

## **CAREER READINESS INDICATORS (Credentials/Certifications)**

Career Readiness Indicators (CRI) are credentials/certifications made available to all students enrolled in a program where career and technical skill proficiencies are aligned with industry-recognized standards. CRIs are not available for all programs at this time. The credential provides proof that the student possesses the minimum skills required for entry-level employment. CRIs will be recorded on the student's high school transcript and testing can occur at the discretion of the career and technical education LEA depending on student readiness, pre-assessments required.

**Career Readiness Indicators are made available and offered to any career and technical education student who:**

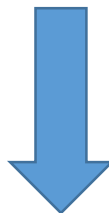
- is enrolled in a career and technical education program with sequenced courses that is aligned with a local, state, or national third-party credentialing agency to earn a program credential, certification, or license.

**The Program Teacher, Career and Technical Administrator, and local program Advisory Committee should:**

- *review* the Alabama State Department of Education (ALSDE) Career Readiness Indicators list to determine if there is an appropriate third-party credential or license available for the respective career and technical education program.
- *select* the CRI credential(s) that is best suited for the program, the students, and local industry needs.  
or
- *recommend* an alternative third-party Career Readiness Indicator for approval if it is determined, based on local labor market demands, that the students and local industry will benefit from the alternate credential.\*

\*Recommendations for new CRIs must be submitted by the local Career and Technical Administrator to Dr. Philip C. Cleveland, Director of Career and Technical Education/Workforce Development, Alabama State Department of Education. Approved new CRIs will be added and published quarterly.

**See *CLUSTERS* below for State-Approved Career Readiness Indicators that are currently available by program.**



### State-Approved Career Readiness Indicators

| <b>CLUSTER: AGRICULTURE, FOOD AND NATURAL RESOURCES</b> |   |  |
|---|---|--|
| <b>Program</b>  | <b>Stackable Credentials</b>  | <b>Career Readiness Indicators</b>   |
| 7 <sup>th</sup> /8 <sup>th</sup> Grade Agriscience      | Alabama Junior Master Gardener<br>Hazardous Occupations Safety Training in Agriculture<br>Hunter Education  | None Identified  |
| General Agriscience                                     | Alabama Junior Master Gardener<br>Artificial Insemination Technician<br>Hazardous Occupations Safety Training in Agriculture<br>Hunter Education<br>NCCER – All Modules<br>OSHA 10 hour                                     | Equipment & Engine Training Council (EETC)-Four Stroke Certification<br>Equipment & Engine Training Council (EETC)-Two Stroke Certification<br>Landscape Management Technician<br>NCCER Core<br>Urban Forestry Technician<br>Youth Beef Quality Assurance<br>Youth Pork Quality Assurance Plus |
| AgriConstruction  | Alabama Junior Master Gardener<br>Hazardous Occupations Safety Training in Agriculture<br>Hunter Education<br>NCCER – All Modules<br>OSHA 10 hour   | NCCER Core<br>NCCER Carpentry Level 1<br>NCCER Welding Level 1   |
| Power Mechanics   | Alabama Junior Master Gardener<br>Hazardous Occupations Safety Training in Agriculture<br>Hunter Education<br>NCCER – All Modules<br>OSHA 10 hour   | Briggs and Stratton Master Service Technician<br>Equipment & Engine Training Council (EETC)-Four Stroke Certification<br>Equipment & Engine Training Council (EETC)-Two Stroke Certification<br>NCCER Core   |
| Animal Systems  | Artificial Insemination Technician<br>Alabama Junior Master Gardener<br>Canine Care and Training Program<br>Hazardous Occupations Safety Training in Agriculture<br>Hunter Education<br>NCCER – All Modules<br>OSHA 10 hour | NCCER Core<br>Youth Beef Quality Assurance<br>Youth Pork Quality Assurance Plus<br>Youth Humane Equine Management  |
| Plant Systems   | Alabama Junior Master Gardener<br>Hazardous Occupations Safety Training in Agriculture<br>Hunter Education<br>NCCER – All Modules<br>OSHA 10 hour   | Landscape Design (LD) Permit<br>Landscape Management Technician<br>NCCER Core<br>Setting of Landscape Plants (SLP) Permit<br>Tree Surgery (TS) Permit<br>Urban Forestry Technician   |
| Floral Design   | NCCER – All Modules <u>and</u> OSHA 10 hour   | NCCER Core   |
| Agribusiness Systems                                    | Alabama Junior Master Gardener<br>Hazardous Occupations Safety Training in Agriculture<br>Hunter Education<br>Internet Computing Core Certification (IC <sup>3</sup> )<br>NCCER – All Modules<br>OSHA 10 hour               | NCCER Core   |
| Environmental and Natural Resources Systems             | Alabama Junior Master Gardener<br>Alabama Water Watch Credential<br>Hazardous Occupations Safety Training in Agriculture<br>Hunter Education<br>NCCER – All Modules<br>OSHA 10 hour   | NCCER Core<br>Tree Surgery (TS) Permit<br>Urban Forestry Technician  |

