



Department of
Education

Perkins V Reserve Grant

Application Announcement and Guide



February 2020

Contents

- Overview..... 3
 - Purpose 3
- Strengthening Career and Technical Education in Tennessee Priority Areas 4
 - Equitable Access 4
 - Aligned Career Pathways 5
 - High-Quality Learning Experiences 6
- Important Application, Eligibility, and Award Information..... 7
 - Critical Dates for 2020-2021 8
 - Application, Award, and Accountability Information 8
- Contact Information 9
- Appendix A: Secondary Application 10
- Appendix B: Postsecondary Application Questions 12
- Appendix C: Regional Career Pathways Application 13
- Appendix D: Allowable Site License/Instructor Certifications..... 16
- Appendix E: Allowable Student Industry Certifications 17

Overview

The *Strengthening Career and Technical Education for the 21st Century Act*, otherwise known as Perkins V, was signed into law by President Donald J. Trump on July 31, 2018. This bipartisan measure reauthorized the *Carl D. Perkins Career and Technical Education Act of 2006* and provides nearly \$1.3 billion in annual Federal funding to support CTE for our nation's youth and adults. In Tennessee, eighty-five percent (85%) of the funds made available through this Act will be awarded to local education agencies (LEAs) and postsecondary institutions as Local Funds. Of these Local Funds, fifteen percent (15%) will be awarded through a competitive grant process known as the Perkins Reserve.

Purpose

This document provides detailed information regarding how the Tennessee Department of Education (department) and Tennessee Board of Regents (TBR) will annually award Perkins Reserve funds, pursuant to Section 112(c) of Perkins V and the priorities outlined in the Strengthening Career and Technical Education in Tennessee 4-Year State Plan. Applicants should use the information in this document to develop a robust and thoughtful proposal prior to submitting an application for the Perkins V Reserve Grant (PRG).

The purpose of the PRG opportunity is to:

1. foster innovation through the identification and promotion of promising and proven career and technical education (CTE) programs, practices, and strategies, which may include programs, practices, and strategies that prepare individuals for nontraditional fields; and
2. promote the development, implementation, and adoption of programs of study or career pathways aligned with regionally identified high skill, high wage, and/or in-demand occupations or industries.

The PRG opportunity is designed to serve local education agencies and postsecondary institutions:

1. **in rural areas:** based on the NCES Locale Code eligibility requirements for Title VI of ESEA, Rural Education Initiative (Locale Code 6, 7 or 8); or
2. **with high percentages of CTE concentrators or CTE participants:** twenty-five percent (25%) or more of the total student population are identified as a CTE concentrators or a CTE participant; or,
3. **with high numbers of CTE concentrators or CTE participants:** two hundred (200) or more identified CTE concentrators or CTE participants; or,
4. **with disparities or gaps in performance among students:** as described in Section 113(b)(3)(C)(ii)(II) of Perkins V.

In Tennessee, the PRG opportunity will leverage funding to support CTE programs, practices, and strategies which prepare individuals from traditionally underrepresented student groups, including those individuals who are economically disadvantaged, and those geographic areas which are identified as economically **distressed** or **at-risk**, for high skill, high wage, and/or in-demand occupations.

Strengthening Career and Technical Education in Tennessee Priority Areas

Ensuring cohesiveness across the department's strategic plan, *Best for All*, the Tennessee Higher Education Commission's (THEC) strategic plan, and TBR's strategic plan will be critical to our collective success. With this in mind, the *Strengthening Career and Technical Education in Tennessee 4-Year State Plan* will braid these education plans together through a vision to **expand opportunities for all students to explore, choose, and follow a career pathway to success.**

If we are successful, then Tennessee will see a substantial increase in the number of students on-track to meet their career goals two-years after graduation as measured by 2- and 4-year college persistence rates, TCAT certificate attainment, military enlistment, workforce participation, and similar paths. Eligible recipients may submit PRG applications which help to achieve this vision and support the following priority areas of the *Strengthening Career and Technical Education in Tennessee State Plan*.

Equitable Access

The first priority area of the *Strengthening Career and Technical Education in Tennessee 4-Year State Plan* is to expand **equitable access** to comprehensive career exploration, specifically in early and middle grades, advisement, leadership and employability skill development through high-quality career and technical education pathways.

Applications focusing on this priority area may choose to implement one of the example practices below or develop other innovative strategies to expand equitable access for students, including in early and middle grades (5-8), to participate in CTE:

1. Support or develop a new CTE, work-based learning, or career exploration program, including in the early and middle grades (grade 5-8), which aligns to regional high skill, high wage, and/or in-demand career pathways identified through the Comprehensive Local Needs Assessment (CLNA).
2. Implement an employability skills development program such as the Work Ethics Matter framework, including in early and middle grades.
3. Establish a career and technical student organization (CTSO) leadership program or chapter, including in early and middle grades.
4. Offer a career exploration event such as CareerQuest TN or another career awareness program with industry and postsecondary partners.
5. Provide a career aptitude and interest assessment or other career and academic counseling program, including in early and middle grades, which provides information on postsecondary education and career options as part of a systematic career advisement strategy.
6. Incorporate STEM and/or STEAM educational strategies in order to provide a strong, comprehensive education program which incorporates critical thinking, creative problem-solving, project-based learning, and career exploration.

