

FY21 HIGH-DEMAND OCCUPATIONS LIST ALIGNED TO INDUSTRY RECOGNIZED CREDENTIAL (IRC)

HIGH-DEMAND OCCUPATION	IRC – VENDOR
Agricultural and Food Science Technicians	<ul style="list-style-type: none"> • MO Agriculture Skill & Knowledge
Automotive Body and Related Repairers	<ul style="list-style-type: none"> • Auto Collision Repair Technology – National Institute for Automotive Service Excellence <ul style="list-style-type: none"> ○ Student must pass either B2 or B3. • Collision Repair – Inter-Industry Conference on Auto Collision Repair <ul style="list-style-type: none"> ○ Student must pass either NST Pro Level 1 or REF Pro Level 1.
Automotive Service Technicians and Mechanics	<ul style="list-style-type: none"> • Automotive Technician Examination – National Institute for Automotive Service Excellence <ul style="list-style-type: none"> ○ 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.
Billing and Posting Clerks	<ul style="list-style-type: none"> • Fundamental Business Concepts – The Institute for the Assessment of Skills and Knowledge of Business
Brickmasons and Blockmasons	<ul style="list-style-type: none"> • Masonry – National Center for Construction Education & Research
Brokerage Clerks	<ul style="list-style-type: none"> • Fundamental Business Concepts – The Institute for the Assessment of Skills and Knowledge of Business
Bus and Truck Mechanics and Diesel Engine Specialists	<ul style="list-style-type: none"> • Medium/Heavy Truck (Diesel) – National Institute for Automotive Service Excellence <ul style="list-style-type: none"> ○ Student must pass all four core assessments: brakes, steering and suspension, engine performance, and electrical.
Cargo and Freight Agents	<i>IRC not identified for high school level</i>
Carpenters	<ul style="list-style-type: none"> • Carpentry—Career Connections • Carpentry – National Center for Construction Education & Research • Construction – National Center for Construction Education & Research • Pre-Apprenticeship Certificate Training
Chemical Technicians	<i>IRC not identified for high school level</i>
Childcare Workers	<ul style="list-style-type: none"> • Early Childhood Education – American Association of Family & Consumer Sciences • Youth Development Credential – The Missouri School Age Community Coalition • Education Fundamentals – American Association of Family & Consumer Sciences • Child Development Associate – Council for Professional Recognition • Early Childhood Education – American Association of Family & Consumer Sciences
Civil Engineering Technicians	<ul style="list-style-type: none"> • Autodesk Certified User <ul style="list-style-type: none"> ○ Student must pass three of the following: AutoCAD, 3dsMax, Maya, Fusion 360, Revit Architecture, or Inventor.
Claims Adjusters, Examiners, and Investigators	<ul style="list-style-type: none"> • Fundamental Business Concepts – The Institute for the Assessment of Skills and Knowledge of Business
Commercial Pilots	<i>IRC not identified for high school level</i>
Community Health Workers	<i>IRC not identified for high school level</i>
Computer Network Support Specialists	<ul style="list-style-type: none"> • Adobe Certified Associate – Certiport <ul style="list-style-type: none"> ○ Student must earn three certifications from the following: Photoshop, Flash Professional, Illustrator, Dreamweaver, Premier, or InDesign. • C++ Certified Associate Programmer – C++ Institute • Certified Internet Web Professional – CIW • Cisco Certified Entry level Network Technician – Cisco Systems • Cisco Certified Networking Associate Security (CCNA Security) – Cisco Systems • Cisco Student Certification – Cisco Systems