| <b>CLUSTER: AGRICULTURE, FOOD AND NATURAL RESOURCES (continued)</b> |   |   |
|---|---|---|
| <b>Program</b>  | <b>Stackable Credentials</b>  | <b>Career Readiness Indicators</b>  |
| Aquaculture   | Alabama Junior Master Gardener<br>Alabama Water Watch Credential<br>Hazardous Occupations Safety Training in Agriculture<br>Hunter Education<br>NCCER – All Modules<br>OSHA 10 hour | Aquaculture Training and Online Learning (ATOLL): Aquaculture or Aquaponics<br>NCCER Core |

| <b>CLUSTER: ARCHITECTURE AND CONSTRUCTION</b>            |   |   |
|--|---|---|
| <b>Program</b>   | <b>Stackable Credentials</b>  | <b>Career Readiness Indicators</b>  |
| Drafting Design Technology                               | OSHA 10 hour<br>Workforce Ready – Technical Drafting<br>Workforce Ready – Architectural Drafting<br>Certification or Degree (Postsecondary) | Autodesk-AutoCAD Certified User<br>Autodesk-Inventor Certified User<br>Autodesk-Revit Certified User<br>SolidWorks Associate<br>SolidEdge Certified Associate |
| Building Construction                                    | NCCER – All Modules<br>OSHA 10 hour<br>Workforce Ready – Carpentry<br>Certification or Degree (Postsecondary)                               | NCCER Core<br>NCCER Carpentry Level 1<br>NCCER Carpentry Level<br>NCCER Construction Technology   |
| Cabinetmaking  | NCCER – All Modules<br>OSHA 10 hour<br>Workforce Ready – Cabinetmaking<br>Certification or Degree (Postsecondary)                           | NCCER Core<br>NCCER Cabinetmaking Level 1<br>NCCER Carpentry Level 1  |
| Carpentry  | NCCER – All Modules<br>OSHA 10 hour<br>Workforce Ready – Carpentry<br>Certification or Degree (Postsecondary)                               | NCCER Core<br>NCCER Carpentry Level 1<br>NCCER Carpentry Level 1+   |
| Masonry  | NCCER – All Modules<br>OSHA 10 hour<br>Workforce Ready – Masonry<br>Certification or Degree (Postsecondary)                                 | NCCER Core<br>NCCER Masonry Level 1<br>NCCER Masonry Level 1+   |
| Electrical   | NCCER – All Modules<br>OSHA 10 hour<br>Workforce Ready – Residential Wiring<br>Certification or Degree (Postsecondary)                      | NCCER Core<br>NCCER Electrical Level 1<br>NCCER Electrical Level 1+   |
| Welding  | AWS Certifications<br>NCCER – All Modules<br>OSHA 10 hour<br>Workforce Ready – Welding<br>Certification or Degree (Postsecondary)           | NCCER Core<br>NCCER Welding Level 1<br>NCCER Welding Level 1+<br>American Welding Society (AWS)   |
| Plumbing   | NCCER – All Modules<br>OSHA 10 hour<br>Workforce Ready – Plumbing<br>Certification or Degree (Postsecondary)                                | NCCER Core<br>NCCER Plumbing Level 1 or Pipefitting Level 1<br>NCCER Plumbing Level 1+<br>NCCER Pipefitting Level 1+  |
| Heating, Ventilation, Air-Conditioning and Refrigeration | HVAC Excellence<br>NCCER – All Modules<br>OSHA 10 hour<br>Refrigerant Handling<br>Certification or Degree (Postsecondary)                   | NCCER Core<br>NCCER HVAC Level 1<br>NCCER HVAC Level 1+<br>Air Cond, Heating and Refrigeration Institute (AHRI) ICE - Residential Core<br>EPA Card            |