7. Support any other program related to the development of student graduation and career plans or activity that advances knowledge of career opportunities and assists students in making informed decisions about future education and employment goals, including in non-traditional fields.

Aligned Career Pathways

The second priority area of the *Strengthening Career and Technical Education in Tennessee 4-Year State Plan* is to expand participation in high-quality and vertically aligned career pathways in secondary and postsecondary which prepare students to seamlessly transition into high wage, high skill, and/or in-demand occupations.

Applications focusing on this priority area may choose to implement one of the example practices below or develop other innovative strategies to increase participation in aligned career pathways:

1. Develop new or repurpose existing CTE programs at the secondary and/or postsecondary level aligned to regional high skill, high wage, and/or in-demand career pathways identified through the Comprehensive Local Needs Assessment (CLNA).
2. Support early postsecondary opportunities or co-locate CTE programs for secondary and postsecondary (e.g. TCAT satellite on high school campus) aligned to regional high skill, high wage, and/or in-demand career pathways identified through the CLNA.
3. Purchase the appropriate equipment, technology, and instructional materials needed to prepare secondary and/or postsecondary students in all aspects of regionally identified high skill, high wage, and/or in-demand career pathways identified in the CLNA.
4. Implement strategies to recruit, train, and retain CTE educators, faculty, administrators, etc. in CTE pathways aligned to regional high skill, high wage, and/or in-demand career pathways identified through the CLNA. Including educator externships, support for secondary educators to meet postsecondary faculty requirements to expand early postsecondary opportunities, "Grow your Own" or other educator preparation, etc.
5. Support creation and implementation of high-quality CTE curriculum and instructional resources, and/or expand opportunities for students to participate in distance, blended and accelerated early postsecondary opportunities in CTE pathways aligned to regional high skill, high wage, and/or in-demand career pathways identified through the CLNA.
6. Support efforts to become a Certified Pathway through the Tennessee Pathways initiative in CTE pathways aligned to regional high-skill, high-wage, and/or in-demand career pathways identified through the CLNA.
7. Support implementation of Tennessee's Workforce Development System, the Workforce Innovation and Opportunity Act (29 U.S.C. 3101 et seq.), and other laws and initiatives that provide students with transition-to-work related services, including strategies from the Individuals with Disabilities Act, in CTE pathways aligned to regional high skill, high wage, and/or in-demand career pathways identified through the CLNA.

8. Provide CTE instruction and strategies for adults and/or out-of-school youth to support completion of secondary education or upgrade technical and employability skills in CTE pathways aligned to regional high skill, high wage, and/or in-demand career pathways identified through the CLNA.
9. Offer any other alignment strategies which eliminate barriers and prepare individuals from traditionally underrepresented groups in CTE pathways aligned to regional high-skill, high-wage, and/or in-demand career pathways identified through the CLNA.

High-Quality Learning Experiences

The third priority area of the *Strengthening Career and Technical Education in Tennessee 4-Year State Plan* is to double the number of Tennessee learners who participate in **high-quality work-based learning experiences** and attain the relevant certificates, credentials, and/or degrees needed to meet the workforce demands of Tennessee.

Applications focusing on this priority area may choose to implement one of the example practices below or develop other innovative strategies to increase participation in work-based learning (WBL) and other high-quality learning experiences leading to relevant certificates, credentials, and/or degrees:

1. Support implementation of the continuum of WBL opportunities, including but not limited to:
 - a. Support sustained interactions with industry or community professionals in workplace settings such as industry tours and job shadowing experiences aligned to the CTE program of study or career pathway.
 - b. Develop or modernize simulated work environments in a school setting such as a school-based enterprise.
 - c. Provide wrap-around student support services such as childcare and transportation for WBL placements.
 - d. Implement virtual or other electronic WBL platforms to expose students to multiple workplace environments
 - e. Establish self-contained WBL programs such as the Gestamp model in Hamilton County Schools
 - f. Offer industry certifications to WBL students which are required by the industry or community partner for placement.
 - g. Develop a youth and/or registered apprenticeship program aligned to regional high skill, high wage, and/or in-demand career pathway identified through the CLNA
2. Implement strategies to recruit, train, and retain CTE educators, faculty, administrators, etc. in CTE pathways focused on offering WBL experiences.
3. Obtain necessary instructor training and/or site accreditation needed to administer relevant department-promoted student industry certification, postsecondary credential, or degree.
Note: See **Appendix E** for Allowable Site License/Instructor Certifications
4. Cover exam costs associated with the administration of relevant department-promoted student industry certification, postsecondary credential, or degree.
Note: See **Appendix F** for department promoted student industry certifications.

