

Perkins 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. TSAs are required by Perkins IV for both secondary and post-secondary programs. 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. In some instances an IRC is also identified, and could be reported as, a TSA.

Concentrator: A student who has earned three or more sequential credits in any state-approved CTE program grades 9-12. Sequential credits can consist of courses that crossover into different program areas. (Note: It is a local decision to determine the sequence; therefore, it is a local decision to determine when a student becomes a concentrator and completes a program).

Industry Recognized Credential (IRC): 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.

Technical Skill Attainment (TSA): A technical skill assessment measures skill proficiency of Career and Technical Education (CTE) students who are concentrators (a student who has earned three or more sequential credits in any state-approved CTE program grades 9-12) and has completed an approved CTE program. A TSA is not intended to be taken after every course.

- Please refer to the MSIP-5 current [Comprehensive Guide to the Missouri School Improvement Program \(2017\)](#) for clarification on Performance Standard 3, Indicator 4 (College and Career Readiness).
- [MOSIS Code Sets](#)

Beginning in FY2015 (the 2014-2015 school year), several assessments that had temporarily been on the MSIP IRC approved list were removed. Those assessments will remain on the approved Perkins TSA list.

IRCs are identified a year prior to the reporting year in order to give schools ample time to prepare for the assessments. Please note clarification statements as some IRCs require both a knowledge and performance assessment. TSAs and IRCs 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.

School districts will have an opportunity to request that additional IRCs be added, removed, or clarification statements be revised on the MSIP-5 list during the spring IRC Application window.

Note: This guidance document will be updated periodically with web links or other information as needed.
















Agriculture, Food and Natural Resources

Assessment	Perkins TSA	Clarification/ Reporting Criteria TSA	MSIP IRC	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	✓				
<i>Veterinary Assistant – Animal Care Technologies</i>	✓		✓		AGVET

Architecture and Construction

Assessment	Perkins TSA	Clarification/ Reporting Criteria TSA	MSIP5 IRC	Clarification/Reporting Criteria IRC (Effective FY2016)	IRC Code
Air Conditioning Certification – HVAC Excellence	✓		✓		HVAC
American Design Drafting Association- (ADDA)	✓		✓		ADDA
Architectural Drafting – SkillsUSA	✓				
Autodesk Professional Certification (Certified Professional) assessments: <ul style="list-style-type: none"> • AutoCAD Certified Professional • 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 	✓		✓	Student must pass one Autodesk Professional Certification--Certified Professional assessment in the appropriate instructional area to have earned the IRC.	ACP
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 St Louis MO 63123	✓	Student must pass Career Connections Level 1 and/or Level 2 Exam.	✓	Student must pass Career Connections Level 2 or above Exam.	PACT
Carpentry—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.	✓		✓	Carpentry Level One	NCCER-CARP
Carpentry Basic --NOCTI	✓				
Carpentry – NOCTI	✓				
Carpentry – SkillsUSA	✓				
Carpentry – PACT	✓		✓		PACT
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					
Housing – AAFCS					AAFCS-HOUS
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					
HVAC/R – SkillsUSA					
Industrial Maintenance Mechanics– NOCTI					
Masonry—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-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	Perkins TSA	Clarification/ Reporting Criteria TSA	MSIP5 IRC	Clarification/Reporting Criteria IRC (Effective FY2016)	IRC Code
3-D Visualization and Animation – SkillsUSA	✓				
Adobe Certified Associate (ACA) • 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					
Housing – AAFCS					AAFCS-HOUS
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	Perkins TSA	Clarification/Reporting Criteria TSA	MSIP5 IRC	Clarification/Reporting Criteria IRC (Effective FY2016)	IRC Code
Certification for Legal Professionals– ALS					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	Perkins TSA	Clarification/Reporting Criteria TSA	MSIP5 IRC	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 and Training – NOCTI					
Youth Development Credential					YDEVA
Education Fundamentals – AAFCS				This is the required IRC for the Career Pathways to the Teaching Profession program.	AAFCS-EF