| <b>CLUSTER: ARTS, A/V TECHNOLOGY, AND COMMUNICATIONS</b> |  |  |
|--|--|--|
| <b>Program</b>   | <b>Stackable Credentials</b>                     | <b>Career Readiness Indicators</b>   |
| Graphic Arts   | None Identified                                  | Adobe-InDesign Certified Associate<br>Adobe-Illustrator Certified Associate<br>Adobe-Photoshop Certified Associate<br>PrintEd – Graphic Communications<br>PrintEd – Digital File Preparation & Digital File Output<br>PrintEd – Offset Press Operations/Binding and Finishing<br>PrintEd – Screen Print  |
| Television Production                                    | Workforce Ready-Television Video Production      | Adobe-Photoshop Certified Associate<br>Adobe-Premiere Pro Certified Associate<br>Apple Aperture-Certified Pro-Level One<br>Apple Final Cut-Certified Pro-Level One<br>Apple Motion-Certified Pro-Level One<br>Certified Broadcast Technologist   |
| Advertising Design                                       | Adobe PageMaker Certification<br>HTML 4.0        | Adobe-Flash Certified Associate<br>Adobe-Illustrator Certified Associate<br>Adobe-Photoshop Certified Associate<br>Adobe-Premiere Pro Certified Associate<br>Certified Internet Webmaster E-Commerce<br>Certified Internet Webmaster Enterprise Developer<br>Certified Internet Webmaster Site Designer<br>Macromedia Dreamweaver Developer<br>Macromedia Flash Designer<br>Microsoft Certified Professional + Internet (MCP + I)<br>Microsoft Certified Professional Site Building (MCP + Site Building)<br>PrintEd – Advertising Design<br>Web Communication using Adobe Dreamweaver |
| Animation  | Workforce Ready – 3D Visualization and Animation | Adobe-InDesign Certified Associate<br>Adobe-Illustrator Certified Associate<br>Adobe-Photoshop Certified Associate<br>Adobe-Premiere Pro Certified Associate<br>Autodesk-AutoCAD Certified User<br>Autodesk-Inventor Certified User<br>Autodesk-Revit Certified User<br>SolidWorks Associate<br>SolidEdge Certified Associate  |
| Commercial Photography                                   | Workforce Ready - Photography                    | Adobe-InDesign Certified Associate<br>Adobe-Illustrator Certified Associate<br>Adobe-Photoshop Certified Associate<br>Adobe-Premiere Pro Certified Associate   |

| <b>CLUSTER: BUSINESS MANAGEMENT &amp; ADMINISTRATION</b> |   |   |
|--|---|---|
| <b>Program</b>   | <b>Stackable Credentials</b>  | <b>Career Readiness Indicators</b>  |
| Business Management & Administration                     | Brainbench – Computer Literacy<br>Brainbench – MS Excel Fundamentals<br>Brainbench – MS Office Fundamentals<br>Brainbench – MS PowerPoint Fundamentals<br>Brainbench – MS Word Fundamentals<br>CATI<br>WISE Financial Literacy<br>Degree (Higher Education) | Adobe Certified Associate (ACA)<br>ASK Institute – Concepts of Entrepreneurship and Management<br>ASK Institute – Fundamental Business Concepts<br>IC <sup>3</sup><br>Microsoft Office Specialist (MOS) |

| <b>CLUSTER: EDUCATION AND TRAINING</b>           |  |  |
|--|--|--|
| <b>Program</b>                                   | <b>Stackable Credentials</b>   | <b>Career Readiness Indicators</b>   |
| Teaching and Training                            | AAFCS Pre-Professional Assessment Education Fundamentals<br>NOCTI – Education and Training<br>Degree (Higher Education)  | Alabama Educator Certification Testing Program: Basic Skills (AECTP)<br>Praxis II: Principles of Learning and Teaching: Grades K-6<br>Praxis II: Principles of Learning and Teaching: Grades 5-9<br>Praxis II: Principles of Learning and Teaching: Grades 7-12<br>ASK Institute – Concepts of Entrepreneurship and Management |
| Early Childhood Education                        | AAFCS Pre-Professional Assessment Early Childhood Education<br>AAFCS Pre-Professional Assessment Education Fundamentals<br>CPR<br>NOCTI – Early Childhood Care and Education – Basic<br>NOCTI – Early Childhood Care and Education – Advanced<br>NOCTI – Education and Training<br>Degree (Higher Education) | Child Development Associate (CDA)<br>Alabama Educator Certification Testing Program: Basic Skills (AECTP)<br>Praxis II: Principles of Learning and Teaching: Early Childhood<br>ASK Institute – Concepts of Entrepreneurship and Management  |
| Administration and Professional Support Services | AAFCS Pre-Professional Assessment Education Fundamentals<br>NOCTI – Education and Training<br>Degree (Higher Education)  | Alabama Educator Certification Testing Program: Basic Skills (AECTP)<br>ASK Institute – Concepts of Entrepreneurship and Management  |