5. Offer services which eliminate barriers and increase participation from traditionally underrepresented groups, including individuals who are identified as economically disadvantaged, in WBL and/or the attainment of relevant industry certificates, credentials, or postsecondary degrees.
6. Support any other program or strategy related to increasing participation in WBL and/or attainment of relevant industry certificates, credentials, or postsecondary degrees.

Important Application, Eligibility, and Award Information

There are three applications for PRG funds:

1. **Secondary Application:** This application is open to any Tennessee LEA, as defined in the Every Student Succeeds Act, serving students in grades 5-12 and meeting the Perkins V eligibility requirements.
2. **Postsecondary Application:** This application is open to any Tennessee postsecondary institution in the Tennessee Board of Regents system and meeting the Perkins V eligibility requirements.
3. **Regional Career Pathways Application:** This application must be submitted by the LEA designated as the fiscal agent for a partnership including at least one (1) Tennessee LEA, as defined in the Every Student Succeeds Act, serving students in grades 5-12 and meeting the Perkins V eligibility requirements, and at least one (1) postsecondary institution or local workforce or economic development, employer, or community partner.

Note: For the Regional Career Pathway Application, the LEA acting as the fiscal agent must also participate in the Tennessee Pathways Certification process (either in 2018-19 or 2019-20 academic years). However, the application proposal does not have to support a previously approved Certified Tennessee Pathway and funding is not dependent upon receiving the Pathways designation.

Eligible recipient LEAs and postsecondary institutions may submit or be included in up to three (3) applications to support the *Strengthening Career and Technical Education in Tennessee* State Plan priority areas. Each application will be judged independently by multiple reviewers.

Submission of an application does not guarantee funding and an applicant could be fully, partially, or not funded for any or all submitted applications. Awarded applications are only permitted to expend funds on allowable uses of funds as outlined in Section 135 of Perkins V and department or TBR guidance.

Critical Dates for 2020-2021

Please note that all application requirements must be submitted by the following stated deadlines for the application to be evaluated and considered for funding.

1. **Wednesday, April 1, 2020:** Notice of Intent to Apply is available.
2. **Tuesday, April 14, 2020:** Notice of Intent to Apply is due no later than 11:59 p.m. CT.
3. **Wednesday, April 15, 2020:** Grant applications are available.
4. **Friday, May 15, 2020:** Grant applications must be submitted no later than 11:59 p.m. CT.
5. **Friday, June 26, 2020:** Grant application decision letters are released.
6. **Wednesday, July 1, 2020 – Wednesday, June 30, 2021:** Period of funding availability.
7. **Thursday, September 30, 2021:** All reimbursement requests must be submitted.

Application, Award, and Accountability Information

Please see below for additional important application, eligibility, and award information.

Application Type	Secondary Application	Postsecondary Application	Regional Collaborative Application
Application Requirements	Notice of Intent to Apply, Application, Budget, Letters of Support. Memorandum of Understanding from any identified partners	Notice of Intent to Apply, Application, Budget, Letters of Support. Memorandum of Understanding from any identified partners	Notice of Intent to Apply, Application, Budget, Letters of Support. Memorandum of Understanding from all consortium members
Application Submission	Up to 3 submissions, ePlan	Up to 3 submissions, TBR	May be included in 3 submissions, LEA may only serve as Fiscal Agent for 1 submission, ePlan
Type of Award	Discretionary	Discretionary	Discretionary
Disbursement of Funds	Reimbursement, LEA	Reimbursement, Institution	Reimbursement, Fiscal Agent
Total Funds Available	TBD	TBD	TBD
Maximum Funds Awarded per eligible recipient	\$50,000	\$50,000	\$200,000
Estimated Awards	TBD	TBD	TBD

Matching Requirements	Not required but encouraged	Not required but encouraged	Not required but encouraged
Period of Availability	12 months July 1 – June 30	12 months July 1 – June 30 *Potential extension option (TBD)	12 months July 1 – June 30 *Potential extension option (TBD)
Reporting and Accountability	Quarterly Progress Report, Final Impact and Expenditure Report	Quarterly Progress Report, Final Impact and Expenditure Report	Quarterly Progress Report, Final Impact and Expenditure Report

Note: The department and TBR reserve the right to consult with recipients to make amendments to planned uses of funds to ensure allowability and/or refuse any reimbursement request from an awarded applicant for unapproved or unallowable expenditures.