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Computer Network Support Specialists <i>(continued)</i>	<ul style="list-style-type: none"> • CompTIA A+ Certification – CompTIA • CompTIA Network+ – CompTIA • CompTIA Security – CompTIA • CompTIA Strata IT Fundamentals – CompTIA • Microsoft MTA – Certiport • Microsoft Office Specialist – Certiport • Oracle Database SQL Fundamentals I • Network Pro – TestOut • Security Pro – TestOut • TestOut PC Pro – TestOut
Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	<ul style="list-style-type: none"> • Certified Production Technician – Manufacturing Skill Standards Council • Machine Tool Technology – The National Institute for Metalworking Skills
Computer Systems Analysts	<ul style="list-style-type: none"> • C++ Certified Associate Programmer – C++ Institute • Cisco Certified Entry level Network Technician – Cisco Systems • Cisco Certified Networking Associate Security (CCNA Security) – Cisco Systems • Certified Computer Service Technician – ETA International • Cisco Student Certification – Cisco Systems • CompTIA A+ Certification – CompTIA • CompTIA Network+ – CompTIA • CompTIA Security – CompTIA • CompTIA Strata IT Fundamentals – CompTIA • Microsoft MTA – Certiport • Microsoft Office Specialist – Certiport • Oracle Database SQL Fundamentals I – Oracle Corporation • Network Pro – TestOut • Security Pro – TestOut • TestOut PC Pro – TestOut
Computer User Support Specialists	<ul style="list-style-type: none"> • C++ Certified Associate Programmer – C++ Institute • Certified Internet Web Professional – CIW • Cisco Certified Entry level Network Technician – Cisco Systems • Cisco Certified Networking Associate Security (CCNA Security) – Cisco Systems • Cisco Student Certification – Cisco Systems • CompTIA A+ Certification – CompTIA • CompTIA Network+ – CompTIA • CompTIA Security – CompTIA • CompTIA Strata IT Fundamentals – CompTIA • Microsoft Technology Associate – Certiport • Microsoft Office Specialist – Certiport • Oracle Database SQL Fundamentals I – Oracle Corporation • Network Pro – TestOut

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Computer User Support Specialists (continued)	<ul style="list-style-type: none"> • Security Pro – TestOut • TestOut PC Pro – TestOut
Construction and Building Inspectors	<ul style="list-style-type: none"> • American Design Drafting Association • Autodesk Certified User <ul style="list-style-type: none"> ○ Student must pass three of the following: AutoCAD, 3dsMax, Maya, Fusion 360, Revit Architecture, or Inventor. • Autodesk Professional Certification <ul style="list-style-type: none"> ○ Student must pass one of the following: AutoCAD Certified Professional, Revit Architecture Certified Professional, Revit Structure Certified Professional, Revit MEP Certified Professional: Electrical, Inventor Certified Professional, 3ds Max Certified Professional, or Maya Certified Professional.
Customer Service Representatives	<ul style="list-style-type: none"> • Fundamental Business Concepts – The Institute for the Assessment of Skills and Knowledge of Business
Dental Assistants	<ul style="list-style-type: none"> • Certified Dental Assistant, Infection Control Exam – Dental Assisting National Board, Inc. • Certified Dental Assistant, Radiation Health & Safety Exam – Dental Assisting National Board, Inc. • Missouri Assessment of Basic Dental Assisting Skills – Missouri Dental Association
Dental Hygienists	<ul style="list-style-type: none"> • Certified Dental Assistant, Infection Control Exam – Dental Assisting National Board, Inc. • Certified Dental Assistant, Radiation Health & Safety Exam – Dental Assisting National Board, Inc. • Missouri Assessment of Basic Dental Assisting Skills – Missouri Dental Association
Diagnostic Medical Sonographers	<i>IRC not identified for high school level</i>
Electricians	<ul style="list-style-type: none"> • Electronics Technicians Association – ETA International • International Society of Certified Electronics Technicians Online Certification
Elevator Installers and Repairers	<i>IRC not identified for high school level</i>
Emergency Medical Technicians and Paramedics	<ul style="list-style-type: none"> • EMT-Basic – National Registry of Emergency Medical Technicians
Firefighters	<ul style="list-style-type: none"> • Firefighter I & II – MO Division of Fire Safety <ul style="list-style-type: none"> ○ Student must pass both assessments.
First-Line Supervisors of Construction Trades and Extraction Workers	<ul style="list-style-type: none"> • Carpentry -- Career Connections • Carpentry – Pre-Apprenticeship Certificate Training • Carpentry – National Center for Construction Education & Research • Construction – National Center for Construction Education & Research
First-Line Supervisors of Fire Fighting and Prevention Workers	<ul style="list-style-type: none"> • Firefighter I & II – MO Division of Fire Safety <ul style="list-style-type: none"> ○ Student must pass both assessments.
First-Line Supervisors of Food Preparation and Serving Workers	<ul style="list-style-type: none"> • Certified Fundamentals Cook • Culinary Arts – American Association of Family & Consumer Sciences • ProStart I & II – National Restaurant Association Education Foundation • Food Science – American Association of Family & Consumer Sciences • Nutrition – American Association of Family & Consumer Sciences
First-Line Supervisors of Housekeeping and Janitorial Workers	<ul style="list-style-type: none"> • Hospitality and Tourism Management I & II – American Hotel and Lodging Educational Institute
First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	<ul style="list-style-type: none"> • MO Agriculture Skill & Knowledge

