Guidance Document for DESE-Approved Industry-Recognized Credentials, Stackable Credentials, and Technical Skill Attainment Assessments

This document is intended to provide further guidance to schools as they identify DESE-approved industry-recognized credentials (IRC), stackable credentials, and technical skill attainment (TSA) assessments that best meet the needs of their students using the new IRC implementation plan that begins in the 2025-26 school year. **The class of 2029 must follow this new guidance for the entirety of their secondary education.** Full implementation of the new plan must be in place by the 2028-29 school year. The new IRC implementation plan includes revision to the allowable IRC and stackable credentials list with the requirement for earned IRC and/or stackable credentials to be within students' programs of study.

Definitions:

- **DESE-Approved Industry-Recognized Credential (IRC) for MSIP-6 –** A DESE-approved IRC is 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.
- **Stackable Credentials –** Stackable credentials are a series of aligned, recognized, preferred, and/or required credentials within an industry or sector that support an individual's ability to obtain related, career employment.
- **Technical Skill Attainment (TSA) –** TSA assessments are not required for Perkins V. A TSA assessment measures skill proficiency of CTE students who have completed an approved CTE program. A TSA assessment may be used to fulfill a requirement for the CTE certificate.
- **Work-based Learning –** Work-based learning experiences are defined as Registered Youth Apprenticeships, Cooperative Career Education programs, internships, clinical settings, job shadowing, entrepreneurial experiences, school-based enterprises, structured business/industry field trips, service learning, or other opportunities that provide students with real-time, authentic work experiences.

Additional Information:

- Please make sure to read the CLARIFICATION AND REPORTING CRITERIA column prior to administering the IRC, stackable credential, and/or TSA.
- IRCs are intended for use with secondary students and for local education agencies (LEA) interested in addressing MSIP-6. Students interested in earning the Career and Technical Education (CTE) Certificate must earn either an IRC or pass a TSA assessment.
- The codes for each IRC or stackable credential are found in the Code column. They are also found here at the MOSIS Code Sets (Choose Code Sets under Quick Links and then choose Industry_Recognized_Credential_Codes or Stackable_Credential_Codes).
- For MSIP calculation purposes, only specific qualifying stackable credential combinations that are specifically outlined in the document are equivalent to an IRC.
- Students earning qualifying stackable credential combinations will have the same effect on a district's Perkins V reporting as earning an IRC.
- The DESE-approved IRCs and stackable credentials have been aligned to the American Council on Education (ACE) postsecondary credit review. LEAs must contact ACE and the appropriate institution to determine costs and specific procedures to follow for the transcription of postsecondary credit. Schools may also request a curriculum review from ACE to determine if a particular course is recommended for credit. (Look for qualifying assessments marked with ACE.)

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Updated November 3, 2025

Contact Information
You may contact the appropriate CTE program director for questions or call Lori Brown, CTE Coordinator, at 573-526-4900.

Program Area	Phone
Agriculture Education	573-751-3544
Business, Marketing, & IT Education	573-751-4367
Family Consumer Sciences & Human Services	573-751-7964
Health Science Education	573-751-3407
Skilled Technical Sciences	573-522-6001
Technology & Engineering Education	573-751-7764

GENERAL ASSESSMENT ELIGIBLE FOR PERKINS	
Assessment	**Clarification & Reporting Criteria IRC**
ACT WorkKeys **ACE**	ACT WorkKeys is not a DESE-approved IRC or stackable credential. LEAs can use it as a TSA assessment for program improvement purposes.

SKILLED TECHNICAL SCIENCES (STS) EDUCATION
CLUSTER #1 – ADVANCED MANUFACTURING
formerly cluster #13

CLUSTER #1 – ADVANCED MANUFACTURING
MACHINE TOOL – CIP CODE 48.0501

STS IRCS FOR CLUSTER #1 MACHINE TOOL	CLARIFICATION & REPORTING CRITERIA	CODE
Solidworks Associate	Student must pass two of three assessments: Mechanical Design, Advanced Manufacturing, and Electrical.	SWA

STS STACKABLE CREDENTIALS FOR CLUSTER #1 MACHINE TOOL SECTION 1	CLARIFICATION & REPORTING CRITERIA	CODE
Machining Classic Credential: CNC Lathe Operations – NIMS	For a student to be calculated as having earned an IRC, they must also earn another credential in Section 1.	S-NCLO
Machining Classic Credential: CNC Lathe Programming Setup & Operations – NIMS	For a student to be calculated as having earned an IRC, they must also earn another credential in Section 1.	S-NCLPO
Machining Classic Credential: CNC Mill Operations – NIMS	For a student to be calculated as having earned an IRC, they must also earn another credential in Section 1.	S-NCMO
Machining Classic Credential: CNC Mill Programming Setup & Operations – NIMS	For a student to be calculated as having earned an IRC, they must also earn another credential in Section 1.	S-NCMPO
Machining Classic Credential: Machining: Measurement, Materials and Safety – NIMS	For a student to be calculated as having earned an IRC, they must also earn another credential in Section 1.	S-NMMS
Machining Classic Credential: Milling I – NIMS	For a student to be calculated as having earned an IRC, they must also earn another credential in Section 1.	S-NML1
Machining Classic Credential: Turning I (Chucking) – NIMS	For a student to be calculated as having earned an IRC, they must also earn another credential in Section 1.	S-NTN1

STS TSA ASSESSMENTS FOR CLUSTER #1 MACHINE TOOL	CLARIFICATION/COMMENTS
Precision Machining – NOCTI	

CLUSTER #1 – ADVANCED MANUFACTURING
ROBOTICS TECHNOLOGY – CIP CODE 15.0405

STS IRCS FOR CLUSTER #1 ROBOTICS TECHNOLOGY	CLARIFICATION & REPORTING CRITERIA	CODE
FANUC Certified Robot **NEW**	Stackable credential code: S-FANUCCR	FANUCCR

STS STACKABLE CREDENTIALS FOR CLUSTER #1 ROBOTICS TECHNOLOGY	CLARIFICATION & REPORTING CRITERIA	CODE
No approved stackable credentials for this program.		

STS TSA ASSESSMENTS FOR CLUSTER #1 ROBOTICS TECHNOLOGY	CLARIFICATION/COMMENTS
Manufacturing Technology – NOCTI	

TECHNOLOGY AND ENGINEERING (T&E) EDUCATION
CLUSTER #1 – ADVANCED MANUFACTURING
formerly cluster #15

T&E IRCS FOR CLUSTER #1 ADVANCED MANUFACTURING	CLARIFICATION & REPORTING CRITERIA	CODE
No approved IRCs for this program.		

T&E STACKABLE CREDENTIALS FOR CLUSTER #1 ADVANCED MANUFACTURING	CLARIFICATION & REPORTING CRITERIA	CODE
No approved stackable credentials for this program.		

T&E TSA ASSESSMENTS FOR CLUSTER #1 ADVANCED MANUFACTURING	CLARIFICATION/COMMENTS
Pre-Engineering/Engineering Technology – NOCTI	
Project Lead The Way: Engineering and Computer Science	Student must pass two of the three PLTW engineering or computer science EOCs. See chart

AGRICULTURAL EDUCATION
CLUSTER #2 – AGRICULTURE
formerly cluster #1

CLUSTER #2 – AGRICULTURE AGRIBUSINESS		
IRCS FOR CLUSTER #2 AGRIBUSINESS	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
MO Agriculture Skill & Knowledge Assessment-Farm Management	MOASK Host Site Agreement – In-Person MOASK Host Site Agreement – Virtual	AGSK

STACKABLE CREDENTIALS FOR CLUSTER #2 AGRIBUSINESS	CLARIFICATION & REPORTING CRITERIA	CODE
No approved stackable credentials for this program.		
TSA ASSESSMENTS FOR CLUSTER #2 AGRIBUSINESS	**CLARIFICATION/COMMENTS**	

Production Agriculture – NOCTI	

CLUSTER #2 – AGRICULTURE AGRICULTURE TECHNOLOGY & AUTOMATION		
IRCS FOR CLUSTER #2 AGRICULTURE TECHNOLOGY & AUTOMATION	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
Equipment & Engine Training Council (ETTC) Principles of Small Engine Technology Certification **NEW**	Students must pass test and complete 100 hours of small engine related work-based learning experiences (outside of the classroom) as defined in the CTE Certificate to report as an IRC.	SMALLEN
MO Agriculture Skill & Knowledge Assessment-Agricultural Mechanics	MOASK Host Site Agreement – In-Person	AGSK

STACKABLE CREDENTIALS FOR CLUSTER #2 AGRICULTURE TECHNOLOGY & AUTOMATION	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
No approved stackable credentials for this program.		

TSA ASSESSMENTS FOR CLUSTER #2 AGRICULTURE TECHNOLOGY & AUTOMATION	**CLARIFICATION/COMMENTS**
Agricultural Mechanics – NOCTI	
Production Agriculture – NOCTI	

CLUSTER #2 – AGRICULTURE ANIMAL SYSTEMS		
IRCS FOR CLUSTER #2 ANIMAL SYSTEMS	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
American Meat Science Association (ASMA) Meat Evaluation Certification **NEW**	Student must pass test and complete 100 hours of Meat carcass grading, meat handling, and food safety related work-based learning experiences (outside of the classroom) as defined in the CTE Certificate to report as an IRC.	ASMAMEAT
Elanco Fundamentals of Animal Science Certification **NEW**	Student must pass test and complete 100 hours of animal science related work-based learning experiences (outside of the classroom) as defined in the CTE Certificate to report as an IRC.	ANSCI
Elanco Veterinary Medical Applications Certification **NEW**	Student must pass test and complete 100 hours of veterinary medicine related work-based learning experiences (outside of the classroom) as defined in the CTE Certificate to report as an IRC.	VETMED
MO Agriculture Skill & Knowledge Assessment-Dairy Cattle, Poultry, Horse, Livestock, Meats	MOASK Host Site Agreement – In-Person	AGSK

National Horse Judging Team Coaches Association (NHJTCA) Equine Management & Evaluation Certification **NEW**	Student must pass test and complete 100 hours of equine related work-based learning experiences (outside of the classroom) as defined in the CTE Certificate to report as an IRC.	EQUINE
Veterinary Assistant — Patterson Veterinary		AGVET

STACKABLE CREDENTIALS FOR CLUSTER #2 ANIMAL SYSTEMS	CLARIFICATION & REPORTING CRITERIA	CODE
No approved stackable credentials for this program.		