Contact Information

For additional information regarding the PRG or implementation of the *Strengthening Career and Technical Education in Tennessee* 4-Year State plan, please contact:

For general questions:

CTE.Questions@tn.gov

For Secondary:

Tennessee Department of Education

- Steve Playl, Jr., Senior Director, College and Career Experiences; State Director
Steve.Playl@tn.gov
(615) 532-2830

For Regional Career Pathways:

Tennessee Department of Education

- Jerre Maynor, Senior Director, Articulated Pathways
Jerre.Maynor@tn.gov
(615)253-3780

For Postsecondary:

Tennessee Board of Regents

- Michael Tinsley, Assistant Vice Chancellor for Student Success
Michael.Tinsley@tbr.edu
(615) 366-3938

Appendix A: Secondary Application

Section 1: Demonstration of Need

Please provide a thorough overview of the proposed new or expansion of existing programs aligned to the *Strengthening Career and Technical Education in Tennessee 4-Year State Plan*. This should include the following essential components:

1. Title and a summary of the proposal or project for which the application is seeking funding.
2. Specifically identify which *Strengthening Career and Technical Education in Tennessee* priority area the application is addressing and outline how the proposal's measurable objectives and goals support the priority area.
3. Data justifying the need for funding. Example sources of data to consider:
 - a. LEA, school, and student level data provided by the department
 - b. Data and analysis captured in the LEA's Comprehensive Local Needs Assessment
 - c. Data and analysis captured in the LEA's Certified Tennessee Pathways application(s)
 - d. THEC labor supply and demand report
 - e. Tennessee Department of Labor and Workforce Development (TNLWD) information available at Jobs4TN
 - f. Data provided by the Tennessee Department of Economic and Community Development's (TNECD Center for Economic Research in Tennessee (CERT) such as the LEAP Occupational Analysis or TNECD County Profile Tool)
4. Clearly identify how the application will support students in:
 - a. rural areas; or,
 - b. areas with high percentages of CTE concentrators or CTE participants; or,
 - c. areas with high numbers of CTE concentrators or CTE participants; or,
 - d. disparities or gaps in student performance.
5. Clearly identify how the application meets the intended purpose of the PRG by:
 - e. fostering innovation through the identification and promotion of promising and proven CTE programs, practices, and strategies, which may include programs, practices, and strategies that prepare individuals for nontraditional fields; and/or
 - f. promotes the development, implementation, and adoption of programs of study or career pathways aligned with regionally identified high skill, high wage, and/or in-demand occupations or industries.

Section 2: Proposal Plan

Please provide a detailed description of the proposed project. This should include the following essential components:

1. Detailed overview of planned activities, actions, and planned expenditures of the proposal.
2. Detailed project plan with measurable objectives and month-by-month timeline for the proposal.
3. Completed Budget section in ePlan with clear alignment between funding request and grant activities.

Note: Matching funds are not required but will strengthen the application.

Section 3: Partnerships

Please provide an overview of any partnerships which will be leveraged to achieve the outlined measurable objectives and goals. This should include the following essential components:

1. Detailed description of any identified partnerships which will be leveraged to achieve the proposed measurable objectives and goals.
2. Letters of support for the proposal from identified partnerships.
3. Memorandum of Understanding outlining the partnership and specific roles and tasks of the partnership from identified partners.

Section 4: Sustainability Plan

Please provide any commitments or plans for sustaining the proposal's activities beyond the period of availability. This should include the following essential components:

1. Detailed plans for financial sustainability beyond the period of availability.
2. Detailed plans for maintaining partnerships among any identified partners.

Section 5: Economic Status Acknowledgement

Each year, the Appalachian Regional Commission (ARC) prepares an index of county economic status for every county in the United States. Economic status designations are identified through a composite measure of each county's three-year average unemployment rate, per capita market income, and poverty rate. Based on these indicators, each county is then categorized as distressed, at-risk, transitional, competitive or attainment.

Tennessee has a long-term objective of having no distressed counties by 2025. To assist in attaining this state goal, proposals that serve counties designated as **distressed** or **at-risk** will automatically receive points acknowledging the economic status of that area. Points will be awarded based on the county's economic status designation as of July 1, 2019. You may view the TNECD County Economic Status Map – [here](#).

1. Please indicate and acknowledge the economic status of the county for which the proposal will directly impact.

Appendix B: Postsecondary Application Questions

For additional information regarding the Postsecondary PRG, including Postsecondary Application Questions, please contact:

Tennessee Board of Regents

- Michael Tinsley, Assistant Vice Chancellor for Student Success
Michael.Tinsley@tbr.edu
(615) 366-3938

Appendix C: Regional Career Pathways Application

Section 1: Demonstration of Need

Please provide a thorough overview of the proposed new program or expansion of existing programs aligned to the *Strengthening Career and Technical Education in Tennessee 4-Year State Plan*. This should include the following essential components:

