

Technical Skills Assessments (TSAs) and MSIP-5 Industry Recognized Credentials (IRCs)

This document is intended to provide further guidance to schools as they identify Technical Skills Attainment (TSA) assessments and Industry Recognized Credentials (IRC) that best meet the needs of their students. Although TSAs are no longer a Perkins grant requirement, schools may wish to continue using them for program improvement purposes. IRCs, in this context, are intended for use with secondary students and for school districts interested in addressing MSIP-5, College and Career Readiness Standard 3, Indicator 4. Beginning with the class of 2021, students interested in earning the Career and Technical Education (CTE) Certificate must pass either a TSA or IRC.

Industry Recognized Credential (IRC) for MSIP-5: A portable, recognized credential that validates an individual has successfully demonstrated skill competencies in a core set of content and performance standards in a specific set of work-related tasks, single occupational area, or a cluster of related occupational areas. A student does not have to be a concentrator to take an IRC.

- Please refer to the MSIP-5 current [Comprehensive Guide to the Missouri School Improvement Program \(2019\)](#) for clarification on Performance Standard 3, Indicator 4 (College and Career Readiness).
- [MOSIS Code Sets](#)

Technical Skill Attainment (TSA) assessments are not required for Perkins V. A TSA measures skill proficiency of CTE students who have completed an approved CTE program. A TSA is not intended to be taken after every class. Many schools choose to continue to use TSAs as a program improvement measure. Several assessments that had temporarily been on the MSIP-5 IRC approved list were removed in 2015. Those assessments will remain on the approved TSA list.

The CTE Advisory Council adopted the IRC Review Committee's working definition of a stackable credential in October, 2019 as "A series of aligned, recognized, preferred, and/or required credentials (stackable) within an industry or sector that support an individual's ability to obtain related, career employment." **Stackable credentials have been identified, and are included in this document, for use during the 2020-2021 school year.** Beginning in school year 2020-2021, earning two stackable credentials will equate to earning an IRC.

Please note clarification statements as some IRCs require both a knowledge and performance assessment. TSAs, IRCs and stackable credentials that are listed under a career cluster may be appropriate for other career clusters. However, schools should contact their CTE Program Director to be sure the assessment is appropriate for the approved program.

The TSA/IRC list has been aligned to the [American Council on Education \(ACE\)](#) post-secondary credit review. School Districts must contact ACE and the appropriate institution to determine costs and specific procedures to follow for the transcription of post-secondary credit. Schools may also request a curriculum review from ACE to determine if a particular course is recommended for credit.

School districts will have an opportunity to request that additional IRCs be added, removed, or clarification statements be revised on the IRC list during the spring IRC application window.

General Assessment Eligible for Perkins V Funding

Assessment	ACE College Credit Recommendation	TSA	DESE Recognized Credential	Clarification/Reporting Criteria IRC	IRC Code
ACT WorkKeys		✓		ACT WorkKeys is not considered an IRC, but districts could use it as a TSA for program improvement purposes.	

Agriculture, Food and Natural Resources

Assessment	ACE College Credit Recommendation	Perkins TSA	Clarification/Reporting Criteria TSA	DESE Recognized Credential	Clarification/Reporting Criteria IRC (Effective FY2016)	IRC Code
MO Agriculture Skill & Knowledge Assessment MOASK Host Site Agreement		✓		✓		AGSK
Agriculture Biotechnology - NOCTI		✓				
Agricultural Mechanics - NOCTI		✓				
Animal Systems - NOCTI		✓				
Conservation -- NOCTI		✓				
Floricultural NOCTI		✓				
Floriculture-Greenhouse (NOCTI)		✓				
Forest Products & Processing - NOCTI		✓				
Horticulture - Landscaping -- NOCTI		✓				

Natural Resource Systems -- NOCTI		✓				
Production Agriculture – NOCTI		✓				
Small Animal Science & Technology -- NOCTI		✓				
Veterinary Assistant – Animal Care Technologies		✓		✓		AGVET