| <b>CLUSTER: FINANCE</b>           |  |   |
|-----------------------------------|--|---|
| <b>Program</b>                    | <b>Stackable Credentials</b>   | <b>Career Readiness Indicators</b>  |
| Finance                           | Brainbench – Bookkeeping Fundamentals<br>Brainbench – Computer Literacy<br>Brainbench – Investment Concepts<br>Brainbench – MS Office Fundamentals<br>Brainbench – MS Excel Fundamentals<br>Brainbench – MS PowerPoint Fundamentals<br>Brainbench – MS Word Fundamentals<br>CATI<br>Expert Rating – Accounting Principles Test<br>Expert Rating – Retail Banking Awareness and Terminology<br>WISE Financial Literacy<br>Degree (Higher Education) | ASK Institute – Concepts of Finance<br>IC <sup>3</sup><br>Intuit® Quickbooks Certified User<br>Microsoft Office Specialist (MOS)                                      |
| National Academy of Finance (NAF) | None Identified  | ASK Institute – Concepts of Finance<br>IC <sup>3</sup><br>Intuit® Quickbooks Certified User<br>Microsoft Office Specialist (MOS)<br>National Academy of Finance (NAF) |

| <b>CLUSTER: GOVERNMENT &amp; PUBLIC ADMINISTRATION</b> |                              |                                    |
|--|------------------------------|------------------------------------|
| <b>Program</b>   | <b>Stackable Credentials</b> | <b>Career Readiness Indicators</b> |
| Air Force JROTC  | None Identified              | Air Force JROTC Certificate        |
| Army JROTC   | None Identified              | Army JROTC Certificate             |
| Marine Corp JROTC                                      | None Identified              | Marine Corp JROTC Certificate      |
| Naval JROTC  | None Identified              | Naval JROTC Certificate            |

| <b>CLUSTER: HEALTH SCIENCE</b>  |   |  |
|---------------------------------|---|--|
| <b>Program</b>                  | <b>Stackable Credentials</b>  | <b>Career Readiness Indicators</b>   |
| Health Explorations             | AED (ARC or AHA)<br>CERT<br>CPR (ARC or AHA)<br>First Aid (ARC or AHA)<br>OSHA 10 hour<br>Pet First Aid (ARC)<br>Preventing Disease Transmission-Bloodborne Pathogens (ARC or AHA)<br>Sports Safety (ARC)   | None Identified  |
| Health Science                  | AED (ARC or AHA)<br>CERT<br>Certified Personal Trainer (ACSM, NSCA, or NASM)<br>CPR (ARC or AHA)<br>First Aid (ARC or AHA)<br>OSHA 10 hour<br>Pet First Aid (ARC)<br>Preventing Disease Transmission-Bloodborne Pathogens (ARC or AHA)<br>Sports Safety (ARC) | BLS Instructor with Healthcare Provider<br>Certified Coding Associate (CCA)<br>Certified Billing and Coding Specialist (CBCS)<br>Certified Patient Care Technician (CPCT)<br>Certified Nursing Assistant (CNA)<br>Certified Electronic Health Records Specialist (CEHRS)<br>Certified Medical Administrative Assistant (CMAA)<br>Certified EKG Technician (CET)<br>Certified Pharmacy Technician (CPhT)<br>National Emergency Medical Responder (EMR)<br>National Emergency Medical Technician (EMT) |
| Project Lead The Way-Biomedical | AED (ARC or AHA)<br>CERT<br>CPR (ARC or AHA)<br>First Aid (ARC or AHA)<br>OSHA 10 hour<br>Preventing Disease Transmission-Bloodborne Pathogens (ARC or AHA)   | Certified EKG Technician (CET)   |