TSA ASSESSMENTS FOR CLUSTER #2 ANIMAL SYSTEMS	CLARIFICATION/COMMENTS
Agriculture Biotechnology – NOCTI	
Animal Systems – NOCTI	
Production Agriculture – NOCTI	
Small Animal Science & Technology – NOCTI	

CLUSTER #2 – AGRICULTURE FOOD SCIENCE & PROCESSING		
IRCS FOR CLUSTER #2 FOOD SCIENCE & PROCESSING	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
American Meat Science Association (ASMA) Food Safety & Science Certification **NEW**	Student must pass test and complete 100 hours of food science/food safety related work-based learning experiences (outside of the classroom) as defined in the CTE Certificate to obtain IRC.	ASMAFSS
MO Agriculture Skill & Knowledge Assessment-Meats, Poultry, Dairy Foods	MOASK Host Site Agreement – In-Person	AGSK

STACKABLE CREDENTIALS FOR CLUSTER #2 FOOD SCIENCE & PROCESSING	CLARIFICATION & REPORTING CRITERIA	CODE
No approved stackable credentials for this program.		

TSA ASSESSMENTS FOR CLUSTER #2 FOOD SCIENCE & PROCESSING	CLARIFICATION/COMMENTS
Agriculture Biotechnology – NOCTI	

CLUSTER #2 – AGRICULTURE PLANT SCIENCE SYSTEMS		
IRCS FOR CLUSTER #2 PLANT SCIENCE SYSTEMS	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
BASF Plant Science Certification **NEW**	Student must pass test and complete 100 hours of plant science related work-based learning experiences (outside of the classroom) as defined in the CTE Certificate to obtain IRC.	PLANT

Benz School of Floral Design Principles of Floral Design Certification **NEW**	Student must pass test and complete 100 hours of floriculture related work-based learning experiences (outside of the classroom) as defined in the CTE Certificate to obtain IRC.	FLORAL
MO Agriculture Skill & Knowledge Assessment-Agronomy, Nursery/Landscaping, Soils, Floriculture, Entomology, Grasslands	MOASK Host Site Agreement – In-Person	AGSK
Sports Field Management Association (SFMA) Turfgrass Science Certification **NEW**	Student must pass test and complete 100 hours of turfgrass related work-based learning experiences (outside of the classroom) as defined in the CTE Certificate to obtain IRC.	TURF

STACKABLE CREDENTIALS FOR CLUSTER #2 PLANT SCIENCE SYSTEMS	CLARIFICATION & REPORTING CRITERIA	CODE
No approved stackable credentials for this program.		

TSA ASSESSMENTS FOR CLUSTER #2 PLANT SCIENCE SYSTEMS	CLARIFICATION/COMMENTS
Agriculture Biotechnology – NOCTI	
Floriculture – NOCTI	
Floriculture-Greenhouse – NOCTI	
Forest Products & Processing – NOCTI	
Horticulture-Landscaping – NOCTI	
Production Agriculture – NOCTI	

CLUSTER #2 – AGRICULTURE
WATER SYSTEMS

IRCS FOR CLUSTER #2 WATER SYSTEMS	CLARIFICATION & REPORTING CRITERIA	CODE
Ducks Unlimited Ecology Conservation & Management Certification **NEW**	Student must pass test and complete 100 hours of natural resource related work-based learning experiences (outside of the classroom) as defined in the CTE Certificate to report as an IRC.	ECO
MO Agriculture Skill & Knowledge Assessment-Soils	MOASK Host Site Agreement – In-Person	AGSK
Natural Resources Conservation Service (NRCS) Fundamentals of Conservation & Sustainability in Agriculture Certification **NEW**	Student must pass test and complete 100 hours of natural resource related work-based learning experiences (outside of the classroom) as defined in the CTE Certificate to report as an IRC.	CONSERV

STACKABLE CREDENTIALS FOR CLUSTER #2 WATER SYSTEMS	CLARIFICATION & REPORTING CRITERIA	CODE
No approved stackable credentials for this program.		

TSA ASSESSMENTS FOR CLUSTER #2 WATER SYSTEMS	CLARIFICATION/COMMENTS
Agriculture Biotechnology – NOCTI	
Conservation – NOCTI	
Natural Resource Systems – NOCTI	
Production Agriculture – NOCTI	

FAMILY CONSUMER SCIENCES AND HUMAN SERVICES (FCSHS) EDUCATION
CLUSTER #3 – ARTS, ENTERTAINMENT & DESIGN
formerly titled Arts, A/V Technology, and Communications

CLUSTER #3 – ARTS, ENTERTAINMENT, & DESIGN
FASHION & INTERIORS

FCSHS IRCS FOR CLUSTER #3 FASHION & INTERIORS	CLARIFICATION & REPORTING CRITERIA	CODE
Interior Design Fundamentals – AAFCS		AAFCS-ID

FCSHS STACKABLE CREDENTIALS FOR CLUSTER #3 FASHION & INTERIORS	CLARIFICATION & REPORTING CRITERIA	CODE
No approved stackable credentials for this program.		

FCSHS TSA ASSESSMENTS FOR CLUSTER #3 FASHION & INTERIORS	CLARIFICATION/COMMENTS
Fashion Technology and Merchandising – NOCTI	
Fashion Textiles and Apparel – AAFCS	
Housing & Furnishings – AAFCS	
Interior Decorating and Design – NOCTI	

SKILLED TECHNICAL SCIENCES (STS) EDUCATION
CLUSTER #3 – ARTS, ENTERTAINMENT, & DESIGN
formerly titled Arts, A/V Technology, and Communications

CLUSTER #3 – ARTS, ENTERTAINMENT, & DESIGN
GRAPHIC ARTS – CIP CODE 10.0305

STS IRCS FOR CLUSTER #3 GRAPHIC ARTS	CLARIFICATION & REPORTING CRITERIA	CODE
Adobe Illustrator Certification **NEW**		ILLUST
Adobe InDesign Certification **NEW**		INDESIGN
Adobe Photoshop Certification **NEW**		PHOTOSH

Adobe Premier Pro Certification **NEW**		PREMPRO

STS STACKABLE CREDENTIALS FOR CLUSTER #3 GRAPHIC ARTS	CLARIFICATION & REPORTING CRITERIA	CODE
No approved stackable credentials for this program.		

STS TSA ASSESSMENTS FOR CLUSTER #3 GRAPHIC ARTS	CLARIFICATION/COMMENTS
Audio-Visual Communications – NOCTI	
Graphic Design – SkillsUSA	
Graphic Production Technology – NOCTI	
Screen Printing Technology – SkillsUSA	
Visual Arts – NOCTI	
Visual Communication Interactive Media Design – NOCTI	

CLUSTER #3 – ARTS, ENTERTAINMENT, & DESIGN
RADIO AND TELEVISION BROADCASTING TECHNOLOGY – CIP CODE 10.0202

STS IRCS FOR CLUSTER #3 RADIO AND TELEVISION BROADCASTING TECHNOLOGY	CLARIFICATION & REPORTING CRITERIA	CODE
Adobe Premier Pro Certification **NEW**		PREMPRO
FAA Part 107		FAA-RPL

STS STACKABLE CREDENTIALS FOR CLUSTER #3 RADIO AND TELEVISION BROADCASTING TECHNOLOGY	CLARIFICATION & REPORTING CRITERIA	CODE
No approved stackable credentials for this program.		

STS TSA ASSESSMENTS FOR CLUSTER #3 RADIO AND TELEVISION BROADCASTING TECHNOLOGY	CLARIFICATION/COMMENTS
Audio-Visual Communications – NOCTI	
Broadcasting and Journalism – NOCTI	
Performing Arts – NOCTI	
Television Production – NOCTI	
Visual Arts – NOCTI	
Visual Communication Interactive Media Design – NOCTI	

SKILLED TECHNICAL SCIENCES EDUCATION
CLUSTER #4 – CONSTRUCTION
formerly cluster #2

CLUSTER #4 – CONSTRUCTION
AIR CONDITIONING, HEATING, AND REFRIGERATION – CIP CODE 47.0201

IRCS FOR CLUSTER #4 AIR CONDITIONING, HEATING, AND REFRIGERATION	CLARIFICATION & REPORTING CRITERIA	CODE
Air Conditioning Certification – HVAC Excellence H.E.A.T.		HVAC
HVAC – NC3 Trane Residential AND HVAC – NC3 Trane Commercial HVAC/Building Automation Systems	Students must pass both the NC3 Trane Residential **and** the Commercial/Building Automation systems assessments. Visit this site for information on how to deliver certifications.	HVAC-NC3
HVAC – NCCER	Contact Nicole Kitler at 386-518-6922 or email NKitler@nccer.org to set up and purchase the exam	NCCER-HVAC
North American Technical Excellence (NATE)	Step 1 (Ready-to-Work) plus Step 2 (HVAC Support Test). Student must earn both to earn the credential.	NATE1&2

STACKABLE CREDENTIALS FOR CLUSTER #4 AIR CONDITIONING, HEATING, AND REFRIGERATION	CLARIFICATION & REPORTING CRITERIA	CODE
OSHA 10	For a student to be calculated as having earned an IRC, they must also earn the Section 608 Technician Certification.	S-OSHA10
Section 608 Technician Certification – US EPA	For a student to be calculated as having earned an IRC, they must also earn the OSHA 10 certification.	S-EPA608U

TSA ASSESSMENTS FOR CLUSTER #4 AIR CONDITIONING, HEATING, AND REFRIGERATION	CLARIFICATION/COMMENTS
HVAC – NC3 Trane Residential OR HVAC – NC3 Trane Commercial HVAC/Building Automation Systems	Students must pass both the NC3 Trane Residential **or** the Commercial/Building Automation systems assessments. Visit this site for information on how to deliver certifications.
HVAC – NOCTI	
HVAC/R – NOCTI	

CLUSTER #4 – CONSTRUCTION CARPENTRY – CIP CODE 46.0201 CONSTRUCTION TECHNOLOGY – CIP CODE 46.0000		
IRCS FOR CLUSTER #4 CARPENTRY AND CONSTRUCTION TECHNOLOGY	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
Carpentry – NCCER	Carpentry Level One - contact Nicole Kitler at 386-518-6922 or email NKitler@nccer.org to set up and purchase the exam.	NCCER-CARP
Carpentry Career Connections – Contact Chris Adair	Students must pass the Career Connections Level 2 or above exam. To schedule the exam, contact Chris Adair, Instructor, at cadair@cjtf.org or call the office at 314-269-5648 or his cell at 314-327-4641.	CCC
Carpentry HBI Pre-Apprenticeship Certificate Training – PACT		PACT
Construction – NCCER	Contact Nicole Kitler at 386-518-6922 or email NKitler@nccer.org to set up and purchase the exam.	NCCER-CNST

STACKABLE CREDENTIALS FOR CLUSTER #4 CARPENTRY AND CONSTRUCTION TECHNOLOGY	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
No approved stackable credentials for this program.		