Architecture and Construction

Assessment	ACE College Credit Recommendation	Perkins TSA	Clarification/Reporting Criteria TSA	DESE Recognized Credential	Clarification/Reporting Criteria IRC (Effective FY2016)	IRC Code
Air Conditioning Certification – HVAC Excellence		✓		✓		HVAC
American Design Drafting Association- (ADDA)		✓		✓		ADDA
Architectural Drafting – SkillsUSA		✓				
Autodesk Certified User <ul style="list-style-type: none"> • AutoCad • 3dsMax • Maya • Fusion 360 • Revit Architecture • Inventor 		✓		✓	Student must pass three of the six assessments listed to have earned the IRC.	ACU
Autodesk Professional Certification (Certified Professional) assessments: <ul style="list-style-type: none"> • AutoCAD Certified Professional 		✓		✓	Student must pass one Autodesk Professional Certification--Certified Professional assessment in the appropriate instructional area to have earned the IRC.	ACP

<ul style="list-style-type: none"> • Revit Architecture Certified Professional • Revit Structure Certified Professional • Revit MEP Certified Professional: Mechanical • Revit MEP Certified Professional: Electrical • Inventor Certified Professional; • 3ds Max Certified Professional; • Maya Certified Professional 						
AutoCAD – Brainbench		✓				
Building Construction Occupations – NOCTI		✓				
Building Trades Maintenance – NOCTI		✓				
Cabinetmaking –NOCTI		✓				
Cabinetmaking – WoodLINKS USA		✓				
CAD - NOCTI		✓				
Carpentry Career Connections To schedule the exam, schools should contact: R. J. Catizon, Instructor rcatizon@cjtf.org 314-457-8300 Ext. 5663 or 314-337-8399 (cell) St Louis Carpenters Joint Apprenticeship Program 8300 Valcour Avenue		✓	Student must pass Career Connections Level 1 and/or Level 2 exam.	✓	Student must pass the Career Connections Level 2 or above exam.	CCC

St Louis MO 63123						
Carpentry—NCCER Please contact Cathy Tyler (386-518-6949) or at Ctyler@nccer.org with NCCER to set up your program and to purchase the NCCER exam.		✓		✓	Carpentry Level One	NCCER-CARP
Carpentry Basic --NOCTI		✓				
Carpentry - NOCTI		✓				
Carpentry - SkillsUSA		✓				
Carpentry - PACT		✓		✓		PACT
Certified Production Technician		✓		✓	New for the 2020-21 School year	Approved for June 2021 reporting; code to be determined
Construction - Ramsay Corporation		✓				
Construction Masonry - Block laying option - NOCTI		✓				
Construction Masonry - Bricklaying option - NOCTI		✓				
Construction Masonry - Stone option - NOCTI		✓				
Technical Drafting - NOCTI		✓				

Drafting – SkillsUSA		✓				
Electrical Construction Wiring (Residential Wiring)-- SkillsUSA		✓				
HVAC—NC3 Trane Residential OR HVAC—NC3 Trane Commercial HVAC/Building Automation Systems		✓	Student earns TSA if NC3 Trane residential OR commercial/building automation systems is passed.	✓	Student earns the IRC when both the NC3 Trane residential AND the commercial/building automation systems assessment is passed.	HVAC-NC3
HVAC—NCCER Please contact Cathy Tyler (386-518-6949) or at Ktyler@nccer.org with NCCER to set up your program and to purchase the NCCER exam.		✓		✓		NCCER-HVAC
HVAC – NOCTI		✓				
HVAC/R – NOCTI		✓				
Industrial Maintenance Mechanics– NOCTI		✓				
Masonry—NCCER Please contact Cathy Tyler (386-518-6949) or at Ctyler@nccer.org with NCCER to set up your program and to purchase the NCCER exam.		✓		✓		NCCER-MAS

Masonry – SkillsUSA		✓				
Construction—NCCER Please contact Cathy Tyler (386-518-6949) or at Ktyler@nccer.org with NCCER to set up your program and to purchase the NCCER exam.		✓		✓		NCCER-CNST
Plumbing – NOCTI		✓				
Plumbing – SkillsUSA		✓				

Arts, A/V Technology and Communications

Assessment	ACE College Credit Recommendation	Perkins TSA	Clarification/ Reporting Criteria TSA	DESE Recognized Credential	Clarification/Reporting Criteria IRC (Effective FY2016)	IRC Code
3-D Visualization and Animation – SkillsUSA		✓				
Adobe Certified Associate <ul style="list-style-type: none"> • Adobe Photoshop • Adobe Flash Professional • Adobe Illustrator • Adobe Dreamweaver • Adobe Premier • Adobe InDesign 	✓	✓	Students must pass two ACA assessments to earn the TSA.	✓	Students must earn three Adobe Certified Associate (ACA) certifications to earn the ACA Specialist credential—and to have passed the IRC. Schools should refer to the Certiport website for specific information on the ACAs associated with a specific ACA Specialist credential.	Adobe CAC

