Millwright - Level 3 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Dabney S. Lancaster Community College <p>Millwright - Level 4 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Dabney S. Lancaster Community College <p>Millwright - Level 5 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Dabney S. Lancaster Community College <p>OSHA 10 – Construction</p> <ul style="list-style-type: none"> • Southern Virginia Higher Education Center <p>OSHA 10 – General Industry Safety & Health</p> <ul style="list-style-type: none"> • Southern Virginia Higher Education Center <p>Shielded Metal Arc Welding (SMAW) - American Welding Society (AWS)</p> <ul style="list-style-type: none"> • Blue Ridge Community College • Dabney S. Lancaster Community College • Lord Fairfax Community College • Piedmont Virginia Community College • Rappahannock Community College • Southwest Virginia Community College • Thomas Nelson Community College • Tidewater Community College <p>Siemens Automation Fundamentals Certificate - Siemens</p> <ul style="list-style-type: none"> • Patrick Henry Community College <p>Siemens Mechatronic Systems Certification Program Level 1 - Siemens</p> <ul style="list-style-type: none"> • Danville Community College • Patrick Henry Community College • Southern Virginia Higher Education Center • Virginia Highlands Community College • Virginia Western Community College <p>Siemens Mechatronic Systems Certification Program Level 2 - Siemens</p> <ul style="list-style-type: none"> • Southern Virginia Higher Education Center <p>Six Sigma Green Belt - American Society for Quality</p> <ul style="list-style-type: none"> • New River Community College • Southwest Virginia Community College • Virginia Highlands Community College • Wytheville Community College <p>Six Sigma Yellow Belt - American Society for Quality</p> <ul style="list-style-type: none"> • New River Community Colleges • Virginia Highlands Community College • Wytheville Community College <p>Turning Operations: Turning Between Centers - National Institute for Metalworking Skills</p> <ul style="list-style-type: none"> • Blue Ridge Community College
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**NEW ECONOMY WORKFORCE CREDENTIAL GRANT PROGRAM
DEMAND FIELDS AND RELATED NONCREDIT WORKFORCE TRAINING PROGRAMS/CREDENTIALS**

	<p>Turning Operations: Turning Chucking Skills - National Institute for Metalworking Skills</p> <ul style="list-style-type: none"> • Blue Ridge Community College <p>Welding - Level 1 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Central Virginia Community College • Mountain Empire Community College • Southern Virginia Higher Education Center • Southside Virginia Community College • Virginia Western Community College <p>Welding - Level 2 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Central Virginia Community College • Southern Virginia Higher Education Center • Southside Virginia Community College <p>Welding - Level 3 - National Center for Construction Education and Research (NCCER)</p> <ul style="list-style-type: none"> • Southern Virginia Higher Education Center • Southside Virginia Community College
Transportation and Material Moving Occupations	
Standard Occupational Codes Demand Occupations	Approved Related Noncredit Workforce Training Programs
<p>53-0000 Transportation and Material Moving Occupations</p> <p>533032 Heavy and Tractor-Trailer Truck Drivers</p> <p>533022 Bus Drivers, School or Special Client</p> <p>533033 Light Truck or Delivery Services Drivers</p> <p>533031 Driver/Sales Workers</p> <p>531031 First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators</p> <p>531021 First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand</p> <p>533021 Bus Drivers, Transit and Intercity</p> <p>535021 Captains, Mates, and Pilots of Water Vessels</p> <p>537021 Crane and Tower Operators</p> <p>535031 Ship Engineers</p> <p>536099 Transportation Workers, All Other</p> <p>532011 Airline Pilots, Copilots, and Flight Engineers</p> <p>532021 Air Traffic Controllers</p> <p>532031 Flight Attendants</p>	<p>Certified Logistics Associate - Manufacturing Skills Standards Council (MSSC)</p> <ul style="list-style-type: none"> • Blue Ridge Community College • Community College Workforce Alliance <p>Certified Logistics Technician - Manufacturing Skills Standards Council (MSSC)</p> <ul style="list-style-type: none"> • Community College Workforce Alliance <p>Commercial Driver's License – Class A Endorsement - Virginia Department of Motor Vehicles</p> <ul style="list-style-type: none"> • Blue Ridge Community College • Central Virginia Community College • Community College Workforce Alliance • Dabney S. Lancaster Community College • Danville Community College • Eastern Shore Community College • Germanna Community College • Lord Fairfax Community College • Mountain Empire Community College • New River Community College • Northern Virginia Community College • Patrick Henry Community College • Paul D. Camp Community College • Piedmont Virginia Community College • Rappahannock Community College • Southside Virginia Community College • Southwest Virginia Community College • Thomas Nelson Community College • Tidewater Community College • Virginia Highlands Community College • Virginia Western Community College • Wytheville Community College <p>Commercial Driver's License Class B endorsement - Virginia Department of Motor Vehicles</p>

**NEW ECONOMY WORKFORCE CREDENTIAL GRANT PROGRAM
DEMAND FIELDS AND RELATED NONCREDIT WORKFORCE TRAINING PROGRAMS/CREDENTIALS**

	<ul style="list-style-type: none">• Blue Ridge Community College• Eastern Shore Community College• Germanna Community College• Northern Virginia Community College• Patrick Henry Community College• Piedmont Virginia Community College• Southwest Virginia Community College• Tidewater Community College <p>Remote Pilot Airman – Federal Aviation Administration</p> <ul style="list-style-type: none">• Blue Ridge Community College• Piedmont Virginia Community College• Virginia Highlands Community College
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