TSA ASSESSMENTS FOR CLUSTER #4 CARPENTRY AND CONSTRUCTION TECHNOLOGY	**CLARIFICATION/COMMENTS**
Building Construction Occupations – NOCTI	
Building Trades Maintenance – NOCTI	
Cabinetmaking – NOCTI	
Cabinetmaking – WoodLINKS USA	
CAD – NOCTI	
Carpentry – NOCTI	
Carpentry Career Connections– Contact Chris Adair	Students must pass Career Connections Level 1 or Level 2 exam. To schedule the exam, contact Chris Adair, Instructor, at cadair@cjtf.org or call the office at 314-269-5648 or his cell at 314-327-4641.
Construction Masonry – Block laying option – NOCTI	
Construction Masonry – Bricklaying option – NOCTI	
HVAC – NC3 Trane Residential OR HVAC – NC3 Trane Commercial HVAC/Building Automation Systems	Students must pass both the NC3 Trane Residential **or** the Commercial/Building Automation systems assessments. Visit this site for information on how to deliver certifications.
HVAC – NOCTI	
HVAC/R – NOCTI	
Plumbing – NOCTI	

CLUSTER #4 – CONSTRUCTION DRAFTING AND DESIGN TECHNOLOGY – CIP CODE 15.1301		
IRCS FOR CLUSTER #4 DRAFTING AND DESIGN TECHNOLOGY	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
American Design Drafting Association		ADDA
Autodesk Certified User	Student must pass three of the six assessments (AutoCad, 3dsMax, Maya, Fusion 360, Revit Architecture, Inventor).	ACU
Autodesk Professional Certification (Certified Professional)	Student must pass one Autodesk Professional Certification--Certified Professional assessment in the appropriate instructional area. • Revit for Architectural Design • Revit for Structural Design • Revit for Mechanical Design • Revit for Electrical Design • AutoCAD for Design and Drafting • Civil 3D for Infrastructure Design	ACP
Solidworks Associate	Student must pass two of following assessments: Mechanical Design, Advanced Manufacturing, and Electrical.	SWA

STACKABLE CREDENTIALS FOR CLUSTER #4 DRAFTING AND DESIGN TECHNOLOGY	CLARIFICATION & REPORTING CRITERIA	CODE
No approved stackable credentials for this program.		

TSA ASSESSMENTS FOR CLUSTER #4 DRAFTING AND DESIGN TECHNOLOGY	CLARIFICATION/COMMENTS
Technical Drafting – NOCTI	

CLUSTER #4 – CONSTRUCTION ELECTRICIAN – CIP CODE 46.0302		
IRCS FOR CLUSTER #4 ELECTRICIAN	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
Electrical 1 – NCCER	Contact Nicole Kitler at 386-518-6922 or email NKitler@nccer.org to set up and purchase the exam.	NCCER-ELE

STACKABLE CREDENTIALS FOR CLUSTER #4 ELECTRICIAN	CLARIFICATION & REPORTING CRITERIA	CODE
No approved stackable credentials for this program.		

TSA ASSESSMENTS FOR CLUSTER #4 ELECTRICIAN	CLARIFICATION/COMMENTS
Industrial Maintenance Mechanics – NOCTI	

CLUSTER #4 – CONSTRUCTION MASONRY – CIP CODE 46.0101		
IRCS FOR CLUSTER #4 MASONRY	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
Masonry – NCCER	Contact Nicole Kitler at 386-518-6922 or email NKitler@nccer.org to set up and purchase the exam.	NCCER-MAS

STACKABLE CREDENTIALS FOR CLUSTER #4 MASONRY	CLARIFICATION & REPORTING CRITERIA	CODE
No approved stackable credentials for this program.		

TSA ASSESSMENTS FOR CLUSTER #4 MASONRY	CLARIFICATION/COMMENTS
Building Construction Occupations – NOCTI	
Construction Masonry – Block laying option – NOCTI	
Construction Masonry – Bricklaying option – NOCTI	

CLUSTER #4 – CONSTRUCTION IRON WORKER – CIP CODE 48.0509 METAL FABRICATION – CIP CODE 48.0511 WELDING TECHNOLOGY – CIP CODE 48.0508		
IRCS FOR CLUSTER #4 IRON WORKER, METAL FABRICATION, AND WELDING TECHNOLOGY	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
American Welding Society – AWS	Student must pass the NCCER (email NKitler@nccer.org to set up exam), NOCTI, Precision (Welding Tech 2), or SENSE welding exam **and** pass at least one weld evaluated and approved by an AWS-certified teacher or inspector who is not the student's current teacher.	AWS

STACKABLE CREDENTIALS FOR CLUSTER #4 IRON WORKER, METAL FABRICATION, AND WELDING TECHNOLOGY	CLARIFICATION & REPORTING CRITERIA	CODE
No approved stackable credentials for this program.		

TSA ASSESSMENTS FOR CLUSTER #4 IRON WORKER, METAL FABRICATION, AND WELDING TECHNOLOGY	CLARIFICATION/COMMENTS
No approved TSAs for this program.	

BUSINESS EDUCATION
CLUSTER #5 – DIGITAL TECHNOLOGY
Formerly cluster #11

BUSINESS IRCS FOR CLUSTER #5 DIGITAL TECHNOLOGY	CLARIFICATION & REPORTING CRITERIA	CODE
Adobe Certified Professional	• To earn a new specialty credential, a student must achieve a passing score on one specific exam, as well as a passing score on one of the other two exams as listed below. Any version of the Live-in-the-App exams will qualify. Adobe Certified Professional in: ○ Visual Design = Photoshop (required) + Illustrator *or* InDesign ○ Video Design = Premiere Pro (required) + Photoshop *or* After Effects ○ Web Design = Dreamweaver (required) + Animate or Photoshop	ADOBE-ACP
Amazon Web Services (AWS) Cloud Practitioner		AWSCP
AZ-900: Microsoft Azure Fundamentals ACE		AZMAF
C + + Certified Associate Programmer		CAP
Certified Computer Service Technician – ETA		CST
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
Cisco Certified Networking Associate Security (CCNA Security)		CCNA-S
Cisco Certified Support Technician: Cybersecurity		CCSTC
Cisco Certified Support Technician: Networking		CCSTN
Cisco Cybersecurity Essentials		CYBESS
Cisco Programming Essentials Python		CPYTHON
Cisco IT Essentials		ITESS
Cisco NDG Linux Essentials		NDGESS
Cisco Programming Essentials C and/or C++		PROESSC
Cisco Certified Support Technician IT Support		CITS
CompTIA A+ Certification		COMPTIA
CompTIA Cybersecurity Analyst		CTIACYAN
CompTIA Data+		CTIADATA
CompTIA IT Fundamentals		CTIAITF
CompTIA Network+		COMPNTIA
CompTIA Security+		COMPSECTIA
Ethical Hacking Associate (EHA) plus Cyber Forensics Associate (CFA) ACE		HACK

Microsoft Office Specialist ACE	Student must pass Microsoft Word, Microsoft Excel, and Microsoft PowerPoint.	MOS
Oracle Database SQL Fundamentals I		ODSFI

BUSINESS STACKABLE CREDENTIALS FOR CLUSTER #5 DIGITAL TECHNOLOGY SECTION 1	CLARIFICATION & REPORTING CRITERIA	CODE
Certiport IT Specialist: Databases	For a student to be calculated as having earned an IRC, they must also earn another credential in Section 1.	S-CITSDB
Certiport IT Specialist: Device Configuration & Management	For a student to be calculated as having earned an IRC, they must also earn another credential in Section 1.	S-CITSDCM
Certiport IT Specialist: HTML and CSS	For a student to be calculated as having earned an IRC, they must also earn another credential in Section 1.	S-CITSHC
Certiport IT Specialist: Java	For a student to be calculated as having earned an IRC, they must also earn another credential in Section 1.	S-CITSJ
Certiport IT Specialist: JavaScript	For a student to be calculated as having earned an IRC, they must also earn another credential in Section 1.	S-CITSJS
Certiport IT Specialist: Networking	For a student to be calculated as having earned an IRC, they must also earn another credential in Section 1.	S-CITSN
Certiport IT Specialist: Network Security	For a student to be calculated as having earned an IRC, they must also earn another credential in Section 1.	S-CITSNS
Certiport IT Specialist: Python	For a student to be calculated as having earned an IRC, they must also earn another credential in Section 1.	S-CITSPY
Certiport IT Specialist: Software Development	For a student to be calculated as having earned an IRC, they must also earn another credential in Section 1.	S-CITSSD
Cisco Intro to Cybersecurity	For a student to be calculated as having earned an IRC, they must also earn another credential in Section 1.	S-CISCOCY
Cisco NDG Linux Unhatched	For a student to be calculated as having earned an IRC, they must also earn another credential in Section 1.	S-NDGUNH

BUSINESS STACKABLE CREDENTIALS FOR CLUSTER #5 DIGITAL TECHNOLOGY SECTION 2	CLARIFICATION & REPORTING CRITERIA	CODE
Unity Certified User: Programmer Certification	For a student to be calculated as having earned an IRC, they must also earn the Unity Certified User: VR Developer Certification.	S-UPRO
Unity Certified User: VR Developer Certification	For a student to be calculated as having earned an IRC, they must also earn the Unity Certified User: Programmer Certification.	S-UVRD

BUSINESS STACKABLE CREDENTIALS FOR CLUSTER #5 DIGITAL TECHNOLOGY SECTION 3	CLARIFICATION & REPORTING CRITERIA	CODE
Certiport IT Specialist: Python	For a student to be calculated as having earned an IRC, they must also earn the NC3 Data Analytics certification.	S-CITSPY
NC3 Data Analytics **NEW**	For a student to be calculated as having earned an IRC, they must also earn the Certiport IT Specialist: Python certification.	S-NC3DA

BUSINESS STACKABLE CREDENTIALS FOR CLUSTER #5 DIGITAL TECHNOLOGY SECTION 4	CLARIFICATION & REPORTING CRITERIA	CODE
Tosa JavaScript **NEW**	For a student to be calculated as having earned an IRC, they must also earn the Tosa Web Developer or Tosa WordPress credential.	S-TJAVA
Tosa Python **NEW**	For a student to be calculated as having earned an IRC, they must also earn the Tosa Web Developer or Tosa WordPress credential.	S-TPYTHON
Tosa Web Developer **NEW**	For a student to be calculated as having earned an IRC, they must also earn the Tosa JavaScript or Tosa Python credential.	S-TWEB
Tosa WordPress **NEW**	For a student to be calculated as having earned an IRC, they must also earn ass the Tosa JavaScript or Tosa Python credential.	S-TPRESS