Audio-Radio Production – SkillsUSA		✓				
Audio-Visual Communications – NOCTI		✓				
Broadcasting and Journalism – NOCTI		✓				
Final Cut Certified Pro		✓		✓		FCCP
Graphic Communications – PrintED		✓	The name/branding of this assessment changed in FY16 to SkillsUSA/PrintED. The content of the assessment did not change.	✓	The name/branding of this assessment changed in FY16 to Graphic Communications (PrintED co-brand) The content of the assessment did not change. This assessment continues to be an IRC.	GCOM-SUSA
Graphic Production Technology – NOCTI		✓				
Performing Arts – NOCTI		✓				
Photography – SkillsUSA		✓				
PrintEd Graphic Design		✓				
PrintED/SkillsUSA Advertising Design		✓		✓		GCOM-SUSA
Screen Printing Technology – SkillsUSA		✓				
Television Production – NOCTI		✓				
Television (Video) Production – SkillsUSA		✓				
Visual Arts – NOCTI		✓				
Visual Communication and Multimedia Design – NOCTI		✓				

Business, Management and Administration

Assessment	ACE College Credit Recommendation	Perkins TSA	Clarification/Reporting Criteria TSA	DESE Recognized Credential	Clarification/Reporting Criteria IRC (Effective FY2016)	IRC Code
Certification for Legal Professionals– NALS		✓		✓		ALS
Entrepreneurship – MBA Research		✓				
Fundamental Business Concepts – ASK Institute		✓		✓		ASK-FIN
Missouri Business Management and Entrepreneurship – MBA Research		✓				
Missouri Business Management – MBA Research		✓				

Education and Training Services

Assessment	ACE College Credit Recommendation	Perkins TSA	Clarification/Reporting Criteria TSA	DESE Recognized Credential	Clarification/Reporting Criteria IRC (Effective FY2016)	IRC Code
Early Childhood Education – AAFCS		✓		✓		AAFCS-ECE
Early Childhood Care and Education – NOCTI		✓	NOCTI 3016, 4016 or 4017			
Education Fundamentals – AAFCS		✓		✓	This is the required IRC for the Career Pathways to the Teaching Profession program.	AAFCS-EF
Education and Training – NOCTI		✓				

Missouri Paraprofessional Test		✓		✓	New for the 2020-21 School year	Approved for June 2021 reporting; code to be determined
Youth Development Credential		✓		✓		YDEVA

Finance

Assessment	ACE College Credit Recommendation	Perkins TSA	Clarification/Reporting Criteria TSA	DESE Recognized Credential	Clarification/Reporting Criteria IRC (Effective FY2016)	IRC Code
Accounting Basic – NOCTI		✓				
Accounting Advanced – NOCTI – Postsecondary Only		✓				
ASK		✓		✓		ASK-FINn
Finance - End of Program – MBA Research		✓				

Health Science

Assessment	ACE College Credit Recommendation	Perkins TSA	Clarification/Reporting Criteria TSA	DESE Recognized Credential	Clarification/Reporting Criteria IRC (Effective FY2016)	IRC Code
1st Responder – National Registry of Emergency Medical Technicians (NREMT)		✓				
American Medical Certification Association (AMCA) Certified Phlebotomy Technician and		✓		✓	Student must pass both assessments to earn the IRC.	AMCA-PHLEB

<u>Certified Clinical Medical Assistant Certification</u>						
<u>Associate Degree Nursing (ADN) –NCLEX-RN--</u> MO Division of Professional Registration		✓				
<u>Biotechnology Assistant Credentialing Exam (BACE)</u>				✓	New for the 2020-21 School year	Approved for June 2021 reporting; code to be determined
<u>CCMA through NHA</u>		✓		✓		CCMA-NHA
<u>Certified Dental Assistant, Infection Control Exam (ICE) – Dental Assisting National Board, Inc.</u>		✓		✓		CDAICE
<u>Certified Dental Assistant, Radiation Health & Safety Exam (RHS) – Dental Assisting National Board, Inc.</u>		✓		✓		CDARHS
<u>Certified Nurse Aide (CNA) – Missouri Department of Health and Senior Services</u>		✓		✓		CNA
<u>Dental Assistant - MO - EFDA</u>		✓				
<u>Dental Assisting – NOCTI</u>		✓				
<u>Dental Hygienists – MO Division of Professional Registration</u>		✓				
<u>Dental Lab Technology – NOCTI</u>		✓				