| <b>CLUSTER: HOSPITALITY AND TOURISM</b>   |   |  |
|---|---|--|
| <b>Program</b>                            | <b>Stackable Credentials</b>  | <b>Career Readiness Indicators</b>   |
| Hospitality & Tourism (NAF)               | None Identified   | None Identified  |
| Restaurant and Food and Beverage Services | AAFCS Pre-Professional Assessment Culinary Arts<br>ACF – Certified Junior Culinarian<br>NOCTI – Commercial Foods<br>NOCTI – Culinary Arts Prep Cook Level 1<br>NOCTI – Culinary Arts Prep Cook Level 2<br>NOCTI – Hospitality Management, Food and Beverage<br>NOCTI – Restaurant, Food and Beverage Services<br>NOCTI – Retail Commercial Baking<br>Certification or Degree (Postsecondary/Higher Education) | ProStart National Certificate of Achievement – COA (must pass the final exam for Level 1 & Level 2 and complete 400 hours of mentored work experience and then apply for credential)<br>ServSafe |

| <b>CLUSTER: HOSPITALITY AND TOURISM (continued)</b> |   |  |
|---|---|--|
| <b>Program</b>                                      | <b>Stackable Credentials</b>  | <b>Career Readiness Indicators</b>   |
| Lodging   | NOCTI – Commercial Foods<br>NOCTI – Hospitality Management, Food and Beverage<br>NOCTI – Lodging<br>NOCTI – Restaurant, Food and Beverage Services<br>Certification or Degree (Postsecondary/Higher Education)  | Certified Hospitality & Tourism Professional (must pass the final exam for Year 1 and Year 2, complete 100 hours of work experience, and then apply for credential)<br>Certified Guest Service Professional<br>Certified Front Desk Representative<br>ServSafe |
| Recreation, Travel, and Tourism                     | NOCTI – Hospitality Management-Food and Beverage<br>NOCTI – Hospitality Management-Lodging<br>NOCTI – Lodging<br>NOCTI – Recreation, Amusements & Attractions<br>NOCTI – Travel & Tourism<br>Certification or Degree (Postsecondary/Higher Education) | Certified Hospitality and Tourism Professional (must pass the final exam for Year 1 and Year 2, complete 100 hours of work experience, and then apply for credential)<br>ServSafe  |

| <b>CLUSTER: HUMAN SERVICES</b>           |  |  |
|--|--|--|
| <b>Program</b>                           | <b>Stackable Credentials</b>   | <b>Career Readiness Indicators</b>   |
| Food, Wellness, and Dietetics            | AAFCS Pre-Professional Assessment Broad Field Family and Consumer Sciences<br>AAFCS Pre-Professional Assessment Food Science Fundamentals<br>AAFCS Pre-Professional Assessment Nutrition, Food, and Wellness<br>Degree (Higher Education)  | ServSafe<br>ASK Institute – Concepts of Entrepreneurship and Management  |
| Early Childhood Development and Services | AAFCS Pre-Professional Assessment Broad Field Family and Consumer Sciences<br>AAFCS Pre-Professional Assessment, Early Childhood Education<br>CPR<br>NOCTI – Early Childhood Care & Education Basic<br>NOCTI – Early Childhood Care & Education Advanced<br>NOCTI – Early Child Development & Services<br>Certification or Degree (Postsecondary/Higher Education) | Child Development Associate - CDA<br>ServSafe<br>ASK Institute – Concepts of Entrepreneurship and Management   |
| Family Studies and Community Services    | AAFCS Pre-Professional Assessment Broad Field Family and Consumer Sciences<br>AAFCS Pre-Professional Assessment Personal and Family Finance<br>NOCTI – Family & Community Services<br>CPR<br>Degree (Higher Education)   | ServSafe<br>ASK Institute – Concepts of Entrepreneurship and Management  |
| Consumer Services                        | AAFCS Pre-Professional Assessment Broad Field Family and Consumer Sciences<br>AAFCS Pre-Professional Assessment Personal and Family Finance<br>NOCTI – Family & Community Services<br>NOCTI – Financial & Investment Planning<br>Degree (Higher Education)   | National Retail Federation – National Professional Certification in Customer Service<br>National Retail Federation – National Professional Certification in Sales<br>ASK Institute – Concepts of Entrepreneurship and Management |
| Fashion                                  | AAFCS Pre-Professional Assessment Broad Field Family and Consumer Sciences<br>AAFCS Pre-Professional Assessment Fashion, Textiles, and Apparel<br>NOCTI – Apparel & Textile Production and Merchandising<br>NOCTI – Retail Merchandising<br>Certification or Degree (Postsecondary/Higher Education)   | National Retail Federation – National Professional Certification in Customer Service<br>National Retail Federation – National Professional Certification in Sales<br>ASK Institute – Concepts of Entrepreneurship and Management |