Finance

Assessment	Perkins TSA	Clarification/Reporting Criteria TSA	MSIP5 IRC	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	Perkins TSA	Clarification/ Reporting Criteria TSA	MSIP5 IRC	Clarification/Reporting Criteria IRC (Effective FY2016)	IRC Code
1st Responder – National Registry of Emergency Medical Technicians (NREMT)	✓	Appropriate for Perkins only			
Associate Degree Nursing (ADN) –NCLEX-RN-- MO Division of Professional Registration	✓	Appropriate for Perkins reporting			
Certified Dental Assistant, Infection Control Exam (ICE) – Dental Assisting National Board, Inc.	✓		✓		CDAICE
Certified Dental Assistant, Radiation Health & Safety Exam (RHS) – Dental Assisting National Board, Inc.	✓		✓		CDARHS
Certified Nurse Aide (CNA) – Missouri Department of Health and Senior Services	✓		✓		CNA
Dental Assistant - MO - EFDA	✓				
Dental Assisting – NOCTI	✓				
Dental Assisting – SkillsUSA	✓				










Dental Hygienists – MO Division of Professional Registration					
Dental Lab Technology – NOCTI					
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					
Medical Assisting – SkillsUSA					
Missouri Assessment of Basic Dental Assisting Skills				This assessment will be available for MSIP reporting beginning in June, 2019.	
National Health Care Foundation Skill Standard Assessment – National Consortium on Health Science and Technology Ed.					
Nursing Assisting – NOCTI					
Nurse Assisting – SkillsUSA					

Nutrition – AAFCS	✓		✓		AAFCN-N
Practical Nursing NCLEX-PN -- MO Division of Professional Registration	✓				
Practical Nursing – NOCTI	✓				
Practical Nursing – SkillsUSA	✓				
Pharmacy technicians – Institute for the Certification of Pharmacy Technicians	✓				
Pharmacy technicians Pharmacy Technician Certification Board	✓				
Project Lead The Way	✓	Student must pass two of three PLTW biomedical or two of three engineering or two of three computer science EOCs with a stanine score of four or above on each assessment.			
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	Perkins	Clarification/	MSIP5	Clarification/Reporting	IRC Code
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	TSA	Reporting Criteria TSA	IRC	Criteria IRC (Effective FY2016)	
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 Junior Culinarian (CJC) certification a student must complete the requirements for an accredited American Culinary Federation program, pass the NOCTI written and practical exam with a score of 70% or higher. A student does not need to be a concentrator when used as an IRC.	ACF
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 Baking – SkillsUSA					
Commercial Foods – NOCTI					
Culinary Arts – AAFCS					AAFCS-CA
Culinary Arts – SkillsUSA					

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 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.		To earn the ProStart National Certification of Achievement (COA), a student must pass the National Restaurant Association's ProStart Year 1 and ProStart Year 2 final exams, and complete 400 hours of mentored work experience.	PROSTART
Restaurant, Food and Beverage Services – NOCTI					
Retail Commercial Baking – NOCTI					
Travel and Tourism – NOCTI					

Human Services

Assessment	Perkins TSA	Clarification/Reporting Criteria TSA	MSIP5 IRC	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 – SkillsUSA	✓				
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	✓				

Nail Care – SkillsUSA					
Nutrition – AAFCS					AAFCS-N

Information Technology

Assessment	Perkins TSA	Clarification/Reporting Criteria TSA	MSIP5 IRC	Clarification/Reporting Criteria IRC (Effective FY2016)	IRC Code
Adobe Certified Associate (ACA)	✓		✓		Adobe CAC
C + + Certified Associate Programmer	✓		✓		CAP
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 Entry level Network Technician (CCENT)	✓		✓		CCENT
Cisco Certified Network Association (CCNA) Final Exam – Cisco Networking Academy	✓				
Cisco Certified Networking Associate Security (CCNA Security)	✓		✓		CCNA-S
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	✓				
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 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.	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 assessment to have earned an IRC. The school and teacher must have signed proctoring	TONETWPRO