EMT-Basic – Brainbench		✓				
EMT-Basic – NREMT		✓		✓		NREMT
Health Assisting – NOCTI		✓				
Home Health Aide – NOCTI		✓				
Lab/Pharmacy Tech (Secondary Only)- PassAssured		✓				
Massage Therapists – MO Division of Professional Registration		✓				
Medical Assisting – NOCTI		✓				
Missouri Assessment of Basic Dental Assisting Skills		✓		✓		MABDAS
National Health Care Foundation Skill Standard Assessment – National Consortium on Health Science and Technology Ed.		✓				
Nursing Assisting – NOCTI		✓				
Nutrition – AAFCS		✓		✓		AAFCS-N
Practical Nursing NCLEX- PN -- MO Division of Professional Registration		✓				
Practical Nursing – NOCTI		✓				
Pharmacy technicians – Institute for the Certification of Pharmacy Technicians		✓				

Pharmacy technicians Pharmacy Technician Certification Board		✓				
Project Lead The Way: Biomedical		✓	Student must pass two of three PLTW Biomedical EOCs with the following score: PBS: 40 or greater HBS: 35 or greater MI: 36 or greater			
Radiology Technologists – American Registry of Radiologic Technologists		✓				
Respiratory Therapist – National Board for Respiratory Care		✓				
Surgical Technologists – National Board of Surgical Technology and Surgical Assisting		✓				

Hospitality and Tourism

Assessment	ACE College Credit Recommend ation	Perkins TSA	Clarification/ Reporting Criteria TSA	DESE Recognized Credential	Clarification/Reporting Criteria IRC (Effective FY2016)	IRC Code
ACF Certification Assessment – NOCTI		✓	Comply with the requirements for an accredited American Culinary Federation program. For the Perkins TSA, student must be a concentrator that completes an approved CTE program.	✓	To earn the Certified Fundamentals Cook (CFC), formerly Certified Junior Culinarian (CJC) certification, a student must complete the requirements for an accredited American Culinary Federation program, pass the NOCTI written with a score of 70% and the performance	ACF

					assessment with a score of 75% or higher.	
Hospitality and Tourism Management (HTMP) I & II American Hotel and Lodging Educational Institute (AHLEI)	✓	✓	For TSA: to be a concentrator a student could take two supporting CTE courses in a personal plan of study or pathway and then HTMP I or one supporting CTE course, HTMP I and HTMP II But not complete the mentored work requirement. In this case, the HTMP I or HTMP II assessments could be used as the TSA.	✓	To earn the AHLEI – internationally recognized - Certified Hospitality and Tourism Management Professional (CHTMP) a student must pass the American Hotel and Lodging Educational Institute’s HTMP Year 1 final exam and HTMP Year 2 final exam and complete 100 hours of paid or unpaid work experience in one of four qualifying positions. You must have all three components to receive the IRC, and the assessments must be given at the end of each course.	AHLA
Commercial Foods – NOCTI		✓				
Culinary Arts – AAFCS		✓		✓		AAFCS-CA
Culinary Arts I: Prep Cook – NOCTI		✓				
Culinary Arts II: Cook – NOCTI		✓				
Hospitality Mgmt: Food & Beverage Option – NOCTI		✓				
Hospitality Mgmt: Lodging Option – NOCTI		✓				
ProStart I & II National Restaurant Association Education Foundation		✓	For TSA: to be a concentrator a student could take two supporting CTE courses in a personal plan of	✓	To earn the ProStart National Certification of Achievement (COA), a student must pass the National Restaurant	PROSTART

			study or pathway and then ProStart I or one supporting CTE course, ProStart I and ProStart II BUT not complete the mentored work requirement. In this case, the ProStart I or ProStart II assessments could be used as the TSA.		Association's ProStart Year 1 and ProStart Year 2 final exams, and complete 400 hours of mentored work experience.	
Restaurant, Food and Beverage Services - NOCTI		✓				
Retail Commercial Baking - NOCTI		✓				
Travel and Tourism - NOCTI		✓				