BUSINESS TSA ASSESSMENTS FOR CLUSTER #5 DIGITAL TECHNOLOGY	CLARIFICATION/COMMENTS	
Computer Networking – NOCTI		
Computer Programming – NOCTI		
Computer Repair Technology – NOCTI		
Missouri IT Exam, Sequence 1 – NOCTI	(50% Computer Applications; 50% Business Technology)	
Missouri IT Exam, Sequence 2 – NOCTI	(50% Computer Applications; 25% Desktop Publishing; 25% Multimedia)	
Missouri IT Exam, Sequence 3 – NOCTI	(50% Computer Applications; 25% Desktop Publishing; 25% Web Design)	
Missouri IT Exam, Sequence 4 – NOCTI	(25% Computer Applications; 25% Desktop Publishing; 25% Multimedia; 25% Web Design)	
Missouri IT Exam, Sequence 5 – NOCTI	(50% Computer Applications; 25% Web Design; 25% Multimedia)	
Web Design – NOCTI		

SKILLED TECHNICAL SCIENCES (STS) EDUCATION
CLUSTER #5 – DIGITAL TECHNOLOGY
formerly cluster #11

COMPUTER INSTALLER AND REPAIR – CIP CODE 47.0104
COMPUTER SERVICING TECHNOLOGY – CIP CODE 15.1202

STS IRCS FOR CLUSTER #5 COMPUTER INSTALLER AND REPAIR AND COMPUTER SERVICING TECHNOLOGY	CLARIFICATION & REPORTING CRITERIA	CODE
Amazon Web Services (AWS) Cloud Practitioner		AWSCP
C + + Certified Associate Programmer		CAP
Certified Computer Service Technician – ETA		CST
Certified Internet Web Professional – CIW	Students must earn at least one certificate by passing requisite.	CIW
Certiport IT Specialist: Databases		CITSDB
Certiport IT Specialist: Device Configuration & Management		CITSDCM
Certiport IT Specialist: HTML and CSS		CITHC
Certiport IT Specialist: Java		CITSJ
Certiport IT Specialist: JavaScript		CITSJS
Certiport IT Specialist: Network Security		CITSNS
Certiport IT Specialist: Networking		CITSN
Certiport IT Specialist: Python		CITSPY
Certiport IT Specialist: Software Development		CITSSD
Cisco Certified Networking Associate Security (CCNA Security)		CCNA-S
Cisco Certified Support Technician: Cybersecurity		CCSTC
Cisco Certified Support Technician: Networking		CCSTN
Cisco Student Certification	• Testing and proctor information: https://semo.edu/eng- tech/DESE-IRC.html. • Students 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 Cybersecurity Analyst		CTIACYAN
CompTIA Data+		CTIADATA
CompTIA IT Fundamentals	Replaced CompTIA Strata exam.	CTIAITF
CompTIA Network+		COMPNTIA
CompTIA Security+		COMPSECTIA
Network Pro – TestOut	The teacher must have signed proctoring agreements on file.	TONETWPRO

Oracle Database SQL Fundamentals I		ODSFI
PC Pro – TestOut	The teacher must have signed proctoring agreements on file.	TOPCPRO
Security Pro – TestOut	The teacher must have signed proctoring agreements on file.	TOSECPRO
Unity Certified User: Artist Certification		UART
Unity Certified User: Programmer Certification		UPRO
Unity Certified User: VR Developer Certification		UVRD

STS STACKABLE CREDENTIALS FOR CLUSTER #5 COMP INSTALLER AND REPAIR AND COMP SERVICING TECH SECTION 1	CLARIFICATION & REPORTING CRITERIA	CODE
AZ-900: Microsoft Azure Fundamentals ACE	For a student to be calculated as having earned an IRC, they must earn one additional stackable credential Section 1.	S-AZMAF
Cisco Cybersecurity Essentials	For a student to be calculated as having earned an IRC, they must earn one additional stackable credential Section 1.	S-CYBESS
Cisco IT Essentials	For a student to be calculated as having earned an IRC, they must earn one additional stackable credential Section 1.	S-ITESS
Cisco NDG Linux Essentials	For a student to be calculated as having earned an IRC, they must earn one additional stackable credential Section 1.	S-NDGESS
Cisco Programming Essentials C and/or C++	For a student to be calculated as having earned an IRC, they must earn one additional stackable credential Section 1.	S-PROESSC
Cisco Programming Essentials Python	For a student to be calculated as having earned an IRC, they must earn one additional stackable credential Section 1.	S-PROESSP
Intro to IoT (Internet of Things)	For a student to be calculated as having earned an IRC, they must earn one additional stackable credential Section 1.	S-IOT
TestOut Cyber Defense Pro	For a student to be calculated as having earned an IRC, they must earn one additional stackable credential Section 1.	S-TOCDP
TestOut Ethical Hacker Pro	For a student to be calculated as having earned an IRC, they must earn one additional stackable credential Section 1.	S-TOEHP
TestOut IT Fundamentals Pro	For a student to be calculated as having earned an IRC, they must earn one additional stackable credential Section 1.	S-TOITFP

STS TSA ASSESSMENTS FOR CLUSTER #5 COMPUTER INSTALLER AND REPAIR AND COMPUTER SERVICING TECHNOLOGY	CLARIFICATION/COMMENTS
Cisco CCNP Final Exam – Cisco Networking Academy	
Cisco I.T. Essentials Final Exam – Cisco Networking Academy	
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	
OPAC	
Web Design – NOCTI	

FAMILY CONSUMER SCIENCES AND HUMAN SERVICES EDUCATION
CLUSTER #6 – EDUCATION
formerly cluster #5

CLUSTER #6 – EDUCATION EARLY CHILDHOOD DEVELOPMENT		
IRCS FOR CLUSTER #6 EARLY CHILDHOOD DEVELOPMENT	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
Early Childhood Education – AAFCS		AAFCS-ECE
Child Development Associate (CDA)		CDEVA

STACKABLE CREDENTIALS FOR CLUSTER #6 EARLY CHILDHOOD DEVELOPMENT	CLARIFICATION & REPORTING CRITERIA	CODE
No approved stackable credentials for this program.		

TSA ASSESSMENTS FOR CLUSTER #6 EARLY CHILDHOOD DEVELOPMENT	CLARIFICATION/COMMENTS
Early Childhood Education and Care – NOCTI	Test Code 4116 or 4117

CLUSTER #6 – EDUCATION TEACHING, TRAINING, & FACILITATION		
IRCS FOR CLUSTER #6 TEACHING, TRAINING, & FACILITATION	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
Early Childhood Education – AAFCS		AAFCS-ECE
Education Fundamentals – AAFCS		AAFCS-EF
Missouri ParaPro Assessment		MPT
Youth Development Credential		YDEVA

STACKABLE CREDENTIALS FOR CLUSTER #6 TEACHING, TRAINING, & FACILITATION	CLARIFICATION & REPORTING CRITERIA	CODE
No approved stackable credentials for this program.		

TSA ASSESSMENTS FOR CLUSTER #6 TEACHING, TRAINING, & FACILITATION	CLARIFICATION/COMMENTS
Early Childhood Education and Care – NOCTI	Test Code 4116 or 4117
Education and Training – NOCTI	

AGRICULTURAL EDUCATION
CLUSTER #7 – ENERGY & NATURAL RESOURCES

CLUSTER #7 – ENERGY & NATURAL RESOURCES
CLEAN & ALTERNATIVE ENERGY

IRCS FOR CLUSTER #7 CLEAN & ALTERNATIVE ENERGY	CLARIFICATION & REPORTING CRITERIA	CODE
Natural Resources Conservation Service (NRCS) Fundamentals of Conservation & Sustainability in Agriculture Certification **NEW**	Student must pass test and complete 100 hours of natural resource related work-based learning experiences (outside of the classroom) as defined in the CTE Certificate to report as an IRC.	CONSERV

STACKABLE CREDENTIALS FOR CLUSTER #7 CLEAN & ALTERNATIVE ENERGY	CLARIFICATION & REPORTING CRITERIA	CODE
No approved stackable credentials for this program.		

TSA ASSESSMENTS FOR CLUSTER #7 CLEAN & ALTERNATIVE ENERGY	CLARIFICATION/COMMENTS
Agriculture Biotechnology – NOCTI	
Conservation – NOCTI	
Natural Resource Systems – NOCTI	
Production Agriculture – NOCTI	

CLUSTER #7 – ENERGY & NATURAL RESOURCES
CONSERVATION & LAND MANAGEMENT

IRCS FOR CLUSTER #7 CONSERVATION & LAND MANAGEMENT	CLARIFICATION & REPORTING CRITERIA	CODE
Ducks Unlimited Ecology Conservation & Management Certification **NEW**	Student must pass test and complete 100 hours of natural resource related work-based learning experiences (outside of the classroom) as defined in the CTE Certificate to report as an IRC.	ECO

MO Agriculture Skill & Knowledge Assessment-Forestry, Soils, Grasslands	MOASK Host Site Agreement – In-Person	AGSK
Natural Resources Conservation Service (NRCS) Fundamentals of Conservation & Sustainability in Agriculture Certification **NEW**	Student must pass test and complete 100 hours of natural resource related work-based learning experiences (outside of the classroom) as defined in the CTE Certificate to report as an IRC.	CONSERV

STACKABLE CREDENTIALS FOR CLUSTER #7 CONSERVATION & LAND MANAGEMENT	CLARIFICATION & REPORTING CRITERIA	CODE
No approved stackable credentials for this program.		

TSA ASSESSMENTS FOR CLUSTER #7 CONSERVATION & LAND MANAGEMENT	CLARIFICATION/COMMENTS
Agriculture Biotechnology – NOCTI	
Conservation – NOCTI	
Natural Resource Systems – NOCTI	
Production Agriculture – NOCTI	

CLUSTER #7 – ENERGY & NATURAL RESOURCES
ECOLOGICAL RESEARCH & DEVELOPMENT

IRCS FOR CLUSTER #7 ECOLOGICAL RESEARCH & DEVELOPMENT	CLARIFICATION & REPORTING CRITERIA	CODE
Ducks Unlimited Ecology Conservation & Management Certification **NEW**	Student must pass test and complete 100 hours of natural resource related work-based learning experiences (outside of the classroom) as defined in the CTE Certificate to report as an IRC.	ECO
MO Agriculture Skill & Knowledge Assessment-Forestry, Soils, Grasslands	MOASK Host Site Agreement – In-Person	AGSK
Natural Resources Conservation Service (NRCS) Fundamentals of Conservation & Sustainability in Agriculture Certification **NEW**	Student must pass test and complete 100 hours of natural resource related work-based learning experiences (outside of the classroom) as defined in the CTE Certificate to report as an IRC.	CONSERV

STACKABLE CREDENTIALS FOR CLUSTER #7 ECOLOGICAL RESEARCH & DEVELOPMENT	CLARIFICATION & REPORTING CRITERIA	CODE
No approved stackable credentials for this program.		