				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	Perkins TSA	Clarification/ Reporting Criteria TSA	MSIP5 IRC	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	✓		✓	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	✓				

Law Enforcement/Criminal Justice-- 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	Perkins TSA	Clarification/Reporting Criteria TSA	MSIP5 IRC	Clarification/Reporting Criteria IRC (Effective FY2016)	IRC Code
Automated Manufacturing Technology – SkillsUSA					
Cabinetmaking – SkillsUSA					
Certified Computer Service Technician – ETA					ETA
Certified Production Technician (CPT)					CPT
Cisco Certified Network Association (CCNA) Final Exam – Cisco Networking Academy					

Cisco CCNA Discovery Final Exam – Cisco Networking Academy					
Cisco CCNP Final Exam – Cisco Networking Academy					
Cisco I.T. Essentials Final Exam – Cisco Networking Academy					
Cisco CCNA Exploration Final Exam – Cisco Networking Academy					
Cisco Student Certification				This assessment will be available for MSIP reporting beginning in June, 2019. Student must pass both Introduction to Networking and Routing and Switching Essentials at a 75% level on both the performance and written components of the test.	
CNC Milling and Turning Technology – SkillsUSA					
Computer Repair and Computer Networking – Cisco Networking Academy					
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
Major Appliance Technology – SkillsUSA	✓				
Manufacturing Technician Level 1 (MT1) Certification from the Manufacturing Skills Institute	✓		✓		MT1
Manufacturing Technology – NOCTI	✓				
Mechatronics – SkillsUSA	✓				
Precision Machining – NOCTI	✓				
Robotics Technology – CERT	✓				
Robotics and Automation Technology – SkillsUSA	✓				
Telecommunications Cabling – SkillsUSA	✓				
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
Welding—NCCER	✓	The TSA does not require one weld evaluated and approved by an AWS-certified teacher	✓	Passing the NCCER Welding Exam PLUS passing at least one weld evaluated and	AWS

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.		or inspector who is not the student's current teacher.		approved by an AWS-certified teacher or inspector who is not the student's current teacher.	
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 evaluated and approved by an AWS-certified teacher or inspector who is not the student's current teacher.	✓	Passing the SkillsUSA 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 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	Perkins TSA	Clarification/ Reporting Criteria TSA	MSIP5 IRC	Clarification/Reporting Criteria IRC (Effective	IRC Code
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				FY2016)	
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	Perkins TSA	Clarification/ Reporting Criteria TSA	MSIP5	Clarification/Reporting Criteria IRC (Effective FY2016)	IRC Code
Marine Service Technology – SkillsUSA					
Pre- Engineering/Engineering Technology – NOCTI					
Project Lead The Way		Student must pass two of three PLTW engineering or two of three biomedical or two of three computer science EOCs with a stanine score of four or above on each assessment.			
Volvo Penta					
Mercury Marine					

Transportation, Distribution and Logistics

Assessment	Perkins TSA	Clarification/ Reporting Criteria TSA	MSIP5 IRC	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
Automotive Youth Education Systems Exit Examination – AYES	✓				
Aviation Maintenance Technology (Secondary) – SkillsUSA	✓				
Aviation Maintenance Technology (Post secondary) – SkillsUSA	✓				

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	✓				
Heavy Equipment Maintenance and Repair – NOCTI	✓				
Motorcycle Service Technology – SkillsUSA	✓				
Power Equipment Technology – SkillsUSA	✓				
Small Engine Technology – NOCTI	✓				

IRC SUMMARY

The following chart indicates the dates each IRC has been active for MSIP purposes.