Human Services

Assessment	ACE College Credit Recommendation	Perkins TSA	Clarification/Reporting Criteria TSA	DESE Recognized Credential	Clarification/Reporting Criteria IRC (Effective FY2016)	IRC Code
Apparel & Textile Production & Merchandising - NOCTI		✓				
Broad Field Family and Consumer Sciences - AAFCS		✓				
Child Development Associate (CDA)		✓		✓		CDEVA
Cosmetology - MO Division of Professional Registration		✓		✓		CSCBE
Cosmetology - NOCTI		✓				

Early Childhood Care and Education- NOCTI		✓				
Early Childhood Education – AAFCS		✓		✓		AAFCS-ECE
Family and Community Services – AAFCS		✓		✓		AAFCS-FAM
Fashion, Textiles, and Apparel – AAFCS		✓		✓		AAFCS-FASH
Food Science – AAFCS		✓		✓		AAFCS-FS
Interior Decorating and Design – NOCTI		✓				
Interior Design Fundamentals – AAFCS		✓		✓		AAFCS-ID
Nail Care - State Cosmetology Board		✓		✓	Nail Technician—Missouri State Board of Cosmetology and Barber Examiners—Manicure.	NTSCBE
Nail Care – NOCTI		✓				
Nutrition – AAFCS		✓		✓		AAFCS-N

Information Technology

Assessment	ACE College Credit Recommendation	Perkins TSA	Clarification/ Reporting Criteria TSA	DESE Recognized Credential	Clarification/Reporting Criteria IRC (Effective FY2016)	IRC Code
Adobe Certified Associate <ul style="list-style-type: none"> Adobe Photoshop 	✓	✓	Students must pass two ACA assessments to earn the TSA.	✓	Students must earn three Adobe Certified Associate (ACA) certifications to earn the ACA Specialist credential—and to have	Adobe CAC

<ul style="list-style-type: none"> • Adobe Flash Professional • Adobe Illustrator • Adobe Dreamweaver • Adobe Premier • Adobe InDesign 					passed the IRC. Schools should refer to the Certiport website for specific information on the ACAs associated with a specific ACA Specialist credential.	
C + + Certified Associate Programmer	✓	✓		✓		CAP
Certified Computer Service Technician - ETA		✓		✓		ETA
Certified Internet Web Professional - CIW		✓		✓	Student must earn at least one certificate by passing requisite assessments for that certificate: Web Development Professional Certificate, Web Foundation Associate Certificate, Web Design Professional Certificate, or Web Security Associate Certificate	CIW
Certified Production Technician (CPT)		✓		✓		CPT
Cisco Certified Entry level Network Technician (CCENT)		✓		✓	This assessment will not be available after the 2019-2020 school year.	CCENT
Cisco Certified Network Association (CCNA) Final Exam - Cisco Networking Academy		✓				
Cicso Certified Networking Associate		✓		✓		CCNA-S

Security (CCNA Security)						
Cisco CCNA Discovery Final Exam – Cisco Networking Academy		✓				
Cisco CCNA Exploration Final Exam – Cisco Networking Academy		✓				
Cisco CCNP Final Exam – Cisco Networking Academy		✓				
Cisco I.T. Essentials Final Exam – Cisco Networking Academy		✓				
Cisco Student Certification Testing and proctor information: https://semo.edu/eng-tech/DESE-IRC.html		✓		✓	Student must pass both Introduction to Networking and Routing & Switching Essentials at a 75% level on both the performance and written components of the test.	CSC
CompTIA A+ Certification		✓		✓		COMPTIA
CompTIA Network+		✓		✓		COMPNTIA
CompTIA Security		✓		✓		COMPSECTIA
CompTIA Strata (this assessment includes CompTIA Strata Fundamentals through August 2015 and CompTIA Strata IT Fundamentals after August 2015)		✓		✓	Assessment name change in 2015. Student must pass CompTIA Strata IT Fundamentals after August 2015.	COMPSTRTIA

Computer Maintenance and Networking- TestOut		✓				
Computer Maintenance Technology - SkillsUSA		✓				
Computer Networking - NOCTI		✓				
Computer Programming - NOCTI		✓				
Computer Repair and Computer Networking - Cisco Networking Academy		✓				
Computer Repair Technology - NOCTI		✓				
Final Cut Certified Pro		✓		✓		FCCP
Internetworking - SkillsUSA		✓				
Microsoft MTA	✓	✓		✓	Student must earn the IT Infrastructure, Database or Developer MTA certification	MTA
Microsoft Office Specialist	✓	✓		✓	Students must pass Word, Excel, PowerPoint and Access. OR Beginning February 2020, (due to changes at Microsoft): Students must pass Microsoft Word (Word and Word 2019); Microsoft Excel (Excel and Excel 2019) and Microsoft PowerPoint (PowerPoint and PowerPoint 2019)	MOS