TSA ASSESSMENTS FOR CLUSTER #7 ECOLOGICAL RESEARCH & DEVELOPMENT	CLARIFICATION/COMMENTS
Agriculture Biotechnology – NOCTI	

Conservation – NOCTI	
Natural Resource Systems – NOCTI	
Production Agriculture – NOCTI	

CLUSTER #7 – ENERGY & NATURAL RESOURCES ENVIRONMENTAL PROTECTION		
IRCS FOR CLUSTER #7 ENVIRONMENTAL PROTECTION	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
Ducks Unlimited Ecology Conservation & Management Certification **NEW**	Student must pass test and complete 100 hours of natural resource related work-based learning experiences (outside of the classroom) as defined in the CTE Certificate to report as an IRC.	ECO
MO Agriculture Skill & Knowledge Assessment-Forestry, Soils, Grasslands	MOASK Host Site Agreement – In-Person	AGSK
Natural Resources Conservation Service (NRCS) Fundamentals of Conservation & Sustainability in Agriculture Certification **NEW**	Student must pass test and complete 100 hours of natural resource related work-based learning experiences (outside of the classroom) as defined in the CTE Certificate to report as an IRC.	CONSERV

STACKABLE CREDENTIALS FOR CLUSTER #7 ENVIRONMENTAL PROTECTION	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
No approved stackable credentials for this program.		

TSA ASSESSMENTS FOR CLUSTER #7 ENVIRONMENTAL PROTECTION	**CLARIFICATION/COMMENTS**
Agriculture Biotechnology – NOCTI	
Conservation – NOCTI	
Natural Resource Systems – NOCTI	

BUSINESS EDUCATION
CLUSTER #8 – FINANCIAL SERVICES
formerly cluster #6

IRCS FOR CLUSTER #8 FINANCIAL SERVICES	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
Intuit QuickBooks Online Certified User **NEW**		QUICK
Microsoft Office Specialist ACE	Student must pass Microsoft Word, Microsoft Excel, and Microsoft PowerPoint.	MOS

STACKABLE CREDENTIALS FOR CLUSTER #8 FINANCIAL SERVICES SECTION 1	CLARIFICATION & REPORTING CRITERIA	CODE
Concepts of Finance – ASK Institute	• For a student to be calculated as having earned an IRC, they must also earn a credential from Section 2. • Additionally, students must complete at least 50 hours of work-based learning aligned with this career cluster to report as a stackable credential.	S-ASK-FIN

STACKABLE CREDENTIALS FOR CLUSTER #8 FINANCIAL SERVICES SECTION 2	CLARIFICATION & REPORTING CRITERIA	CODE
Data Analytics I: Harnessing the Power of Data	• For a student to be calculated as having earned an IRC, they must also earn a credential from Section 1.	S-NC3DA
Employability Skills – CareerSafe	• For a student to be calculated as having earned an IRC, they must also earn a credential from Section 1. • Students must pass all modules of this credential and complete at least 50 hours of work-based learning aligned with this career cluster to report as a stackable credential. If paired with Concepts of Finance, the student only needs 50 hours total (not 50 hours for each).	S-EMP
Professional Communication **NEW**	For a student to be calculated as having earned an IRC, they must also earn a credential from Section 1.	S-PROCO

TSA ASSESSMENTS FOR CLUSTER #8 FINANCIAL SERVICES	CLARIFICATION/COMMENTS
Accounting Advanced – NOCTI	Postsecondary only
Accounting Basic – NOCTI	

FAMILY CONSUMER SCIENCES AND HUMAN SERVICES (FCSHS) EDUCATION
CLUSTER #9 – HEALTHCARE & HUMAN SERVICES
formerly cluster #10

CLUSTER #9 – HEALTHCARE & HUMAN SERVICES
COMMUNITY & SOCIAL SERVICES

FCSHS IRCS FOR CLUSTER #9 COMMUNITY & SOCIAL SERVICES	CLARIFICATION/ REPORTING CRITERIA	CODE
There are no IRCs approved for this program.		

FCSHS STACKABLE CREDENTIALS FOR CLUSTER #9 COMMUNITY & SOCIAL SERVICES	CLARIFICATION/ REPORTING CRITERIA	CODE
No stackable credentials approved for this program.		

FCSHS TSA ASSESSMENTS FOR CLUSTER #9 COMMUNITY & SOCIAL SERVICES	CLARIFICATION/COMMENTS	
Broad Field Family and Consumer Sciences – AAFCS		
Family and Community Services – AAFCS		

CLUSTER #9 – HEALTHCARE & HUMAN SERVICES PERSONAL CARE SERVICES		
FCSHS IRCS FOR CLUSTER #9 PERSONAL CARE SERVICES	**CLARIFICATION/ REPORTING CRITERIA**	**CODE**
Barbering – MO Division of Professional Registration **NEW**		BARBER
Cosmetology – MO Division of Professional Registration		CSCBE
Nail Care – State Cosmetology Board	Nail Technician—Missouri State Board of Cosmetology and Barber Examiners—Manicure	NTSCBE

FCSHS STACKABLE CREDENTIALS FOR CLUSTER #9 PERSONAL CARE SERVICES	CLARIFICATION/ REPORTING CRITERIA	CODE
No stackable credentials approved for this program.		

FCSHS TSA ASSESSMENTS FOR CLUSTER #9 PERSONAL CARE SERVICES	CLARIFICATION/COMMENTS	
Cosmetology – NOCTI		
Massage Therapists – MO Division of Professional Registration		

HEALTH SCIENCE EDUCATION
CLUSTER #9 – HEALTHCARE & HUMAN SERVICES
formerly cluster #8

CLUSTER #9 – HEALTHCARE & HUMAN SERVICES DENTAL ASSISTANT – CIP CODE 51.0601		
HEALTH SCIENCE IRCS FOR CLUSTER #9 DENTAL ASSISTANT	**CLARIFICATION/ REPORTING CRITERIA**	**CODE**
Certified Dental Assistant, Infection Control Exam (CDAICE) – Dental Assisting National Board, Inc.	Student must earn fifty (50) **work-based learning** hours in addition to passing the exam to report as an IRC. Laboratory/Simulation experiences can count toward twenty-five (25) of the fifty (50) work-based learning hours.	CDAICE

Certified Dental Assistant, Radiation Health & Safety Exam (RHS) – Dental Assisting National Board, Inc.	Student must earn fifty (50) **work-based learning** hours in addition to passing the exam to report as an IRC. Laboratory/Simulation experiences can count toward twenty-five (25) of the fifty (50) work-based learning hours.	CDARHS
Missouri Assessment of Basic Dental Assisting Skills	Student must earn fifty (50) **work-based learning** hours in addition to passing the exam to report as an IRC. Laboratory/Simulation experiences can count toward twenty-five (25) of the fifty (50) work-based learning hours.	MABDAS

HEALTH SCIENCE STACKABLE CREDENTIALS FOR CLUSTER #9 DENTAL ASSISTANT	CLARIFICATION/ REPORTING CRITERIA	CODE
No stackable credentials approved for this program.		

HEALTH SCIENCE TSA ASSESSMENTS FOR CLUSTER #9 DENTAL ASSISTANT	CLARIFICATION/COMMENTS
No TSAs approved for this program.	

CLUSTER #9 – HEALTHCARE & HUMAN SERVICES DENTAL HYGIENE/HYGIENIST – CIP CODE 51.0602		
HEALTH SCIENCE IRCS FOR CLUSTER #9 DENTAL HYGIENE/HYGIENIST	**CLARIFICATION/ REPORTING CRITERIA**	**CODE**
No IRCs are approved for this program.		

HEALTH SCIENCE STACKABLE CREDENTIALS FOR CLUSTER #9 DENTAL HYGIENE/HYGIENIST	CLARIFICATION/ REPORTING CRITERIA	CODE
No stackable credentials approved for this program.		

HEALTH SCIENCE TSA ASSESSMENTS FOR CLUSTER #9 DENTAL HYGIENE/HYGIENIST	CLARIFICATION/COMMENTS
Dental Hygienist – Missouri Division of Professional Registration Dental Board	Postsecondary only

CLUSTER #9 – HEALTHCARE & HUMAN SERVICES EMERGENCY MEDICAL TECHNICIAN (EMT) – CIP CODE 51.0904		
HEALTH SCIENCE IRCS FOR CLUSTER #9 EMT	**CLARIFICATION/ REPORTING CRITERIA**	**CODE**
EMT-Basic – NREMT		NREMT
Certified EKG Technician – NHA	Student must earn fifty (50) **work-based learning** hours in addition to passing the exam to earn the IRC. Laboratory/Simulation experiences can count toward twenty-five (25) of the fifty (50) work-based learning hours.	EKG

HEALTH SCIENCE STACKABLE CREDENTIALS FOR CLUSTER #9 EMT	CLARIFICATION/ REPORTING CRITERIA	CODE
No stackable credentials approved for this program.		

HEALTH SCIENCE TSA ASSESSMENTS FOR CLUSTER #9 EMT	CLARIFICATION/COMMENTS
Emergency Medical Responder (EMR) – National Registry of Emergency Medical Technicians (NREMT)	

CLUSTER #9 – HEALTHCARE & HUMAN SERVICES HEALTH SERVICE AIDE – CIP CODE 51.2601		
HEALTH SCIENCE IRCS FOR CLUSTER #9 HEALTH SERVICE AIDE	**CLARIFICATION/ REPORTING CRITERIA**	**CODE**
Certified Nurse Aide (CNA) – Missouri Department of Health and Senior Services		CNA
Certified Nurse Assistant (CNA) Training - Missouri Health Care Association	Approved Health Service Aide program must have a signed agreement with the Missouri Health Care Association and partner according to the Department of Health and Senior Services rules and regulations for students to earn the IRC.	CNA-M
Certified Patient Care Technician/Assistant - NHA	Approved Health Service Aide program must adhere to the Unlicensed Assistive Personnel Training Program rules and regulations beginning on page 23 requiring a minimum of seventy-five (75) hours of classroom instruction and a minimum of one hundred (100) hours of clinical practicum.	CPCT/A
Certified Phlebotomy Technician - AMCA	Students must have successfully performed a minimum of thirty (30) venipunctures and ten (10) capillary or finger sticks on live individuals in addition to passing the exam to earn the IRC.	PH/AMCA
Certified Phlebotomy Technician – NHA	Students must have successfully performed a minimum of thirty (30) venipunctures and ten (10) capillary or finger sticks on live individuals in addition to passing the exam to earn the IRC.	PH/NHA
Certified EKG Technician – NHA	Students must earn fifty (50) **work-based learning** hours in addition to passing the exam to earn the IRC. Laboratory/Simulation experiences can count toward twenty-five (25) of the fifty (50) work-based learning hours.	EKG

HEALTH SCIENCE STACKABLE CREDENTIALS FOR CLUSTER #9 HEALTH SERVICE AIDE	CLARIFICATION/ REPORTING CRITERIA	CODE
No stackable credentials approved for this program.		