Assessment	IRC Code	MSIP IRC July 2012 through June 2014	MSIP IRC July 2014 through June 2015	MSIP IRC July 2014 through June 2017	MSIP IRC July 2015 through June 2018	MSIP IRC July 2016 through June 2019	MSIP IRC July 2017 Through June 2019	MSIP IRC July 2018 Through June 2020
MO Agriculture Skill & Knowledge Assessment	AGSK	✓	✓	✓	✓	✓	✓	✓
Adobe Certified Specialist <ul style="list-style-type: none"> • Adobe Photoshop • Adobe Flash Professional • Adobe Illustrator • Adobe Dreamweaver • Adobe Premier • Adobe InDesign 	ADOBE-CAC	✓	✓	✓	✓	✓	✓	✓
Air Conditioning Certification – HVAC Excellence	HVAC	✓	✓	✓	✓	✓	✓	✓
American Culinary Federation - ACF	ACF	✓	✓	✓	✓	✓	✓	✓
American Design Drafting Association- (ADDA)	ADDA	✓	✓	✓	✓	✓	✓	✓
American Hotel and Lodging Association (AH&LA)	AHLA	✓	✓	✓	✓	✓	✓	✓
American Welding Society– AWS	AWS	✓	✓	✓	✓	✓	✓	✓
ASK (Marketing)	ASK-MKTG	✓	✓	✓	✓	✓	✓	✓
ASK (Finance)	ASK-FIN	✓	✓	✓	✓	✓	✓	✓

Autodesk Professional Certification (Certified Professional assessments): <ul style="list-style-type: none"> • AutoCAD Certified Professional • 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 	ACP				✓	✓	✓	✓
Automotive Technician CorePDF Document – NOCTI		✓						
Automotive Technician Examination – ASE	ASE	✓	✓	✓	✓	✓	✓	✓
C + + Certified Associate Programmer	CAP						✓	✓
Carpentry -- NCCER	NCCER-CARP	✓	✓	✓	✓	✓	✓	✓
Carpentry – PACT	PACT	✓	✓	✓	✓	✓	✓	✓
Carpentry PDF Document – NOCTI		✓						
Certification for Legal Professionals – ALS	ALS	✓	✓	✓	✓	✓	✓	✓
Certified Computer Service Technician – ETA	ETA	✓	✓	✓	✓	✓	✓	✓
Certified Dental Assistant, Infection Control Exam (ICE) – Dental Assisting National Board, Inc.	CDAICE	✓	✓	✓	✓	✓	✓	✓
Certified Dental Assistant, Radiation Health & Safety Exam (RHS) – Dental Assisting National Board, Inc.	CDARHS	✓	✓	✓	✓	✓	✓	✓
Certified Internet Web Professional – CIW	CIW	✓	✓	✓	✓	✓	✓	✓
Certified Nurse Aide (CNA) – Missouri Department of Health and Senior Services	CNA	✓	✓	✓	✓	✓	✓	✓
Certified Production Technician (CPT)	CPT	✓	✓	✓	✓	✓	✓	✓
Child Development Associate (CDA)	CDEVA	✓	✓	✓	✓	✓	✓	✓
Cisco Certified Networking Associate Security (CCNA Security)	CCNA-S	✓	✓	✓	✓	✓	✓	✓
Cisco CCNA Discovery Final Exam – Cisco Networking Academy		✓						
Cisco CCNA Exploration Final Exam – Cisco Networking Academy		✓						
Cisco CCNP Final Exam – Cisco Networking Academy		✓						