*Missouri IT Exam, Sequence 1 (50% Computer Applications; 50% Business Technology) – NOCTI						
*Missouri IT Exam, Sequence 2 (50% Computer Applications; 25% Desktop Publishing; 25% Multimedia)– NOCTI						
*Missouri IT Exam, Sequence 3 (50% Computer Applications; 25% Desktop Publishing; 25% Web Design)– NOCTI						
*Missouri IT Exam, Sequence 4 (25% Computer Applications; 25% Desktop Publishing; 25% Multimedia; 25% Web Design) – NOCTI						
*Missouri IT Exam, Sequence 5 (50% Computer Applications; 25% Web Design; 25% Multimedia) – NOCTI						
Oracle Database SQL Fundamentals I						ODSFI
Network Pro					Students must pass the TestOut Network Pro	TONETWPRO

					assessment to have earned an IRC. The school and teacher must have signed proctoring agreements on file.	
OPAC		✓				
Security Pro		✓		✓	Students must pass the TestOut Security Pro assessment to have earned an IRC. The school and teacher must have signed proctoring agreements on file.	TOSECPRO
TestOut PC Pro		✓		✓	Students must pass the TestOut PC Pro assessment to have earned an IRC. The school and teacher must have signed proctoring agreements on file.	TOPCPRO
Web Design (NOCTI)		✓				

Missouri IT Exams

- State Developed [Assessment Blueprints & Pricing Information](#)
- *If administering the NOCTI pre and post-test, pretest must be administered prior to November 30th. Please reference NOCTI's [pretest policy](#)

Law, Public Safety, Corrections and Security

Assessment	ACE College Credit Recommendation	Perkins TSA	Clarification/Reporting Criteria TSA	DESE Recognized Credential	Clarification/Reporting Criteria IRC	IRC Code
Basic Firefighter – Mo Division of Fire Safety		✓				
Crime Scene Investigation & Criminal Justice – SkillsUSA		✓				
Criminal Justice – NOCTI		✓				
Criminal Justice – Precision Exams		✓				
Emergency and Fire Management Services – NOCTI (Added as a TSA 2.4.2015)		✓				
EMT-Basic – Brainbench		✓				
EMT-Basic – NREMT		✓		✓		NREMT
Firefighter I & II – MO Division of Fire Safety (Fire and Rescue Training Institute, University of Missouri)	✓	✓		✓	Students must pass both Firefighter I and II to have earned the IRC	FIREII
Hazardous Materials Awareness and Operations (when bundled with Basic Firefighter) – Missouri Emergency Response Commission or Missouri Division of Fire Safety (Fire and Rescue Training Institute, University of Missouri)	✓	✓				

Missouri Law Enforcement Skills and Knowledge MOLESK			The written assessment is approved as a TSA for Perkins.		A student must pass both the written assessment and the performance assessment to earn the IRC. Host testing sites must be approved and registered; all sites must adhere to all MOLESK testing protocols for assessments to be valid.	MOLESK
Peace Officer Standards and Training-- Department of Public Safety - Peace Officer Standards and Training POST			This assessment is approved as a TSA for the post-secondary level only.			

Manufacturing

Assessment	ACE College Credit Recommendation	Perkins TSA	Clarification/ Reporting Criteria TSA	DESE Recognized Credential	Clarification/Reporting Criteria IRC (Effective FY2016)	IRC Code
American Welding Society--AWS			The TSA does not require one weld evaluated and approved by an AWS-certified teacher or inspector who is not the student's current teacher.		Passing the NCCER Welding Exam or SkillsUSA Welding Exam or NOCTI Welding Exam or Precision Welding Exam or SENSE exam PLUS pass at least one weld evaluated and approved by an AWS-certified teacher or inspector who is not the student's current teacher.	AWS
Automated Manufacturing Technology - SkillsUSA						

Cabinetmaking – SkillsUSA		✓				
Cisco Certified Network Association (CCNA) Final Exam – Cisco Networking Academy		✓				
CNC Milling and Turning Technology – SkillsUSA		✓				
Electronics Technicians Association (ETA)		✓		✓		ETA
International Society of Certified Electronics Technicians (ISCET) Online Certification		✓		✓		ISCET
Electronics Applications & Technology – SkillsUSA		✓				
Electronics Technology – NOCTI		✓				
Industrial Electricity – NOCTI		✓				
IT Essentials I final exam – CISCO		✓				
Machine Tool Technology – NIMS		✓		✓		NIMS
Manufacturing Technician Level 1 (MT1) Certification from the Manufacturing Skills Institute		✓		✓		MT1
Manufacturing Technology – NOCTI		✓				
Mechatronics – SkillsUSA		✓				
Precision Machining – NOCTI		✓				

Revised 9.15.2020 (Note: This document will be updated periodically to reflect updates from test vendors and updated links).