1. Title and a summary of the proposal or project for which the application is seeking funding.
2. Specifically identify which *Strengthening Career and Technical Education in Tennessee* priority area the application is addressing and outline how the proposal's measurable objectives and goals support the priority area.
 - a. **Co-location of secondary and postsecondary training opportunities.** Co-location of secondary and postsecondary training opportunities (e.g., middle colleges, combined industry and higher education sites, etc.) reduce physical and logistical barriers for students such as transportation, opportunity costs, and access to postsecondary training. Co-location efforts may align to both the Equitable Access and Aligned Career Pathways priorities.
 - b. **Family and community engagement.** Educating families is a critical component of expanding access to high-quality postsecondary training and career options, especially for historically disadvantaged communities. Students and their families need information, exposure, and advisement in order to make an informed decision about the pathway(s) that are best for the student. Proposals aligned to the Equitable Access and Aligned Career Pathways priorities are expected to include plans for family and community engagement.
 - c. **Financial support for teacher qualifications, training, or credits.** In order to increase the number of teachers qualified to serve as adjunct faculty or teach specific EPSOs (e.g. Advanced Placement or dual enrollment courses). By increasing the pool of teachers qualified to teach EPSOs, districts can expand student access to EPSOs aligned to their career pathways. Supporting teacher qualifications may align to the Equitable Access and Aligned Career Pathways priorities.
 - d. **Regional workforce coordination.** Strongly aligned career pathways benefit both students and regional employer partners. Intentional coordination among districts and local employers, chambers of commerce, and/or other community-based organizations can expand student opportunities and improve workforce pipelines. Regional workforce coordination may align to the Equitable Access, Aligned Career Pathways, or the Work-based learning priorities.
3. Data justifying the need for funding. Example sources of data to consider:
 - a. LEA, school, and student level data provided by the department
 - b. Data and analysis captured in the LEA's Comprehensive Local Needs Assessment
 - c. Data and analysis captured in the LEA's Certified Tennessee Pathways application(s)
 - d. THEC labor supply and demand report
 - e. Tennessee Department of Labor and Workforce Development (TNLWD) information available at Jobs4TN

- f. Data provided by the Tennessee Department of Economic and Community Development's (TNECD Center for Economic Research in Tennessee (CERT) such as the LEAP Occupational Analysis or TNECD County Profile Tool)
4. Clearly identify how the application will support students in:
 - a. rural areas; or,
 - b. areas with high percentages of CTE concentrators or CTE participants; or,
 - c. areas with high numbers of CTE concentrators or CTE participants; or,
 - d. disparities or gaps in student performance.
5. Clearly identify how the application meets the intended purpose of the PRG by:
 - a. fostering innovation through the identification and promotion of promising and proven CTE programs, practices, and strategies, which may include programs, practices, and strategies that prepare individuals for nontraditional fields; and/or
 - b. promotes the development, implementation, and adoption of programs of study or career pathways aligned with regionally identified high skill, high wage, and/or in-demand occupations or industries.

Section 2: Proposal Plan

Please provide a detailed description of the proposed project. This should include the following essential components:

1. Identification of the LEA who will serve as the Fiscal Agent for the proposal.
2. Indication as to what aligned career pathways the LEA has submitted for consideration as Certified TN Pathways.
3. Address what population is being served and how the plan addresses current or historical inequities.
4. Description of the barriers to full access and participation that are being removed by this plan.
5. Detailed project plan and month-by-month timeline, including actions, activities and measurable objectives for the project.
6. Clear description of the intended outcomes of the proposal in order to define what the results of successful implementation would be. (Use "If...,then" statements to create your theory of action: e.g., "If we support two teachers in meeting the qualifications to serve as adjunct faculty for TCAT, then we will be able to offer four more EPSOs, increasing access for 100 students.")
7. Completed Budget section in ePlan with clear alignment between funding request and grant activities.

Note: Matching funds are not required but will strengthen the application.

Section 3: Partnerships

Please provide an overview of all external partnerships included in the regional career pathway(s) which will be leveraged to achieve the outlined measurable objectives and goals. This should include the following essential components:

1. Detailed description of all external partnerships which will be leveraged to achieve the proposed measurable objectives and goals and a lead contact for each identified partner.
2. Grant-specific letters of support for the proposal from all identified external partnerships. These letters should be as specific to the grant proposal as possible.
3. Memorandum of Understanding outlining the partnership and specific roles and tasks of the partnership from all identified external partnerships.

Note: This application must include at least one (1) Tennessee LEA, as defined in the Every Student Succeeds Act, serving students in grades 5-12 and meeting the Perkins V eligibility requirements, and at least one (1) postsecondary institution or local workforce or economic development, employer, or community partner.

Section 4: Sustainability Plan

Please provide any commitments or plans for sustaining the proposal's activities beyond the period of availability. This should include the following essential components:

1. Detailed plans for financial sustainability beyond the period of availability.
2. Detailed plans for maintaining partnerships among all identified partners.

Section 5: Economic Status and Tennessee Pathways Certification Acknowledgement

Each year, the Appalachian Regional Commission (ARC) prepares an index of county economic status for every county in the United States. Economic status designations are identified through a composite measure of each county's three-year average unemployment rate, per capita market income, and poverty rate. Based on these indicators, each county is then categorized as distressed, at-risk, transitional, competitive or attainment.

Tennessee has a long-term objective of having no distressed counties by 2025. To assist in attaining this state goal, proposals that serve counties designated as **distressed** or **at-risk** will automatically receive points acknowledging the economic status of that area. Points will be awarded based on the county's economic status designation as of July 1, 2019. You may view the TNECD County Economic Status Map – [here](#).