Cisco Certified Entry level Network Technician (CCENT)	CCENT	✓	✓	✓	✓	✓	✓	✓
Cisco Certified Network Association (CCNA) Final Exam – Cisco Networking Academy		✓						
Cisco I.T. Essentials Final Exam – Cisco Networking Academy		✓						
Cisco Student Certification								
Collision Repair – ICAR	ICAR	✓	✓	✓	✓	✓	✓	✓
Collision Repair PDF Document – NOCTI		✓						
CompTIA A+ Certification	COMPTIA	✓	✓	✓	✓	✓	✓	✓
CompTIA Network+	COMPNTIA	✓	✓	✓	✓	✓	✓	✓
CompTIA Security	COMPSECTIA	✓	✓	✓	✓	✓	✓	✓
CompTIA IT Fundamentals (Replaced the retired CompTIA Strata IT Fundamentals exam 8.30.2015)	COMPSTRTIA	✓	✓	✓	✓	✓	✓	✓
Construction NCCER	NCCER-CNST	✓	✓	✓	✓	✓	✓	✓
Cosmetology – MO Division of Professional Registration	CSCBE	✓	✓	✓	✓	✓	✓	✓
Cosmetology PDF Document – NOCTI		✓						
Criminal Justice PDF Document – NOCTI		✓						
Culinary Arts – AAFCS	AAFCS-CA	✓	✓	✓	✓	✓	✓	✓
Culinary Arts I: Prep Cook PDF Document – NOCTI		✓						
Culinary Arts II: Cook PDF Document – NOCTI		✓						
Diesel Engine Technology PDF Document – NOCTI		✓						
Early Childhood Care and Education PDF Document – NOCTI		✓						
Early Childhood Education – AAFCS	AAFCS-ECE	✓	✓	✓	✓	✓	✓	✓
Education Fundamentals – AAFCS	AAFCS-EF	✓	✓	✓	✓	✓	✓	✓
Electronics Technicians Association (ETA)	ETA	✓	✓	✓	✓	✓	✓	✓
EMT-Basic – NREMT	NREMT	✓	✓	✓	✓	✓	✓	✓
Family and Community Services – AAFCS	AAFCS-FAM	✓	✓	✓	✓	✓	✓	✓
Fashion, Textiles and Apparel – AAFCS	AAFCS-FASH	✓	✓	✓	✓	✓	✓	✓
Final Cut Certified Pro	FCCP				✓	✓	✓	✓
Firefighter I – MO Division of Fire Safety		✓	✓					

Firefighter I & II – MO Division of Fire Safety	FIREII			✓	✓	✓	✓	✓
Food Science – AAFCS	AAFCS-FS	✓	✓	✓	✓	✓	✓	✓
Fundamental Business Concepts – ASK Institute	ASK	✓	✓	✓	✓	✓	✓	✓
Graphic Communications – SkillsUSA/PrintED SkillsUSA Graphic Design (name change 2016)	GCOM-SUSA	✓	✓	✓	✓	✓	✓	✓
Housing – AAFCS	AAFCS-HOUS	✓	✓	✓	✓	✓	✓	✓
HVAC--NCCER	NCCER-HVAC	✓	✓	✓	✓	✓	✓	✓
HVAC/RPDF Document – NOCTI		✓						
HVACPDF Document – NOCTI		✓						
Interior Design Fundamentals – AAFCS	AAFCS-ID	✓	✓	✓	✓	✓	✓	✓
International Society of Certified Electronics Technicians (ISCET) Online Certification	ISCET	✓	✓	✓	✓	✓	✓	✓
Law Enforcement/Criminal Justice –MOLESK	MOLESK						✓	✓
Machine Tool Technology – NIMS	NIMS	✓	✓	✓	✓	✓	✓	✓
Manufacturing Technician Level 1 (MT1) Certification from the Manufacturing Skills Institute	MT1						✓	✓
Masonry-NCCER	NCCER-	✓	✓	✓	✓	✓	✓	✓
Medium/Heavy Truck (Diesel) - ASE	ASE	✓	✓	✓	✓	✓	✓	✓
Mercury Marine		✓						
Microsoft MTA	MTA	✓	✓	✓	✓	✓	✓	✓
Microsoft Office Specialist	MOS				✓	✓	✓	✓
Missouri Assessment of Basic Dental Assisting Skills								
Nail Care – SkillsUSA								
Nail Care – State Cosmetology Board	NTSCBE	✓	✓	✓	✓	✓	✓	✓
National Automotive Technicians Education Foundation – NATEF	NATEF	✓	✓	✓	✓	✓	✓	✓
National Health Care Foundation Skill Standard Assessment – National Consortium on Health Science and Technology Ed.		✓						
TestOut Network Pro	TONETWPRO						✓	✓
Nutrition – AAFCS	AAFCS-N	✓	✓	✓	✓	✓	✓	✓
Oracle Database SQL Fundamentals I	ODSFI				✓	✓	✓	✓
Precision Machining PDF Document – NOCTI		✓						