Ramsay Corporation: Advanced Manufacturing Technology		✓		✓	Students must pass the Advanced Manufacturing Technology assessment.	RAMSAY-AMT
Robotics Technology – SkillsUSA		✓				
Robotics and Automation Technology – SkillsUSA		✓				
Welding—NCCER Please contact Cathy Tyler (386-518-6949) or at Ktyler@nccer.org with NCCER to set up your program and to purchase the NCCER exam.		✓	The TSA does not require one weld evaluated and approved by an AWS-certified teacher or inspector who is not the student’s current teacher.	✓	Passing the NCCER Welding Exam PLUS passing at least one weld evaluated and approved by an AWS-certified teacher or inspector who is not the student’s current teacher.	AWS
Welding – NOCTI		✓	The TSA does not require one weld evaluated and approved by an AWS-certified teacher or inspector who is not the student’s current teacher.	✓	Passing the NOCTI Welding Exam exam PLUS passing at least one weld evaluated and approved by an AWS-certified teacher or inspector who is not the student’s current teacher.	AWS
Welding-- SENSE		✓	The TSA does not require one weld evaluated and approved by an AWS-certified teacher or inspector who is not the student’s current teacher.	✓	Passing the SENSE exam PLUS passing at least one weld evaluated and approved by an AWS- certified teacher or inspector who is not the student’s current teacher.	AWS
Welding – SkillsUSA		✓	The TSA does not require one weld	✓	Passing the SkillsUSA Welding Exam PLUS	AWS

			evaluated and approved by an AWS-certified teacher or inspector who is not the student's current teacher.		passing at least one weld evaluated and approved by an AWS-certified teacher or inspector who is not the student's current teacher.	
Welding Technician Intermediate 596—Precision Exams		✓	The TSA does not require one weld evaluated and approved by an AWS-certified teacher or inspector who is not the student's current teacher.	✓	Passing the Precision Welding Exam PLUS passing at least one weld evaluated and approved by an AWS-certified teacher or inspector who is not the student's current teacher.	AWS

Marketing

Assessment	ACE College Credit Recommendation	Perkins TSA	Clarification/Reporting Criteria TSA	DESE Recognized Credential	Clarification/Reporting Criteria IRC (Effective FY2016)	IRC Code
ASK		✓		✓		ASK-MKTG
Cooperative Education Employability Skills- NOCTI		✓				
Entrepreneurship - MBA Research		✓				
Marketing End of Program - MBA Research		✓				
Workplace Readiness - NOCTI (Approved for CCE programs only)		✓				

Science, Technology, Engineering and Mathematics

Assessment	ACE College Credit Recommendation	Perkins TSA	Clarification/Reporting Criteria TSA	DESE Recognized Credential	Clarification/Reporting Criteria IRC (Effective FY2016)	IRC Code
Marine Service Technology - SkillsUSA		✓				
Pre-Engineering/Engineering Technology - NOCTI		✓				
Project Lead The Way: Engineering and Computer Science		✓	Student must pass two of three PLTW engineering or two of three biomedical or two of three computer science EOCs.			

Transportation, Distribution and Logistics

Assessment	ACE College Credit Recommendation	Perkins TSA	Clarification/Reporting Criteria TSA	DESE Recognized Credential	Clarification/Reporting Criteria IRC (Effective FY2016)	IRC Code
Auto Collision Repair Technology-ASE		✓	A student must pass either B2 or B3. NATEF and ASE work together with NATEF covering curricular areas and ASE the credentialing.	✓	A student must pass either B2 or B3. NATEF and ASE work together with NATEF covering curricular areas and ASE the credentialing.	ASE
Auto Technology - Today's Class		✓				
Automotive Refinishing - SkillsUSA		✓				
Automotive Service Technology - SkillsUSA		✓				
Automotive Technician Advanced - NOCTI		✓				