HEALTH SCIENCE TSA ASSESSMENTS FOR CLUSTER #9 HEALTH SERVICE AIDE	CLARIFICATION/COMMENTS
Essential Healthcare Practices Stackable Certificate – National Consortium for Health Science Education (NCHSE)	Secondary only
Foundations of Healthcare Professions Stackable Certificate – National Consortium for Health Science Education (NCHSE)	Secondary only
National Health Science Certificate – National Consortium for Health Science Education (NCHSE)	Secondary only

CLUSTER #9 – HEALTHCARE & HUMAN SERVICES LICENSED PRACTICAL/VOCATIONAL NURSE TRAINING – CIP CODE 51.3901		
HEALTH SCIENCE IRCS FOR CLUSTER #9 LICENSED PRACTICAL/VOCATIONAL NURSE TRAINING	**CLARIFICATION/ REPORTING CRITERIA**	**CODE**
No IRCs approved for this program.		

HEALTH SCIENCE STACKABLE CREDENTIALS FOR CLUSTER #9 LICENSED PRACTICAL/VOCATIONAL NURSE TRAINING	CLARIFICATION/ REPORTING CRITERIA	CODE
No stackable credentials approved for this program.		

HEALTH SCIENCE TSA ASSESSMENTS FOR CLUSTER #9 LICENSED PRACTICAL/VOCATIONAL NURSE TRAINING	CLARIFICATION/COMMENTS
NCLEX-PN Practical Nursing – Missouri Division of Professional Registration Board of Nursing	

CLUSTER #9 – HEALTHCARE & HUMAN SERVICES MEDICAL ASSISTANT – CIP CODE 51.0801		
HEALTH SCIENCE IRCS FOR CLUSTER #9 MEDICAL ASSISTANT	**CLARIFICATION/ REPORTING CRITERIA**	**CODE**
Certified Clinical Medical Assistant – AMCA	Students must earn fifty (50) **work-based learning** hours in addition to passing the exam to the earn IRC. Laboratory/Simulation experiences can count toward twenty-five (25) of the fifty (50) work-based learning hours.	CCMA-AMCA
Certified Clinical Medical Assistant – NHA	Students must earn fifty (50) **work-based learning** hours in addition to passing the exam to the earn the IRC. Laboratory/Simulation experiences can count toward twenty-five (25) of the fifty (50) work-based learning hours.	CCMA-NHA

HEALTH SCIENCE STACKABLE CREDENTIALS FOR CLUSTER #9 MEDICAL ASSISTANT	CLARIFICATION/ REPORTING CRITERIA	CODE
No stackable credentials approved for this program.		

HEALTH SCIENCE TSA ASSESSMENTS FOR CLUSTER #9 MEDICAL ASSISTANT	CLARIFICATION/COMMENTS
No TSAs approved for this program.	

CLUSTER #9 – HEALTHCARE & HUMAN SERVICES MEDICAL RADIOLOGIC TECHNOLOGY/SCIENCE-RADIATION THERAPIST – CIP CODE 51.0907		
HEALTH SCIENCE IRCS FOR CLUSTER #9 MEDICAL RADIOLOGIC TECHNOLOGY/SCIENCE-RADIATION THERAPIST	**CLARIFICATION/ REPORTING CRITERIA**	**CODE**
No IRCs approved for this program.		

HEALTH SCIENCE STACKABLE CREDENTIALS FOR CLUSTER #9 MEDICAL RADIOLOGIC TECH/SCIENCE-RADIATION THERAPIST	CLARIFICATION/ REPORTING CRITERIA	CODE
No stackable credentials approved for this program.		

HEALTH SCIENCE TSA ASSESSMENTS FOR CLUSTER #9 MEDICAL RADIOLOGIC TECH/SCIENCE-RADIATION THERAPIST	CLARIFICATION/COMMENTS
Radiologic Technologist – American Registry of Radiologic Technologists (ARRT)	Postsecondary only

CLUSTER #9 – HEALTHCARE & HUMAN SERVICES PHARMACY TECHNICIAN/ASSISTANT – CIP CODE 51.0805		
HEALTH SCIENCE IRCS FOR CLUSTER #9 PHARMACY TECHNICIAN/ASSISTANT	**CLARIFICATION/ REPORTING CRITERIA**	**CODE**
No IRCs approved for this program.		

HEALTH SCIENCE STACKABLE CREDENTIALS FOR CLUSTER #9 PHARMACY TECHNICIAN/ASSISTANT	CLARIFICATION/ REPORTING CRITERIA	CODE
No stackable credentials approved for this program.		

HEALTH SCIENCE TSA ASSESSMENTS FOR CLUSTER #9 PHARMACY TECHNICIAN/ASSISTANT	CLARIFICATION/COMMENTS
Pharmacy Technician – Aztec	Secondary only
Pharmacy Technician – National Healthcareer Association	Secondary only
Pharmacy Technician – Pharmacy Technician Certification Board	Secondary only

CLUSTER #9 – HEALTHCARE & HUMAN SERVICES PLTW-BIOMEDICAL SCIENCE – CIP CODE 51.0001 PRINCIPLES OF BIOMEDICAL SCIENCE, HUMAN BODY SYSTEMS, MEDICAL INTERVENTION; BIOMEDICAL INNOVATIONS/PLTW CAPSTONE)		
HEALTH SCIENCE IRCS FOR CLUSTER #9 PLTW-BIOMEDICAL SCIENCE	**CLARIFICATION/ REPORTING CRITERIA**	**CODE**
Biotechnology Assistant Credentialing Exam		BACE
Bioscience Core Skills Institute	Students must pass all five credentials to earn as a stackable credential.	BCSI

HEALTH SCIENCE STACKABLE CREDENTIALS FOR CLUSTER #9 PLTW-BIOMEDICAL SCIENCE	CLARIFICATION/ REPORTING CRITERIA	CODE
No stackable credentials approved for this program.		

HEALTH SCIENCE TSA ASSESSMENTS FOR CLUSTER #9 PLTW-BIOMEDICAL SCIENCE	CLARIFICATION/COMMENTS
Project Lead The Way: Biomedical Science	Secondary student must pass two of three Biomedical Science EOCs: PLTW EOC Score Chart.

CLUSTER #9 – HEALTHCARE & HUMAN SERVICES REGISTERED NURSING/REGISTERED NURSE – CIP CODE 51.3801		
HEALTH SCIENCE IRCS FOR CLUSTER #9 REGISTERED NURSING/REGISTERED NURSE	**CLARIFICATION/ REPORTING CRITERIA**	**CODE**
No IRCs approved for this program.		

HEALTH SCIENCE STACKABLE CREDENTIALS FOR CLUSTER #9 REGISTERED NURSING/REGISTERED NURSE	CLARIFICATION/ REPORTING CRITERIA	CODE
No stackable credentials approved for this program.		

HEALTH SCIENCE TSA ASSESSMENTS FOR CLUSTER #9 REGISTERED NURSING/REGISTERED NURSE	CLARIFICATION/COMMENTS
NCLEX-RN Associate Degree Nursing – Missouri Division of Professional Registration Board of Nursing	Postsecondary only

CLUSTER #9 – HEALTHCARE & HUMAN SERVICES RESPIRATORY CARE THERAPY/THERAPIST – CIP CODE 51.0908		
HEALTH SCIENCE IRCS FOR CLUSTER #9 RESPIRATORY CARE THERAPY/THERAPIST	**CLARIFICATION/ REPORTING CRITERIA**	**CODE**
No IRCS approved for this program.		

HEALTH SCIENCE STACKABLE CREDENTIALS FOR CLUSTER #9 RESPIRATORY CARE THERAPY/THERAPIST	CLARIFICATION/ REPORTING CRITERIA	CODE
No stackable credentials approved for this program.		

HEALTH SCIENCE TSA ASSESSMENTS FOR CLUSTER #9 RESPIRATORY CARE THERAPY/THERAPIST	CLARIFICATION/COMMENTS
Respiratory Therapist – National Board of Respiratory Care	Postsecondary only

CLUSTER #9 – HEALTHCARE & HUMAN SERVICES SPORTS MEDICINE – CIP CODE 51.2604		
HEALTH SCIENCE IRCS FOR CLUSTER #9 SPORTS MEDICINE	**CLARIFICATION/ REPORTING CRITERIA**	**CODE**
ACE Certified Personal Trainer	Students must earn fifty (50) **work-based learning** hours in addition to passing the exam to the earn the IRC. Laboratory/Simulation experiences can count toward twenty-five (25) of the fifty (50) work-based learning hours.	ACECPT
National Academy of Sports Medicine Certified Personal Trainer	Students must earn fifty (50) **work-based learning** hours in addition to passing the exam to the earn the IRC. Laboratory/Simulation experiences can count toward twenty-five (25) of the fifty (50) work-based learning hours.	NASMCPT

HEALTH SCIENCE STACKABLE CREDENTIALS FOR CLUSTER #9 SPORTS MEDICINE	CLARIFICATION/ REPORTING CRITERIA	CODE
No stackable credentials approved for this program.		

HEALTH SCIENCE TSA ASSESSMENTS FOR CLUSTER #9 SPORTS MEDICINE	CLARIFICATION/COMMENTS
Emergency Medical Responder (EMR)	

CLUSTER #9 – HEALTHCARE & HUMAN SERVICES SURGICAL TECHNOLOGY/TECHNOLOGIST – CIP CODE 51.0909		
HEALTH SCIENCE IRCS FOR CLUSTER #9 SURGICAL TECHNOLOGY/TECHNOLOGIST	**CLARIFICATION/ REPORTING CRITERIA**	**CODE**
No IRCs approved for this program.		

HEALTH SCIENCE STACKABLE CREDENTIALS FOR CLUSTER #9 SURGICAL TECHNOLOGY/TECHNOLOGIST	CLARIFICATION/ REPORTING CRITERIA	CODE
No stackable credentials approved for this program.		