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First-Line Supervisors of Mechanics, Installers, and Repairers	<ul style="list-style-type: none"> • FAA Aviation Maintenance Technician-General
First-Line Supervisors of Non-Retail Sales Workers	<ul style="list-style-type: none"> • Fundamental Business Concepts – The Institute for the Assessment of Skills and Knowledge of Business
First-Line Supervisors of Office and Administrative Support Workers	<ul style="list-style-type: none"> • Fundamental Business Concepts – The Institute for the Assessment of Skills and Knowledge of Business
First-Line Supervisors of Personal Service Workers	<ul style="list-style-type: none"> • Family and Community Services – American Association of Family & Consumer Sciences
First-Line Supervisors of Police and Detectives	<ul style="list-style-type: none"> • Law Enforcement/Criminal Justice – Missouri Law Enforcement Skills and Knowledge
First-Line Supervisors of Production and Operating Workers	<ul style="list-style-type: none"> • FAA Aviation Maintenance Technician-General • Machine Tool Technology – The National Institute for Metalworking Skills • Manufacturing Technician Level 1 Certification – Manufacturing Skills Institute • Advanced Manufacturing Technology – Ramsay Corporation
First-Line Supervisors of Retail Sales Workers	<ul style="list-style-type: none"> • Fundamental Marketing Concepts – The Institute for the Assessment of Skills and Knowledge of Business • Fundamental Business Concepts – The Institute for the Assessment of Skills and Knowledge of Business • Fashion, Textiles, and Apparel – American Association of Family & Consumer Sciences • Interior Design Fundamentals – American Association of Family & Consumer Sciences
Food Service Managers	<ul style="list-style-type: none"> • Certified Fundamentals Cook • Culinary Arts – American Association of Family & Consumer Sciences • ProStart I & II – National Restaurant Association Education Foundation • Food Science – American Association of Family & Consumer Sciences • Nutrition – American Association of Family & Consumer Sciences
Glaziers	<i>IRC not identified for high school level</i>
Health Technologists and Technicians, All Other	<i>IRC not identified for high school level</i>
Healthcare Practitioners and Technical Workers, All Other	<ul style="list-style-type: none"> • Certified Phlebotomy Technician and Certified Clinical Medical Assistant Certification – American Medical Certification Association • Certified Clinical Medical Assistant – National Healthcareer Association • Certified Nurse Aide – Missouri Department of Health and Senior Services
Healthcare Support Workers, All Other	<ul style="list-style-type: none"> • Certified Phlebotomy Technician and Certified Clinical Medical Assistant Certification – American Medical Certification Association • Certified Clinical Medical Assistant – National Healthcareer Association • Certified Nurse Aide – Missouri Department of Health and Senior Services
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	<ul style="list-style-type: none"> • HVAC Excellence • NC3 Trane Residential and NC3 Trane Commercial HVAC/Building Automation Systems <ul style="list-style-type: none"> ○ Student must pass both residential and commercial assessments.
Heavy and Tractor-Trailer Truck Drivers	<ul style="list-style-type: none"> • Medium/Heavy Truck (Diesel) – National Institute for Automotive Service Excellence <ul style="list-style-type: none"> ○ Student must pass all four core assessments: brakes, steering and suspension, engine performance, and electrical.
Helpers – Pipelayers, Plumbers, Pipefitters, and Steamfitters	<ul style="list-style-type: none"> • Construction – National Center for Construction Education & Research