1. Please indicate and acknowledge the economic status of the county for which the proposal will directly impact.

Note: Additional points will only be awarded once to the application based on the most economically disadvantaged county being served by the proposal.

The Regional Career Pathways applications do not have to support a previously certified Tennessee Pathway. However, the department will prioritize applications from LEAs who participate in the Tennessee Pathways Certification process and seek the designation.

2. Please indicate and acknowledge the status of the Tennessee Pathways Certification application for the LEA serving as the Fiscal Agent.

Appendix D: Allowable Site License/Instructor Certifications

Note: Appendix E: Allowable Site License/Instructor Certifications is the current department promoted list of student industry certifications. This document will not be updated to include additions to the department promoted list during the 2020-21 PRG period of availability. However, an awarded recipient may submit an application revision request to include any additions to this list. All application revision requests must be reviewed and approved by the department prior to expending funds.

Certification	Aligned Program(s) of Study	Career Cluster(s)	Teacher Certification or Testing Site
Level I Siemens Certified Mechatronic Systems Assistant	Mechatronics	Advanced Manufacturing	Teacher Certification with appropriate endorsements
Production Certification (CPT)	Machining Technology	Advanced Manufacturing	Teacher Certification with appropriate endorsements
American Welding Society Certified Welder	Welding	Advanced Manufacturing	Testing Site
Microsoft Office Specialist (MOS) - All 5 Exams	Office Management	Business Management & Administration	Teacher Certification with appropriate endorsements and Testing Site
Microsoft Office Specialist (Excel)	Office Management	Business Management & Administration	Teacher Certification with appropriate endorsements and Testing Site
Microsoft Office Specialist (PowerPoint)	Office Management	Business Management & Administration	Teacher Certification with appropriate endorsements and Testing Site
Microsoft Office Specialist (Word)	Office Management	Business Management & Administration	Teacher Certification with appropriate endorsements and Testing Site
Certified Nursing Assistant	Therapeutic Nursing Services	Health Science	Testing Site
CCNA Cisco Certified Network Associate	Networking Systems	Information Technology	Testing Site
Cisco Certified Entry Network Tech (CCENT)	Networking Systems	Information Technology	Testing Site
CompTIA A+	All Information Technology POS	Information Technology	Testing Site
CompTIA Network+	Networking Systems	Information Technology	Testing Site
CompTIA IT Fundamentals	All Information Technology POS	Information Technology	Testing Site

Appendix E: Allowable Student Industry Certifications

Note: Appendix F: Allowable Student Industry Certifications is the current department promoted list of student industry certifications. This document will not be updated to include additions to the department promoted list during the 2020-21 PRG period of availability. However, an awarded recipient may submit an application revision request to include any additions to the department promoted list. All application revision requests must be reviewed and approved by the department prior to expending funds.

Certification	Aligned Course	Program(s) of Study	Career Cluster(s)
Level I Siemens Certified Mechatronic Systems Assistant	Mechatronics II	Mechatronics	Advanced Manufacturing
Machining Level I - Measurement, Materials, and Safety Certification (NIMS)	Principles of Manufacturing	Machining Technology, Electromechanical Technology, Mechatronics, Welding	Advanced Manufacturing
Production Certification (CPT)	Principles of Machining, Introduction to Electromechanical	Machining Technology & Electromechanical Technology	Advanced Manufacturing
AWS SENSE Entry Level Welder	Welding I	Welding	Advanced Manufacturing
AWS SENSE Advanced Level Welder	Welding II	Welding	Advanced Manufacturing
American Welding Society Certified Welder	Welding II	Welding	Advanced Manufacturing
NCCER Core Curriculum	Welding I	Welding	Advanced Manufacturing
OSHA 10	Principles of Manufacturing	Machining Technology, Electromechanical Technology, Mechatronics, Welding	Advanced Manufacturing
OSHA 30 General Industry	Any Level 3 or 4 Advanced Manufacturing course	Machining Technology, Electromechanical Technology, Mechatronics, Welding	Advanced Manufacturing
Precision Measurement Instruments Certification (Includes all subtests)	Principles of Manufacturing	Machining Technology, Electromechanical Technology, Mechatronics, Welding	Advanced Manufacturing
FANUC	Robotics & Automated Systems	Mechatronics	Advanced Manufacturing
Tennessee Specific Industry Certification- Animal Science	Veterinary Science	Veterinary and Animal Science	Agriculture, Food, & Natural Resources
Commercial Pesticide Certification – Core (03) (Note: Must be 18 years old)	Landscaping and Turf Science	Horticulture Science	Agriculture, Food, & Natural Resources