| <b>CLUSTER: HUMAN SERVICES (continued)</b> |   |  |
|--|---|--|
| <b>Program</b>                             | <b>Stackable Credentials</b>  | <b>Career Readiness Indicators</b>   |
| Interior Design                            | AAFCS Pre-Professional Assessment Broad Field Family and Consumer Sciences<br>AAFCS Pre-Professional Assessment Housing and Furnishings<br>AAFCS Pre-Professional Assessment Interior Design Fundamentals<br>NOCTI – Interior Decorating & Design<br>Certification or Degree (Postsecondary/Higher Education) | National Retail Federation – National Professional Certification in Customer Service<br>National Retail Federation – National Professional Certification in Sales<br>ASK Institute – Concepts of Entrepreneurship and Management |
| Cosmetology                                | NOCTI – Cosmetology<br>NOCTI – Nail Specialty<br>Workforce Ready – Cosmetology<br>Workforce Ready – Nail Care<br>Certification or Degree (Postsecondary)  | Barbering Licensure<br>Barbicide: Infection Control Certification<br>Cosmetology Licensure<br>Natural Hair Styling Licensure<br>Nail Care Licensure<br>Esthetics Licensure   |

| <b>CLUSTER: INFORMATION TECHNOLOGY</b> |   |   |
|--|---|---|
| <b>Program</b>                         | <b>Stackable Credentials</b>  | <b>Career Readiness Indicators</b>  |
| Network Systems and Computer Services  | TestOut Network Pro<br>TestOut PC Pro<br>TestOut Security Pro<br>Workforce Ready Computer Maintenance Technology<br>Workforce Ready Internetworking | C-Tech Network Cabling<br>Certified Network Computer Technician<br>Cisco Certified Network Associate (CCNA)<br>CompTIA A+<br>CompTIA Network+<br>CompTIA Security+<br>CompTIA Strata IT Fundamentals<br>CompTIA Linux+ Powered by LPI<br>Electronic Technicians Association (ETA)<br>Microsoft Certified Solutions Expert (MCSE)<br>Microsoft Technology Associate (MTA) - Networking Fundamentals<br>Microsoft Technology Associate (MTA) - Security Fundamentals<br>Microsoft Technology Associate (MTA) - Windows Development Fundamentals<br>Microsoft Technology Associate (MTA) - Windows Operating System Fundamentals<br>Microsoft Technology Associate (MTA) - Windows Server Admin Fundamentals |
| Database Design                        | Workforce Ready Computer Maintenance Technology   | Certified Internet Web (CIW) - Database Design Specialist<br>Microsoft Technology Associate (MTA) - Database Administration Fundamentals<br>Oracle Certified Associate, Database  |
| Programming and Software Development   | Workforce Ready Computer Maintenance Technology   | Certified Internet Web (CIW) - JavaScript Specialist<br>Microsoft Technology Associate (MTA) - Gaming Development Fundamentals<br>Microsoft Technology Associate (MTA) - HTML5 Application Development Fundamentals<br>Microsoft Technology Associate (MTA) - Mobile Development Fundamentals<br>Microsoft Technology Associate (MTA) - .Net Fundamentals<br>Microsoft Technology Associate (MTA) - Software Development Fundamentals<br>Microsoft Technology Associate (MTA) - Web Development Fundamentals<br>Oracle Certified Associate (OCA) - Java Programmer  |



| Program                                | Stackable Credentials   | Career Readiness Indicators  |
|--|---|--|
| Emergency and Fire Management Services | AED<br>Backflow Prevention Assembly Tester<br>Basic Wild and Firefighter Training<br>Certified Fire Protection Specialist<br>Community Emergency Response Team<br>CPR<br>First Aid<br>Inspection and Testing of Water-Based Systems I<br>National Incident Management System (NIMS)<br>NOCTI – Emergency and Fire Management Services<br>NOCTI – Protective Services<br>NOCTI – Security and Protective Services<br>OSHA 10 hour<br>Wilderness and Remote First Aid | Emergency Medical Responder (EMR)<br>Certified EKG Technician (CET)<br>*National Fire Protection Agency – Standard NFPA 1001<br><br>*Note: <ul style="list-style-type: none"> <li>Standard NFPA 1001 is a pre-requisite to entrance into the 5 week bridge course at the Alabama Fire College to earn: Standard – NFPA 1001 and 1002 (Alabama standard for a paid fire fighter)</li> <li>Standard NFPA 1001 will allow a person to be hired up to a period of one year as a paid Fire Fighter; however, the 5 week bridge course must be successfully completed (NFPA 1001 and 1002) to remain employed</li> <li>160 hour course embedded into the Fire and Emergency Services curriculum</li> <li>Written examination and practical examination (must be 18 to take practical examination)</li> </ul> Minimal training standard for a structured fire fighter |
| Law Enforcement                        | NOCTI – Criminal Justice<br>NOCTI – Security and Protective Services  | None Identified  |
| Legal Services                         | NOCTI – Criminal Justice<br>NOCTI – Legal Services  | None Identified  |