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Helpers – Production Workers	<ul style="list-style-type: none"> Machine Tool Technology – The National Institute for Metalworking Skills Manufacturing Technician Level 1 Certification – Manufacturing Skills Institute Advanced Manufacturing Technology – Ramsay Corporation
Home Health Aides	<ul style="list-style-type: none"> Certified Nurse Aide – Missouri Department of Health and Senior Services
Industrial Machinery Mechanics	<ul style="list-style-type: none"> FAA Aviation Maintenance Technician-General Machine Tool Technology – The National Institute for Metalworking Skills
Insurance Claims and Policy Processing Clerks	<ul style="list-style-type: none"> Fundamental Business Concepts – The Institute for the Assessment of Skills and Knowledge of Business
Insurance Sales Agents	<ul style="list-style-type: none"> Fundamental Business Concepts – The Institute for the Assessment of Skills and Knowledge of Business
Interviewers, Except Eligibility and Loan	<ul style="list-style-type: none"> Fundamental Business Concepts – The Institute for the Assessment of Skills and Knowledge of Business
Licensed Practical and Licensed Vocational Nurses	<i>IRC not identified for high school level</i>
Life, Physical, and Social Science Technicians, All Other	<ul style="list-style-type: none"> Family and Community Services – American Association of Family & Consumer Sciences
Light Truck or Delivery Services Drivers	<i>IRC not identified for high school level</i>
Maintenance and Repair Workers, General	MOASK (Ag Mechanics)
Massage Therapists	<i>IRC not identified for high school level</i>
Medical Assistants	<ul style="list-style-type: none"> Certified Phlebotomy Technician and Certified Clinical Medical Assistant Certification – American Medical Certification Association Certified Clinical Medical Assistant – National Healthcareer Association
Medical Secretaries	<i>IRC not identified for high school level</i>
Millwrights	<i>IRC not identified for high school level</i>
Nonfarm Animal Caretakers	<ul style="list-style-type: none"> MO Agriculture Skill & Knowledge Veterinary Assistant – Animal Care Technologies
Nuclear Medicine Technologists	<i>IRC not identified for high school level</i>
Nursing Assistants	<ul style="list-style-type: none"> Certified Nurse Aide – Missouri Department of Health and Senior Services
Occupational Therapy Assistants	<i>IRC not identified for high school level</i>
Operating Engineers and Other Construction Equipment Operators	<i>IRC not identified for high school level</i>
Opticians, Dispensing	<i>IRC not identified for high school level</i>
Paralegals and Legal Assistants	<ul style="list-style-type: none"> Certification for Legal Professionals – The Association for Legal Professionals
Personal Care Aides	<ul style="list-style-type: none"> Certified Nurse Aide – Missouri Department of Health and Senior Services
Pharmacy Technicians	<i>IRC not identified for high school level</i>
Physical Therapist Assistants	<i>IRC not identified for high school level</i>
Plumbers, Pipefitters, and Steamfitters	<ul style="list-style-type: none"> Construction – National Center for Construction Education & Research
Police and Sheriff's Patrol Officers	<ul style="list-style-type: none"> Law Enforcement/Criminal Justice – Missouri Law Enforcement Skills and Knowledge
Production, Planning, and Expediting Clerks	<i>IRC not identified for high school level</i>
Property, Real Estate, and Community Association Managers	<ul style="list-style-type: none"> Fundamental Business Concepts – The Institute for the Assessment of Skills and Knowledge of Business
Radiologic Technologists	<i>IRC not identified for high school level</i>
Real Estate Brokers	<ul style="list-style-type: none"> Fundamental Business Concepts – The Institute for the Assessment of Skills and Knowledge of Business