Automotive Technician Core – NOCTI		✓				
Automotive Technician Examination – ASE		✓	A student will complete the ASE assessment in brakes, steering and suspension, engine performance, and electrical. If the student's average score is higher than the average cut score in these four areas, the student will be marked as a pass	✓	Student must pass all four core assessments: brakes, steering and suspension, engine performance, and electrical OR the student must pass MLR plus one of the following: brakes, steering and suspension, engine performance OR electrical	ASE
Collision Repair/Refinishing Technology(combination) – NOCTI		✓				
Collision Repair – NOCTI		✓				
Collision Repair – ICAR		✓		✓	Student must pass either NST ProLevel 1 or REF ProLevel 1 to earn the IRC.	ICAR
Collision Repair Technology – SkillsUSA		✓				
Diesel Engine Technology – NOCTI		✓				
Medium/Heavy Truck (Diesel) – ASE		✓	A student will complete the ASE assessment in brakes, steering and suspension, engine performance, and electrical. When a student's average score is higher than the average cut score in these four areas, the student will be marked as a pass.	✓	Student must pass all four core assessments: brakes, steering and suspension, engine performance, and electrical	ASE

Diesel Engines & Electronic Systems – SkillsUSA		✓				
FAA Aviation Maintenance Technician--General		✓		✓		FAA-AMT
FAA written exam		✓				
Heavy Equipment Maintenance and Repair – NOCTI		✓				
Marine Service Technology – SkillsUSA		✓				
Mercury Marine		✓				
Motorcycle Service Technology – SkillsUSA		✓				
Power Equipment Technology – SkillsUSA		✓				
Small Engine Technology – NOCTI		✓				
Volvo Penta		✓				

Stackable Credentials

Stackable Credential	ACE College Credit Recommendation	MOSIS/IRC Code
Business, Marketing and Information Technology		
Ethical Hacking Associate (EHA) plus Cyber Forensics Associate (CFA)	✓	Approved for June 2021 reporting; code to be determined
Family Consumer Sciences & Human Services Education		

ServSafe Food Handler plus ServSafe Food Protection Manager certifications (must earn both to earn one (1) stackable credential)		Approved for June 2021 reporting; code to be determined
Health Sciences Education		
American Heart Association Heartcode BLS		Approved for June 2021 reporting; code to be determined
Basic Life Support		Approved for June 2021 reporting; code to be determined
CareerSafe--OSHA 10 for Healthcare		Approved for June 2021 reporting; code to be determined
Certified Clinical Medical Assistant		Approved for June 2021 reporting; code to be determined
Certified Phlebotomy Technician through AMCA		Approved for June 2021 reporting; code to be determined
EKG Technician		Approved for June 2021 reporting; code to be determined
Skilled Technical Sciences		
911 Telecommunications		Approved for June 2021 reporting; code to be determined
Cisco Intro to Cybersecurity		Approved for June 2021 reporting; code to be determined
Cybersecurity Essentials		Approved for June 2021 reporting; code to be determined
Fire I plus Hazmat (A student must pass both to earn a stackable credential)		Approved for June 2021 reporting; code to be determined

Intro to IoT (Internet of Things)		Approved for June 2021 reporting; code to be determined
IT Essentials		Approved for June 2021 reporting; code to be determined
MO Commercial Drivers License (CDL) https://dor.mo.gov/drivers/commercial/		Approved for June 2021 reporting; code to be determined
MTA 98-361 Software Dev Fundamentals		Approved for June 2021 reporting; code to be determined
MTA 98-381 Intro to Programming using Python		Approved for June 2021 reporting; code to be determined
NDG Linux Essentials		Approved for June 2021 reporting; code to be determined
NDG Linux Unhatched		Approved for June 2021 reporting; code to be determined
North American Technical Excellence (NATE) Step 1 (Ready-to-Work) plus Step 2 (HVAC Support Test) (A student must earn both to earn stackable credential)		Approved for June 2021 reporting; code to be determined
OSHA 10		Approved for June 2021 reporting; code to be determined
OSHA Forklift Operator (trainer, operator). Evaluator must sign off assuring student has met OSHA trainer and operator requirements		Approved for June 2021 reporting; code to be determined
Programming Essentials C and/or C++		Approved for June 2021 reporting; code to be determined
Programming Essentials Python		Approved for June 2021 reporting; code to be determined