Precision Measurement Instruments Certification (Includes all subtests)	Principles of Agricultural Mechanics	Agricultural Engineering & Applied Technologies	Agriculture, Food, & Natural Resources
OSHA 10	Agriscience	All Agriculture, Food, & Natural Resources programs of study	Agriculture, Food, & Natural Resources
OSHA 30 General Industry	Any Level 3 or 4 Agriculture course	All Agriculture, Food, & Natural Resources programs of study	Agriculture, Food, & Natural Resources
Briggs and Stratton Basic Small Engine Certification	Agricultural Power and Equipment	Agricultural Engineering & Applied Technologies	Agriculture, Food, & Natural Resources
Briggs and Stratton Master Service Technician	Agricultural and Biosystems Engineering	Agricultural Engineering & Applied Technologies	Agriculture, Food, & Natural Resources
Tennessee Specific Industry Certification-Horticulture	Landscaping and Turf Science	Horticulture Science	Agriculture, Food, & Natural Resources
HVAC Excellence, Heating, Electrical, Air Conditioning Technology (H.E.A.T.)	HVAC	Mechanical, Electrical, & Plumbing (MEP) Systems	Architecture & Construction
HVAC Excellence Employment Ready Certifications	HVAC	Mechanical, Electrical, & Plumbing (MEP) Systems	Architecture & Construction
Universal R-410A	HVAC	Mechanical, Electrical, & Plumbing (MEP) Systems	Architecture & Construction
EPA Section 608 Universal	HVAC	Mechanical, Electrical, & Plumbing (MEP) Systems	Architecture & Construction
NCCER Core Curriculum	Fundamentals of Construction	Residential & Commercial Construction, Structural Systems, Mechanical, Electrical, & Plumbing (MEP) Systems	Architecture & Construction
NCCER Carpentry Level One	Structural Systems I	Structural Systems	Architecture & Construction
NCCER Carpentry Level Two	Structural Systems II	Structural Systems	Architecture & Construction
NCCER Construction Technology	Residential & Commercial Construction I	Residential & Commercial Construction	Architecture & Construction
NCCER Electrical Level One	Electrical Systems	Mechanical, Electrical, & Plumbing (MEP) Systems	Architecture & Construction
NCCER Plumbing Level One	Plumbing Systems	Mechanical, Electrical, & Plumbing (MEP) Systems	Architecture & Construction
OSHA 10	Fundamentals of Construction	Residential & Commercial Construction Structural Systems Mechanical, Electrical, & Plumbing (MEP) Systems	Architecture & Construction
OSHA 30 Construction	Residential & Commercial Construction II, Structural Systems II, Electrical Systems	Residential & Commercial Construction Structural Systems Mechanical, Electrical, & Plumbing (MEP) Systems	Architecture & Construction
Precision Measurement Instruments Certification (Includes all subtests)	Structural Systems I	Structural Systems	Architecture & Construction

Precision Measurement Instruments Certification (Includes all subtests)	MEP Systems	Mechanical, Electrical, & Plumbing (MEP) Systems	Architecture & Construction
Certified Solidworks Associate	Architectural & Engineering Design III	Architecture & Engineering Design	Architecture & Construction
AutoCAD	Architectural & Engineering Design III	Architecture & Engineering Design	Architecture & Construction
Adobe Certified Associate	Digital Arts & Design III	Digital Arts & Design	Arts & A/V
Microsoft Office Specialist (Excel)	Advanced Computer Applications	Office Management	Business Management & Administration
Microsoft Office Specialist (PowerPoint)	Advanced Computer Applications	Office Management	Business Management & Administration
Microsoft Office Specialist (Word)	Advanced Computer Applications	Office Management	Business Management & Administration
Microsoft Office Expert (pass the two-part Expert Exam in Excel)	Advanced Computer Applications	Office Management	Business Management & Administration
Microsoft Office Expert (pass the two-part Expert Exam in Word)	Advanced Computer Applications	Office Management	Business Management & Administration
Microsoft Office Master - Track 1 (Word Expert + Excel Core + Elective)	Advanced Computer Applications	Office Management	Business Management & Administration
Microsoft Office Master - Track 2 (Excel Expert + Word Core + Elective)	Advanced Computer Applications	Office Management	Business Management & Administration
Microsoft Office Master - Track 3 (Word Expert + Excel Expert)	Advanced Computer Applications	Office Management	Business Management & Administration
G Suite Certification (Google Suite)	Business Management	Office Management, Business Management, Human Resource Management, Health Services Administration	Business Management & Administration
CDA - Child Development Associate	Early Childhood Education Careers (ECEC) III	Childhood Development Services	Education & Training
Intuit QuickBooks Certified User	Accounting II	Accounting	Finance
Certified EKG Technician	Cardiovascular Services	Diagnostic Services	Health Science
Certified Nursing Assistant	Nursing Education	Therapeutic Nursing Services	Health Science
Certified Pharmacy Technician	Pharmacological Science	Therapeutic Clinical Services	Health Science
Emergency Medical Responder (First Responder)	Emergency Medical Services	Emergency Services	Health Science
Certified Clinical Medical Assistant	Medical Therapeutics (5999) followed by Clinical Internship	Therapeutic Clinical Services	Health Science