PrintED/SkillsUSA Advertising Design	GCOM-SUSA							✓	✓
ProStart Program – National Restaurant Association Education Foundation	PROSTART	✓	✓	✓	✓	✓	✓	✓	✓
TestOut SecurityPro	TOSECPRO							✓	✓
Technical Drafting PDF Document– NOCTI		✓							
TestOut PC Pro	TOPCPRO							✓	✓
Veterinary Assistant – Animal Care Technologies	AGVET	✓	✓	✓	✓	✓	✓	✓	✓
Volvo Penta		✓							
Welding PDF Document– NOCTI		✓							
Youth Development Credential	YDEVA	✓	✓	✓	✓	✓	✓	✓	✓

MOSIS/IRC Code Sets

Name	Code	Definition	Effective Date
MO Agriculture Skill & Knowledge Assessment	AGSK	MO Agriculture Skill & Knowledge Assessment	7/1/2012
Veterinary Assistant Animal Care Technologies-MVMA	AGVET	Veterinary Assistant Animal Care Technologies-MVMA	7/1/2012
HVAC Excellence	HVAC	HVAC Excellence	7/1/2012
Carpentry-PACT	PACT	Carpentry-PACT	7/1/2012
American Design Drafting Association (ADDA)	ADDA	American Design Drafting Association (ADDA)	7/1/2012
Graphic Communication-SkillsUSA/PrintED	GCOM-SUSA	Graphic Communication-SkillsUSA	7/1/2012
Adobe Certified Specialist Certification	ADOBE-CAC	Adobe Certified Associate Certification	7/1/2012
Fashion Textiles & Apparel-AAFCS	AAFCS-FASH	Fashion Textiles & Apparel-AAFCS	7/1/2012
Housing-AAFCS	AAFCS-HOUS	Housing-AAFCS	7/1/2012
Certification for Legal Professionals-ALS	ALS	Certification for Legal Professionals-ALS	7/1/2012
A*S*K* Certification-A*S*K Business Institute	ASK	A*S*K* Certification-A*S*K Business Institute	7/1/2012
Certified Nurse Aide (CNA)	CNA	Certified Nurse Aide (CNA)	7/1/2012

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Nutrition - AAFCS	AAFCS-N	Nutrition - AAFCS	7/1/2012
National Registry of Emergency Medical Technician	NREMT	National Registry of Emergency Medical Technician	7/1/2012
Certified Dental Assistant, Radiation Health & Safety Exam- Dental Assisting National Board, Inc.	CDARHS	Certified Dental Assistant, Radiation Health & Safety Exam- Dental Assisting National Board, Inc.	7/1/2012
Certified Dental Assistant, Infection Control Exam- Dental Assisting National Board, Inc.	CDAICE	Certified Dental Assistant, Infection Control Exam- Dental Assisting National Board, Inc.	7/1/2012
Child Development Associate	CDEVA	Child Development Associate	7/1/2012
Early Childhood Education-AAFCS	AAFCS-ECE	Early Childhood Education-AAFCS	7/1/2012
Education Fundamental-AAFCS	AAFCS-EF	Education Fundamental-AAFCS	7/1/2012
Family and Community Services -AAFCS	AAFCS-FAM	Family and Community Services -AAFCS	7/1/2012
Food Science-AAFCS	AAFCS-FS	Food Science-AAFCS	7/1/2012
Interior Design Fundamentals-AAFCS	AAFCS-ID	Interior Design Fundamentals-AAFCS	7/1/2012
Youth Development Credential	YDEVA	Youth Development Credential	7/1/2012
Cosmetology-State Cosmetology Board Exam	CSCBE	Cosmetology-State Cosmetology Board Exam	7/1/2012
Nail Technician-State Cosmetology Board Exam	NTSCBE	Nail Technician-State Cosmetology Board Exam	7/1/2012
Culinary Arts-AAFCS	AAFCS-CA	Culinary Arts-AAFCS	7/1/2012
American Culinary Federation-ACF	ACF	American Culinary Federation Retail Baking -ACF	7/1/2012
National Restaurant Association Education Foundation - ProStart	PROSTART	National Restaurant Association Education Foundation - ProStart	7/1/2012
American Hotel and Lodging Association (AH&LA)	AHLA	American Hotel and Lodging Association (AH&LA)	7/1/2012
CompTIA A+ Certification	COMPTIA	CompTIA A+ Certification	7/1/2012
Comp TIA Network+ Certification	COMPNTIA	Comp TIA Network+ Certification	7/1/2012
CompTIA Security+	COMPSECTIA	CompTIA Security+	7/1/2012
CompTIA Strata	COMPSTRTIA	CompTIA Strata	7/1/2012
Cisco Certified Entry Level Network Technician (CCENT)	CCENT	Cisco Certified Entry Level Network Technician (CCENT)	7/1/2012
Cisco Certified Network Associate Security (CCNA Security)	CCNA-S	Cisco Certified Network Associate Security (CCNA Security)	7/1/2012
Microsoft MTA	MTA	Microsoft MTA	7/1/2012
Certified Internet Web Professional (CIW)	CIW	Certified Internet Web Professional (CIW)	7/1/2012
Fire II - Missouri Division of Fire Safety	FIREII	Fire II - Missouri Division of Fire Safety	7/1/2012
American Welding Society (AWS)	AWS	American Welding Society (AWS)	7/1/2012