HEALTH SCIENCE TSA ASSESSMENTS FOR CLUSTER #9 SURGICAL TECHNOLOGY/TECHNOLOGIST	CLARIFICATION/COMMENTS
Surgical Technologist – National Board of Surgical Technology and Surgical Assisting (NBSTSA)	Postsecondary only

FAMILY CONSUMER SCIENCES AND HUMAN SERVICES EDUCATION
CLUSTER #10 – HOSPITALITY, EVENTS, & TOURISM
formerly cluster #9

CLUSTER #10 – HOSPITALITY, EVENTS, & TOURISM ACCOMMODATIONS

IRCS FOR CLUSTER #10 ACCOMMODATIONS	CLARIFICATION & REPORTING CRITERIA	CODE
Hospitality and Tourism Management (HTM) I & II – American Hotel and Lodging Educational Institute (AHLEI)	To earn AHLEI's Hospitality Tourism Specialist (HTS) credential, a student must complete the requirements as outlined by the American Hotel & Lodging Educational Institute (AHLEI).	AHLA

STACKABLE CREDENTIALS FOR CLUSTER #10 ACCOMMODATIONS	CLARIFICATION & REPORTING CRITERIA	CODE
No stackable credentials approved for this program.		

TSA ASSESSMENTS FOR CLUSTER #10 ACCOMMODATIONS	CLARIFICATION/COMMENTS
Guest Service Gold: Tourism – American Hotel and Lodging Educational Institute (AHLEI)	
Hospitality and Tourism Management (HTM) I & II – American Hotel and Lodging Educational Institute (AHLEI)	Students must pass the HTM I and HTM II final exams.
Hospitality Management-Lodging Option – NOCTI	
Travel and Tourism – NOCTI	

CLUSTER #10 – HOSPITALITY, EVENTS, & TOURISM CULINARY & FOOD SERVICES

IRCS FOR CLUSTER #10 CULINARY & FOOD SERVICES	CLARIFICATION & REPORTING CRITERIA	CODE
Culinary Arts Cook – NOCTI-ACF	To earn the Certified Fundamentals Cook (CFC) Certification, a student must complete the Certified Fundamentals Cook Requirements as outlined by the American Culinary Education Foundation (ACF).	ACF
Culinary Arts – AAFCS		AAFCS-CA

National ProStart Certificate of Achievement (COA) – National Restaurant Association Education Foundation	To earn the Certificate of Achievement (COA), a student must complete the requirements as outlined by the National Restaurant Association Education Foundation (NRAEF).	PROSTART
ServSafe Food Handler plus ServSafe Food Protection Manager certifications ACE	For a student to be calculated as having earned an IRC, student must earn both certifications.	SERVS

STACKABLE CREDENTIALS FOR CLUSTER #10 CULINARY & FOOD SERVICES	CLARIFICATION & REPORTING CRITERIA	CODE
No stackable credentials approved for this program.		

TSA ASSESSMENTS FOR CLUSTER #10 CULINARY & FOOD SERVICES	CLARIFICATION/COMMENTS
ACF Certification Assessment – NOCTI	Must complete the requirements for an accredited ACF program and pass the written exam with a score of at least 70%. Test Code 4536
Commercial Foods – NOCTI	
Culinary Arts Prep Cook – NOCTI	
Food Science – AAFCS	
Guest Service Gold: Tourism - American Hotel and Lodging Educational Institute (AHLEI)	
Hospitality Mgmt-Food & Beverage Option – NOCTI	
Nutrition – AAFCS	
ProStart I & II – National Restaurant Association Education Foundation	Students must pass Foundations of Restaurant Management and Culinary Arts Level I & Level II exams.
Restaurant, Food and Beverage Services – NOCTI	
Retail Commercial Baking – NOCTI	

BUSINESS EDUCATION
CLUSTER #11 – MANAGEMENT & ENTREPRENEURSHIP
formerly cluster #4

IRCS FOR CLUSTER #11 MANAGEMENT & ENTREPRENEURSHIP	CLARIFICATION & REPORTING CRITERIA	CODE
Introduction to Business Certification – Stukent **NEW**		IBC
Microsoft Office Specialist ACE	Student must pass Microsoft Word, Microsoft Excel, and Microsoft PowerPoint.	MOS

STACKABLE CREDENTIALS FOR CLUSTER #11 MANAGEMENT & ENTREPRENEURSHIP SECTION 1	CLARIFICATION & REPORTING CRITERIA	CODE
Concepts of Entrepreneurship – ASK Institute	For a student to be calculated as having earned an IRC, they must also earn a credential from Section 2.	S-COE
Fundamental Business Concepts – ASK Institute	For a student to be calculated as having earned an IRC, they must also earn a credential from Section 2.	S-ASK
Tosa Desktop Certified User for Google Workspace **NEW**	• For a student to be calculated as having earned an IRC, they must also earn a credential from Section 2. • Students must pass the Sheets, Docs, and Slides to report as a stackable credential.	S-TGOOGLE
Tosa Desktop Certified Microsoft Office **NEW**	• For a student to be calculated as having earned an IRC, they must also earn a credential from Section 2. • Students must pass Microsoft Word, Microsoft Excel, and Microsoft PowerPoint to report as a stackable credential.	S-TMICRO
Professional Communication **NEW**	For a student to be calculated as having earned an IRC, they must also earn a credential from Section 2.	S-PROCO

STACKABLE CREDENTIALS FOR CLUSTER #11 MANAGEMENT & ENTREPRENEURSHIP SECTION 2	CLARIFICATION & REPORTING CRITERIA	CODE
Employability Skills – CareerSafe	• For a student to be calculated as having earned an IRC, they must also earn a credential from Section 1. • Additionally, students must pass all modules of this credential and complete at least 50 hours of work-based learning aligned with this career cluster to report as a stackable credential.	S-EMP
PMI Project Management Ready	For a student to be calculated as having earned an IRC, they must also earn a credential from Section 1.	S-PPMR
Six Sigma Yellow Belt	For a student to be calculated as having earned an IRC, they must also earn a credential from Section 1.	S-SSYB
Data Analytics I: Harnessing the Power of Data	For a student to be calculated as having earned an IRC, they must also earn a credential from Section 1.	S-NC3DA

TSA ASSESSSMENTS FOR CLUSTER #11 MANAGEMENT & ENTREPRENEURSHIP	CLARIFICATION/COMMENTS	
No TSAs approved for this program.		

MARKETING EDUCATION
CLUSTER #12 – MARKETING & SALES
formerly cluster #14

IRCS FOR CLUSTER #12 MARKETING & SALES	CLARIFICATION & REPORTING CRITERIA	CODE
Business of Retail Certified Specialist – NRF Foundation **NEW**		RETAIL
Content Creation & Marketing Using Adobe Express **NEW**		CCM
Microsoft Office Specialist ACE	Student must pass Microsoft Word, Microsoft Excel, and Microsoft PowerPoint.	MOS
MoMark – MBA Research	• MoMark is for the Marketing Cluster Exam only. Cut score is 70%. Must have a proctor who is not the classroom teacher. • Students must also complete at least 50 hours of work-based learning aligned with this career cluster to report as an IRC.	MOMARK

STACKABLE CREDENTIALS FOR CLUSTER #12 MARKETING & SALES SECTION 1	CLARIFICATION & REPORTING CRITERIA	CODE
Customer Service and Sales Certified Specialist – NRF Foundation	For a student to be calculated as having earned an IRC, they must also earn a credential from Section 2.	S-NRFFCS
Professional Communication **NEW**	For a student to be calculated as having earned an IRC, they must also earn a credential from Section 2.	S-PROCO
Retail Industry Fundamentals Specialist - NRF	For a student to be calculated as having earned an IRC, they must also earn a credential from Section 2.	S-NRFFRIF
Stukent Marketing Certification **NEW**	For a student to be calculated as having earned an IRC, they must also earn a credential from Section 2.	S-STUM

STACKABLE CREDENTIALS FOR CLUSTER #12 MARKETING & SALES SECTION 2	CLARIFICATION & REPORTING CRITERIA	CODE
Concepts of Entrepreneurship – ASK Institute	For a student to be calculated as having earned an IRC, they must also earn a credential from Section 1.	S-ENTRE
Data Analytics I: Harnessing the Power of Data	For a student to be calculated as having earned an IRC, they must also earn a credential from Section 1.	S-NC3DA
Employability Skills – CareerSafe	• For a student to be calculated as having earned an IRC, they must also earn a credential from Section 1. • Additionally, students must pass all modules of this credential and complete at least 50 hours of work-based learning aligned with this career cluster to report as a stackable credential.	S-EMP

Fundamental Marketing Concepts – ASK Institute	For a student to be calculated as having earned an IRC, they must also earn a credential from Section 1.	S-MARK
Six Sigma Yellow Belt	For a student to be calculated as having earned an IRC, they must also earn a credential from Section 1.	S-SSYB

TSA ASSESSMENTS FOR CLUSTER #12 MARKETING & SALES	CLARIFICATION/COMMENTS	
21st Century Skills for Workplace Success – NOCTI	Approved for CCE programs only beginning 2024-25 school year.	
Marketing End of Program – MBA Research		

SKILLED TECHNICAL SCIENCES EDUCATION
CLUSTER #13 – PUBLIC SERVICE & SAFETY
formerly cluster #12

CLUSTER #13 – PUBLIC SERVICE & SAFETY
CRIMINAL JUSTICE TECHNOLOGY – CIP CODE 43.0107
LAW ENFORCEMENT TRAINING – CIP CODE 43.0107

IRCS FOR CLUSTER #13 CRIMINAL JUSTICE TECHNOLOGY AND LAW ENFORCEMENT TRAINING	CLARIFICATION & REPORTING CRITERIA	CODE
Missouri Law Enforcement Skills and Knowledge MOLESK	The student must first meet the requirements found on the student qualification form. The IRC is earned once the student passes the performance component. Host testing sites must be approved and registered; all sites must adhere to all MOLESK testing protocols for assessments to be valid.	MOLESK

STACKABLE CREDENTIALS FOR CLUSTER #13 CRIMINAL JUSTICE TECHNOLOGY AND LAW ENFORCEMENT TRAINING SECTION 1	CLARIFICATION & REPORTING CRITERIA	CODE
911 Telecommunications	For a student to be calculated as having earned an IRC, they must also earn two credentials in Section 2.	S-911
Public Safety Telecommunicator Certification	For a student to be calculated as having earned an IRC, they must also earn two credentials in Section 2.	S-PSTELE