**CLUSTER: MANUFACTURING**

| Program                             | Stackable Credentials  | Career Readiness Indicators  |
|-------------------------------------|--|--|
| Industrial Maintenance – E&I        | NCCER – All Modules<br>OSHA 10 hour<br>Workforce Ready – Mechatronics<br>Workforce Ready – Automated Manufacturing Technology<br>Certification or Degree (Postsecondary) | NCCER Core<br>NCCER Industrial Maintenance – E & I Level 1<br>NCCER Industrial Maintenance – E & I Level 1+  |
| Industrial Maintenance – Mechanical | NCCER – All Modules<br>OSHA 10 hour<br>Workforce Ready – Mechatronics<br>Workforce Ready – Automated Manufacturing Technology<br>Certification or Degree (Postsecondary) | NCCER Core<br>NCCER Industrial Maintenance - Mechanic Level<br>NCCER Industrial Maintenance - Mechanic Level 1+  |
| Industrial Systems and Maintenance  | NCCER – All Modules<br>OSHA 10 hour<br>Workforce Ready – Mechatronics<br>Workforce Ready – Automated Manufacturing Technology<br>Certification or Degree (Postsecondary) | NCCER Core<br>NCCER Industrial Maintenance – E & I Level 1<br>NCCER Industrial Maintenance - Mechanic Level<br>NCCER Industrial Maintenance – E & I Level 1+<br>NCCER Industrial Maintenance - Mechanic Level 1+ |
| Manufacturing                       | MSSC Modules (Manufacturing Skills Standards Council)  | NCCER Core<br>MSSC – Certified Manufacturing Technician  |

| Program             | Stackable Credentials   | Career Readiness Indicators   |
|---------------------|---|---|
| Precision Machining | OSHA 10 hour<br>Workforce Ready – CNC Milling and Turning Technology Certification or Degree (Postsecondary)                                    | NIMS Level 1 Registration<br>NIMS Level 1 Measurement, Materials & Safety<br>NIMS Level 1 Job Planning, Benchwork & Layout<br>NIMS Level 1 Manual Milling Skills I<br>NIMS Level 1 Turning Operations: Turning Between Centers<br>NIMS Level 1 Turning Operations: Turning Chucking Skills<br>NIMS Level 1 Grinding Skills I<br>NIMS Level 1 Drill Press Skills I<br>NIMS Level 1 CNC Turning: Programming Setup & Operations<br>NIMS Level 1 CNC Milling: Programming Setup & Operations<br>NIMS Level 1 CNC Turning: Operations<br>NIMS Level 1 CNC Milling: Operations |
| Electronics         | OSHA 10 hour<br>Workforce Ready – Electronics Application & Technology<br>Workforce Ready – Robotics<br>Certification or Degree (Postsecondary) | Electronics Technicians Association - Student Electronics Technician<br>Electronics Technicians Association - Basic DC<br>Electronics Technicians Association - Basic AC<br>Electronics Technicians Association - Basic Analog<br>Electronics Technicians Association - Basic Digital<br>Electronics Technicians Association - Comprehensive<br>NCCER Core<br>NCCER Electronic Systems Technician, Electronics  |

| CLUSTER: MARKETING, SALES & SERVICE |   |   |
|-------------------------------------|---|---|
| Program                             | Stackable Credential  | Career Readiness Indicators   |
| Marketing, Sales & Service          | Brainbench – Business Communication<br>Brainbench – Computer Literacy<br>Brainbench – Marketing Concepts<br>Brainbench – MS Office Fundamentals<br>CATI<br>W!SE Financial Literacy<br>Degree (Higher Education) | Adobe Certified Associate (ACA)<br>ASK Institute – Concepts of Entrepreneurship and Management<br>ASK Institute – Fundamental Marketing Concepts<br>IC <sup>3</sup><br>Microsoft Office Specialist (MOS)<br>National Retail Federation – National Professional Certification in Customer Service<br>National Retail Federation – National Professional Certification in Sales |