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Real Estate Sales Agents	<ul style="list-style-type: none"> • Fundamental Business Concepts – The Institute for the Assessment of Skills and Knowledge of Business
Respiratory Therapists	<i>IRC not identified for high school level</i>
Sales Representatives, Services, All Other	<ul style="list-style-type: none"> • Fundamental Business Concepts – The Institute for the Assessment of Skills and Knowledge of Business • Fundamental Marketing Concepts – The Institute for the Assessment of Skills and Knowledge of Business • Certified Internet Web Professional – CIW
Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	<ul style="list-style-type: none"> • Fundamental Business Concepts – The Institute for the Assessment of Skills and Knowledge of Business • Certified Internet Web Professional – CIW
Security and Fire Alarm Systems Installers	<i>IRC not identified for high school level</i>
Security Guards	<ul style="list-style-type: none"> • Law Enforcement/Criminal Justice – Missouri Law Enforcement Skills and Knowledge
Self-Enrichment Education Teachers	<ul style="list-style-type: none"> • Family and Community Services – American Association of Family & Consumer Sciences
Sheet Metal Workers	<i>IRC not identified for high school level</i>
Social and Human Service Assistants	<ul style="list-style-type: none"> • Family and Community Services – American Association of Family & Consumer Sciences
Stock Clerks and Order Fillers	<ul style="list-style-type: none"> • Fundamental Business Concepts – The Institute for the Assessment of Skills and Knowledge of Business • Fundamental Marketing Concepts – The Institute for the Assessment of Skills and Knowledge of Business
Structural Iron and Steel Workers	<ul style="list-style-type: none"> • Construction – National Center for Construction Education & Research
Transportation, Storage, and Distribution Managers	<ul style="list-style-type: none"> • Fundamental Business Concepts – The Institute for the Assessment of Skills and Knowledge of Business • Fundamental Marketing Concepts – The Institute for the Assessment of Skills and Knowledge of Business
Veterinary Assistants and Laboratory Animal Caretakers	<ul style="list-style-type: none"> • MO Agriculture Skill & Knowledge • Veterinary Assistant – Animal Care Technologies
Veterinary Technologists and Technicians	<ul style="list-style-type: none"> • MO Agriculture Skill & Knowledge • Veterinary Assistant – Animal Care Technologies
Web Developers	<ul style="list-style-type: none"> • Adobe Certified Associate – Certiport <ul style="list-style-type: none"> ○ Student must earn three certifications from the following: Adobe Photoshop, Flash Professional, Illustrator, Dreamweaver, Premier, or InDesign.
Welders, Cutters, Solderers, and Brazers	<ul style="list-style-type: none"> • American Welding Society <ul style="list-style-type: none"> ○ Student must pass NOCTI, National Center for Construction Education & Research, Precision Exams, SkillsUSA or SENSE written test plus pass at least one weld evaluated by an AWS-certified instructor or inspector.

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IRC Notes:

1. DESE maintains an IRC list applicable for secondary students only. The agency does not identify postsecondary credentials, although many of the IRCs identified are also considered credentials of value earned by workers after they graduate from high school.
2. Included in this list are IRCs approved by DESE's IRC Review Committee on September 10, 2019. The CTE Advisory Council will be asked to approve these assessments, as required by statute 170.028.2 RSMo, at their October meeting:
 - Ramsay Corporation: Advanced Manufacturing Technology
 - FAA Aviation Maintenance Technician-General
 - Certified Clinical Medical Assistant through the National Healthcareer Association
 - American Medical Certification Association Certified Phlebotomy Technician and Certified Clinical Medical Assistant Certification
 - Certified Junior Culinarian (CJC), previously approved as an IRC, has been renamed Certified Fundamentals Cook (CFC) by the vendor
3. The IRC Review Committee has recommended that, per MSIP 6, stackable credentials be identified and that students earning two stackable credentials will be considered to have earned an IRC at the secondary level. Educators and business and industry stakeholders will be consulted to identify the stackable credentials. This suggestion will also be presented to the CTE Advisory Council during their October meeting.