STACKABLE CREDENTIALS FOR CLUSTER #13 CRIMINAL JUSTICE TECHNOLOGY AND LAW ENFORCEMENT TRAINING SECTION 2	CLARIFICATION & REPORTING CRITERIA	CODE
Employability Skills – CareerSafe	• Students must pass all modules and complete at least 50 hours of work-based learning aligned with this career cluster to report as a stackable credential. • For a student to be calculated as having earned an IRC, they must also earn another credential from Section 2 and one credential in Section 1.	S-EMP
FEMA Incident Command System 100, 200 & 700	• Students must pass 100, 200, and 700 to earn this one stackable credential. • For a student to be calculated as having earned an IRC, they must also earn another credential from Section 2 and one credential in Section 1.	S-FICS
Fire I plus Hazmat	• Students must pass both to earn this one stackable credential. • For a student to be calculated as having earned an IRC, they must also earn another credential from Section 2 and one credential in Section 1.	S-FIREHAZ
CPR-First Aid **NEW**	For a student to be calculated as having earned an IRC, they must also earn another credential from Section 2 and one credential in Section 1.	S-CPR
FAA Drone **NEW**	For a student to be calculated as having earned an IRC, they must also earn another credential from Section 2 and one credential in Section 1.	S-DRONE
National Traffic Incident Management (TIM) Responder Certification **NEW**	For a student to be calculated as having earned an IRC, they must also earn another credential from Section 2 and one credential in Section 1.	S-TIM
Stop the Bleed **NEW**	For a student to be calculated as having earned an IRC, they must also earn another credential from Section 2 and one credential in Section 1.	S-STOPBLE
EMT Basic – NREMT **NEW**	For a student to be calculated as having earned an IRC, they must also earn another credential from Section 2 and one credential in Section 1.	S-STSEMT

TSA ASSESSMENTS FOR CLUSTER #13 CRIMINAL JUSTICE TECHNOLOGY AND LAW ENFORCEMENT TRAINING	CLARIFICATION/COMMENTS
Criminal Justice – NOCTI	
Criminal Justice – Precision Exams	Students must complete one of the following: Medical Forensics or Criminal Justice Fundamentals.
Missouri Law Enforcement Skills and Knowledge MOLESK	Students must pass only the written assessment.

CLUSTER #13 – PUBLIC SERVICE & SAFETY FIRE CONTROL AND SAFETY TECHNOLOGY – CIP CODE 43.0201 FIRE SCIENCE AND FIRE FIGHTING – CIP CODE 43.0203		
IRCS FOR CLUSTER #13 FIRE CONTROL AND SAFETY TECH AND FIRE SCIENCE AND FIRE FIGHTING	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
Firefighter I & II – MO Division of Fire Safety (Fire and Rescue Training Institute, University of Missouri)	Students must pass both Firefighter I and II.	FIREII

STACKABLE CREDENTIALS FOR CLUSTER #13 FIRE CONTROL AND SAFETY TECH AND FIRE SCIENCE AND FIRE FIGHTING	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
No stackable credentials approved for this program.		

TSA ASSESSMENTS FOR CLUSTER #13 FIRE CONTROL AND SAFETY TECH AND FIRE SCIENCE AND FIRE FIGHTING	**CLARIFICATION/COMMENTS**
Emergency and Fire Management Services – NOCTI	

SKILLED TECHNICAL SCIENCES EDUCATION
CLUSTER #14 – SUPPLY CHAIN & TRANSPORTATION
formerly cluster #16

CLUSTER #14 – SUPPLY CHAIN & TRANSPORTATION AIRCRAFT MECHANICS, AIRFRAME – CIP CODE 47.0607 AIRCRAFT MECHANICS, POWERFRAME – CIP CODE 47.0608		
IRCS FOR CLUSTER #14 AIRCRAFT MECHANICS, AIRFRAME & AIRCRAFT MECHANICS, POWERFRAME	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
FAA Aviation Maintenance Technician-General		FAA-AMT

STACKABLE CREDENTIALS FOR CLUSTER #14 AIRCRAFT MECHANICS, AIRFRAME & AIRCRAFT MECHANICS, POWERFRAME	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
No stackable credentials approved for this program.		

TSA ASSESSMENTS FOR CLUSTER #14 AIRCRAFT MECHANICS, AIRFRAME & AIRCRAFT MECHANICS, POWERFRAME	**CLARIFICATION/COMMENTS**	
FAA written exam		

CLUSTER #14 – SUPPLY CHAIN & TRANSPORTATION AUTOBODY/COLLISION AND REPAIR TECH/TECHNICIAN – CIP CODE 47.0603		
IRCS FOR CLUSTER #14 AUTOBODY/COLLISION AND REPAIR TECH/TECHNICIAN	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
Collision Repair – I-CAR	I-Car Academy schools must pass all five End of Badge exams, which must all be administered by a proctor other than the instructor.	ICAR
Collision Repair & Refinish – ASE	Student must pass the Entry-Level Painting and Refinishing exam **and** the Entry-Level Non-structural Analysis and Damage Repair exam.	ASE-C

STACKABLE CREDENTIALS FOR CLUSTER #14 AUTOBODY/COLLISION AND REPAIR TECH/TECHNICIAN	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
No stackable credentials approved for this program.		

TSA ASSESSMENTS FOR CLUSTER #14 AUTOBODY/COLLISION AND REPAIR TECH/TECHNICIAN	**CLARIFICATION/COMMENTS**
Collision Repair & Refinish – ASE	Student must pass the Entry-Level Painting and Refinishing exam **or** the Entry Level Non-structural Analysis and Damage Repair exam.
Collision Repair/Refinishing Technology (combination) – NOCTI	
Collision Repair – I-CAR	I-Car Academy Schools must pass the End of Badge Exam for any three of the five Badges which must be administered by a proctor other than the instructor.
Collision Repair – NOCTI	

CLUSTER #14 – SUPPLY CHAIN & TRANSPORTATION AUTO MECHANICS – CIP CODE 47.0604		
IRCS FOR CLUSTER #14 AUTO MECHANICS	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
Automotive Technician Examination – ASE (Student Certification)	Students must pass Maintenance and Light Repair **plus** Electrical/Electronic Systems **and one** of the following: brakes, engine performance, engine repair, steering and suspension, HVAC, manual drive train and axles, automatic transmission/transaxle.	ASE

STACKABLE CREDENTIALS FOR CLUSTER #14 AUTO MECHANICS	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
No stackable credentials approved for this program.		

TSA ASSESSMENTS FOR CLUSTER #14 AUTO MECHANICS	**CLARIFICATION/COMMENTS**
Auto Technology – Today's Class	
Automotive Technician Advanced – NOCTI	

Automotive Technician Core – NOCTI	
Automotive Technician Examination – ASE (Student Certification)	Students must pass three of the four assessments listed in IRC section.

CLUSTER #14 – SUPPLY CHAIN & TRANSPORTATION
AVIATION MANAGEMENT – CIP CODE 49.0104
REMOTE AIRCRAFT PILOT – CIP CODE 49.0109

IRCS FOR CLUSTER #14 AVIATION MANAGEMENT AND REMOTE AIRCRAFT PILOT	CLARIFICATION & REPORTING CRITERIA	CODE
FAA Part 107		FAA-RPL

STACKABLE CREDENTIALS FOR CLUSTER #14 AVIATION MANAGEMENT AND REMOTE AIRCRAFT PILOT	CLARIFICATION & REPORTING CRITERIA	CODE
No stackable credentials approved for this program.		

TSA ASSESSMENTS FOR CLUSTER #14 AVIATION MANAGEMENT AND REMOTE AIRCRAFT PILOT	CLARIFICATION/COMMENTS
FAA written exam	

CLUSTER #14 – SUPPLY CHAIN & TRANSPORTATION
DIESEL MECHANICS – CIP CODE 47.0605

IRCS FOR CLUSTER #14 DIESEL MECHANICS	CLARIFICATION & REPORTING CRITERIA	CODE
Medium/Heavy Truck (Diesel)	Students must pass Inspection Maintenance, Minor Repair **and** Electrical/Electronic Systems **plus one** of the following: Brakes, Diesel Engines, Suspension and Steering.	ASE-D

STACKABLE CREDENTIALS FOR CLUSTER #14 DIESEL MECHANICS	CLARIFICATION & REPORTING CRITERIA	CODE
No stackable credentials approved for this program.		

TSA ASSESSMENTS FOR CLUSTER #14 DIESEL MECHANICS	CLARIFICATION/COMMENTS
Diesel Engine Technology – NOCTI	
Heavy Equipment Maintenance and Repair – NOCTI	
Medium/Heavy Truck (Diesel) – ASE	Students must pass three of the five assessments listed in IRC section.

CLUSTER #14 – SUPPLY CHAIN & TRANSPORTATION MARINE MAINTENANCE – CIP CODE 47.0616		
IRCS FOR CLUSTER #14 MARINE MAINTENANCE	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
Mercury Marine System Technician Certification/M-TEK **NEW**	Student must pass all required courses to earn certification.	MMST

STACKABLE CREDENTIALS FOR CLUSTER #14 MARINE MAINTENANCE	CLARIFICATION & REPORTING CRITERIA	CODE
No stackable credentials approved for this program.		

TSA ASSESSMENTS FOR CLUSTER #14 MARINE MAINTENANCE	CLARIFICATION/COMMENTS
Small Engine Technology – NOCTI	

CLUSTER #14 – SUPPLY CHAIN & TRANSPORTATION SMALL ENGINE REPAIR – CIP CODE 47.0606		
IRCS FOR CLUSTER #14 SMALL ENGINE REPAIR	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
Master Service Technician – Briggs & Stratton		MST

STACKABLE CREDENTIALS FOR CLUSTER #14 SMALL ENGINE REPAIR	CLARIFICATION & REPORTING CRITERIA	CODE
No stackable credentials approved for this program.		

TSA ASSESSMENTS FOR CLUSTER #14 SMALL ENGINE REPAIR	CLARIFICATION/COMMENTS
Small Engine Technology – NOCTI	

CLUSTER #14 – SUPPLY CHAIN & TRANSPORTATION TRUCK AND BUS DRIVER/COMMERICAL VEHICLE OPERATOR AND INSTRUCTOR – CIP CODE 49.0205		
IRCS FOR CLUSTER #14 TRUCK AND BUS DRIVER/COMMERICAL VEHICLE OPERATOR AND INSTRUCTOR	**CLARIFICATION & REPORTING CRITERIA**	**CODE**
MO Commercial Driver's License (CDL)		MOCDL

STACKABLE CREDENTIALS FOR CLUSTER #14 TRUCK AND BUS DRIVER/COMMERICAL VEHICLE OPERATOR AND INSTRUCTOR	CLARIFICATION & REPORTING CRITERIA	CODE
No stackable credentials approved for this program.		

TSA ASSESSMENTS FOR CLUSTER #14 TRUCK AND BUS DRIVER/COMMERICAL VEHICLE OPERATOR AND INSTRUCTOR	CLARIFICATION/COMMENTS
Auto Technology – Today's Class	