| CLUSTER: STEM         |   |   |
|-----------------------|---|---|
| Program               | Stackable Credential  | Career Readiness Indicators   |
| Engineering           | NOCTI – Pre-Engineering, Engineering Technology<br>Workforce Ready – Engineering Technology<br>Certification or Degree (Postsecondary/Higher Education) | Autodesk-AutoCAD Certified User<br>Autodesk-Inventor Certified User<br>Autodesk-Revit Certified User<br>SolidWorks Associate<br>SolidEdge Certified Associate |
| Aerospace Engineering | None Identified   | Autodesk-AutoCAD Certified User<br>Autodesk-Inventor Certified User<br>Autodesk-Revit Certified User<br>SolidWorks Associate<br>SolidEdge Certified Associate |

| CLUSTER: STEM (continued)   |                      |                             |
|-----------------------------|----------------------|-----------------------------|
| Program                     | Stackable Credential | Career Readiness Indicators |
| Career Cluster Technologies | None Identified      | None Identified             |

|  |                 |   |
|--|-----------------|---|
| Project Lead the Way-Engineering               | None Identified | Autodesk-AutoCAD Certified User<br>Autodesk-Inventor Certified User<br>Autodesk-Revit Certified User<br>SolidWorks Associate<br>SolidEdge Certified Associate |
| Project Lead The Way-Middle School Engineering | None Identified | None Identified   |

| <b>CLUSTER: TRANSPORTATION, DISTRIBUTION AND LOGISTICS</b> |   |  |
|--|---|--|
| <b>Program</b>   | <b>Stackable Credential</b>   | <b>Career Readiness Indicators</b>   |
| Automotive Services  | ASE Refrigerant Recovery Recycling<br>OSHA 10 hour<br>S/P2 Safety<br>Snap-on Diagnostics<br>Snap-on Multimeter<br>Snap-on Torque<br>Certification or Degree (Postsecondary) | ASE Student Maintenance and Light Repair<br>ASE Student Suspension and Steering<br>ASE Student Brakes<br>ASE Student Electrical/Electronic Systems<br>ASE Student Engine Performance<br>ASE Student Engine Repair<br>ASE Student Automatic Transmission/Transaxle<br>ASE Student Manual Drive Train and Axles<br>ASE Student Heating and Air Conditioning                            |
| Aviation Technology  | OSHA 10 hour<br>Snap-on Multimeter<br>Snap-on Torque<br>Certification or Degree (Postsecondary)   | None Identified  |
| Collision Repair   | EPA-ASR<br>ICAR PDP EE<br>OSHA 10 hour<br>S/P2 Safety<br>Certification or Degree (Postsecondary)  | ASE Student Painting and Refinishing<br>ASE Student Structural Analysis and Damage Repair<br>ASE Student Non-structural Analysis and Damage Repair<br>ASE Student Mechanical and Electrical<br>ICAR Auto Refinish Platinum<br>ICAR Intro to Collision Repair<br>ICAR Non-Structural Platinum   |
| Diesel Technology  | ASE Student<br>OSHA 10 hour<br>Snap-on Diagnostics<br>Snap-on Multimeter<br>Snap-on Torque<br>Certification or Degree (Postsecondary)                                       | ASE Student Diesel Engines<br>ASE Student Electrical/Electronic Systems<br>ASE Student Brakes<br>ASE Student Steering & Suspension   |
| Marine Technology  | OSHA 10 hour<br>Workforce Ready – Marine Service Technology<br>Certification or Degree (Postsecondary)  | None Identified  |
| Power Equipment  | Husqvarna Certification<br>OSHA 10 hour<br>Snap-on Multimeter<br>Snap-on Torque<br>Workforce Ready – Power Equipment Technology<br>Certification or Degree (Postsecondary)  | Briggs and Stratton Master Service Technician<br>Equipment Engine Training Council Two Stroke Engine<br>Equipment Engine Training Council Four Stroke Engine<br>Equipment Engine Training Council Compact Diesel Engine<br>Equipment Engine Training Council OPE Electrical<br>Equipment Engine Training Council Driveline/Hydraulics<br>Equipment Engine Training Council Generator |