Certified Personal Trainer	Exercise Science (6170) followed by Clinical Internship	Clinical Exercise Physiology	Health Science
Certified Patient Care Technician	Therapeutic Services	Therapeutic Services	Health Science
National Entry Level Dental Assistant	Therapeutic Services	Therapeutic Services	Health Science
OSHA 10	Health Science	All Health Science programs of study	Health Science
OSHA 30 General Industry	Any Level 3 or Level 4 Health Science course	All Health Science programs of study	Health Science
ServSafe Food Manager	Culinary Arts III	Culinary Arts	Hospitality & Tourism
Certified Fundamentals Cook (CFC)	Culinary Arts IV	Culinary Arts	Hospitality & Tourism
Certified Hospitality & Tourism Professional	Hospitality Management	Hospitality & Tourism Management	Hospitality & Tourism
TN Board of Cosmetology & Barbering - TN Master Barber 1010	Barbering III	Barbering	Human Services
TN Board of Cosmetology & Barbering - TN Cosmetology 1010	Cosmetology IV	Cosmetology	Human Services
Tennessee Specific Industry Certification- Dietetics & Nutrition	Nutrition Science & Diet Therapy	Dietetics & Nutrition	Human Services
Tennessee Specific Industry Certification- Social Health Services	Family Studies	Social Health Sciences	Human Services
CCNA Cisco Certified Network Associate	Networking	Networking Systems	Information Technology
Cisco Certified Entry Network Tech (CCENT)	Computer Systems	Networking Systems	Information Technology
CompTIA A+	Computer Systems, Cybersecurity I	Networking Systems, Cybersecurity	Information Technology
CompTIA Network+	Networking, Cybersecurity II	Networking Systems, Cybersecurity	Information Technology
CompTIA IT Fundamentals	Computer Science Foundations	Coding, Networking Systems, Web Design, Cybersecurity	Information Technology
CIW Web Design Specialist	Web Site Development	Web Design	Information Technology
CompTIA Security +	Cybersecurity Practicum	Cybersecurity	Information Technology
Microsoft Technology Associate Software Development Fundamentals	Coding II	Coding	Information Technology
Associate of ISC2 (Note: Teacher must be ISC2 certified.)	Cybersecurity Practicum	Cybersecurity	Information Technology
Microsoft Technology Associate Infrastructure	Networking	Networking Systems	Information Technology

Cisco IT Essentials PC Hardware & Software Certification	Networking	Networking Systems	Information Technology
CIW Web Foundation	Coding II, Web Site Development	Coding, Web Site Design	Information Technology
JavaScript Specialist	Coding II, Web Site Development	Coding, Web Site Design	Information Technology
Advanced HTML5/CSS3	Coding II, Web Site Development	Coding, Web Site Design	Information Technology
Hootsuite Platform Certification	Marketing and Management II: Advanced Strategies	Marketing Management	Marketing
Hootsuite Social Media Certification	Marketing and Management II: Advanced Strategies	Marketing Management	Marketing
Certified Logistics Technician	Supply Chain Management I	Supply Chain Management	Marketing
Microsoft Office Specialist (Excel)	Foundations of Supply Chain Management	Supply Chain Management	Marketing
Certified Solidworks Associate (CSWA) - Academic	STEM III; Engineering Design II; Robotics & Automated Systems, BioSTEM II, BioSTEM III, BioSTEM Practicum	Advanced STEM Applications, Engineering, Technology, BioSTEM	STEM
Autodesk Inventor Certified User	Engineering Design I, Digital Electronics, STEM II: Applications, BioSTEM II, BioSTEM III, BioSTEM Practicum	Engineering, Technology, and Advanced STEM Applications, BioSTEM	STEM
FANUC	Robotics & Automated Systems	Technology	STEM
Precision Measurement Instruments Certification (Includes all subtests)	Principles of Engineering & Technology, STEM I: Foundation, BioSTEM I	Engineering, Technology, Advanced STEM Applications, BioSTEM	STEM
I-CAR Refinish Technician ProLevel 1 or I-CAR Non-Structural Technician ProLevel 1	Collision Repair: Non-structural	Automotive Collision Repair	Transportation, Distribution, & Logistics
Automotive Service Excellence Student Certification: Maintenance & Light Repair Certification	Maintenance & Light Repair IV	Automotive Maintenance and Light Repair	Transportation, Distribution, & Logistics

Automotive Service Excellence Student Certification: Painting and Refinishing	Collision Repair: Painting & Refinishing	Automotive Collision Repair	Transportation, Distribution, & Logistics
Automotive Service Excellence Student Certification: Nonstructural Analysis/Repair	Collision Repair: Non-structural	Automotive Collision Repair	Transportation, Distribution, & Logistics
Automotive Service Excellence Student Certification: Structural Analysis/Repair	Collision Repair: Structural	Automotive Collision Repair	Transportation, Distribution, & Logistics
Precision Measurement Instruments Certification (Includes all subtests)	Maintenance & Light Repair III	Maintenance & Light Repair	Transportation, Distribution, & Logistics