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National Institute for Metalworking Skills	NIMS	National Institute for Metalworking Skills	7/1/2012
Electronics Technicians Association (ETA)	ETA	Electronics Technicians Association (ETA)	7/1/2012
International Society of Certified Electronics Technicians (ISCET)	ISCET	International Society of Certified Electronics Technicians (ISCET)	7/1/2012
National Automotive Technicians Ed. (NATEF)	NATEF	National Automotive Technicians Ed. (NATEF)	7/1/2012
Collision Repair - ICAR	ICAR	Collision Repair - ICAR	7/1/2012
Automotive Technician Exam (Student Certification)-ASE	ASE	Automotive Technician Exam (Student Certification)-ASE	7/1/2012
Certified Production Technician (CPT)	CPT	Certified Production Technician (CPT)	7/1/2012
Autodesk Certified Professional	ACP	Autodesk Certified Professional	7/1/2015
Final Cut Certified Pro	FCCP	Final Cut Certified Pro	7/1/2015
Microsoft Office Specialist	MOS	Microsoft Office Specialist	7/1/2015
Oracle Database SQL Fundamentals I	ODSFI	Oracle Database SQL Fundamentals I	7/1/2015
C + + Certified Associate Programmer	CAP	C + + Certified Associate Programmer	7/1/2016
Manufacturing Technician Level 1 (MT1) Certification from the Manufacturing Skills Institute	MT1	Manufacturing Technician Level 1 (MT1) Certification from the Manufacturing Skills Institute	7/1/2016
Masonry-NCCER	NCCER-MAS	NCCER-Masonry	7/1/2016
TestOut PC Pro	TOPCPRO	TestOut PC Pro	7/1/2016
TestOut Network Pro	TONETWPRO	TestOut Network Pro	7/1/2016
TestOut Security Pro	TOSECPRO	TestOut Security Pro	7/1/2016
Missouri Law Enforcement Skills and Knowledge	MOLESK	Missouri Law Enforcement Skills and Knowledge	7/1/2016
ASK Certification - ASK Finance	ASK-FIN	ASK Certification - ASK Finance	7/1/2012
ASK Certification - ASK Marketing	ASK-MKTG	ASK Certification - ASK Marketing	7/1/2012
NCCER-Carpentry	NCCER-CARP	NCCER-Carpentry	7/1/2012
NCCER-Construction	NCCER-CNST	NCCER-Construction	7/1/2012
NCCER-HVAC	NCCER-HVAC	NCCER-HVAC	7/1/2012

