

TO: Indiana State Board of Education

FROM: Alicia Kielmovitch, Senior Director of Policy and Legislation

RE: State- and Industry-Recognized Credential and Certifications for 2019-20

DATE: May 1, 2019

Recommendation: Approve the 2019-20 list of industry-recognized credentials and certifications for current students opting into Graduation Pathways for graduation.¹ The 2019-20 list of industry-recognized credentials and certifications will serve as the official list for:

- A-F school accountability, and
- Federal Perkins performance indicators to the US Department of Education.

Background: 511 IAC 6.2-10-1(26) defines "industry-recognized credential" as a certification or credential:

- A. Developed or supported by business and industry to verify student mastery of technical skills competencies in an occupational area that aligns with Indiana's economic sectors; and
- B. Approved by the Department of Workforce Development (DWD).

When DWD first created this list in 2015, it identified certifications that were loosely tied to wage and demand data. As the data have become more comprehensive, DWD has been more diligent in how it curates this list. The Graduation Pathways Policy, adopted by the Indiana State Board of Education (SBOE) in December 2017, permits students to use 'State- and Industry-recognized Credential or Certification,' to satisfy the Postsecondary-Ready Competency requirement. This forcing event encouraged DWD to identify certifications with a greater focus on postsecondary transference and usefulness for students. Graduation Pathways forced DWD to strategically collaborate across multiple state agencies and purposefully engage with employers to update the listed certifications. The Governor's Workforce Cabinet (GWC) and DWD, in collaboration with the staff from Department of Education (DOE), Department of Agriculture (DOA), Commission for Higher Education (CHE), and SBOE reviewed the current list of certifications used for Graduation Pathways and the college- and career-readiness criteria for school accountability.

Process for Updating the List: Working with the Indiana Chamber of Commerce, this interagency group convened over 100 employers from each of the industry sectors to provide input as to which certifications were recognized and valued by employers across the state. Industry associations also reviewed the suggested certifications to determine their value.

DWD intends to conduct an annual review of this list to ensure alignment with employers. It is establishing a new application process for certifications not included in the updated list to be reviewed and considered. This process will be available to schools at the beginning of the 2019-20 school year.

Evaluation Criteria: The interagency group examined all of the suggested certifications against the criteria outlined below. In order for a certification to be included on the list for approval, the certification had to meet **all** of the following criteria:

1. Industry recognized and valued

The certifications were first vetted with employers to ensure the certifications are both recognized **and** valued by employers across the state. For example, a certification that was recognized, but did not necessarily have value, was not included on the list of certifications.

2. Aligned to CTE courses and/or programs of study

The industry certifications represent student mastery of content gained through completion of an aligned CTE course(s) and/or programs of study. The certifications reflect a mastery of the depth and breadth of the entire course, rather than a few standards.

¹ Students who earn a certification included on the 2018-19 list on or before September 30, 2019 (the deadline to submit the Graduation Report) may use that certification to satisfy the students' Graduation Pathway requirement.



3. Transference to postsecondary institutions as credit

Industry certifications, if aligned properly to coursework, should be accepted for credit by postsecondary institutions. Many industry certifications are already embedded within coursework at the postsecondary level, and students should be awarded credit for those certifications that they earn while in high school.

4. Transference to high-quality employment

Certifications on the list compiled by the DWD need to lead to high-quality employment. These certifications need to translate into job opportunities beyond entry level positions in occupations that are in high wage, high demand sectors. DWD's IN Demand Ranking methodology that projects demand and wage information for over 800 occupations across the state was used to determine transference to high quality employment.

Changes from the 2018-19 certifications list to the 2019-20 certifications list:

- Engaging with employers DWD, in addition to the other state agencies, intends to continually vet this list with employers from each sector to ensure high-value and usefulness. The list will be updated annually to ensure relevance for students and to maintain pace with Indiana's rapidly changing economy. This process will only improve as occupational data becomes more granular and with more effective partnerships between the state, K-12 schools, postsecondary institutions, and employers. Additionally, schools and employers may apply for certifications not on the updated list to be reviewed for future consideration.
- Expanding the list One goal of the 2019-20 list is to be more user-friendly and more easily digestible for students, parents, educators, and employers. One major change is instead of listing certifications in alphabetical order, as the current list does, the updated list breaks the certifications down by career cluster, for better alignment to courses. This will also be reflected in InTERS. The updated list also expands from the generalized title in the 2018-2019 list to the specific certifications under that general certification. One example is Automotive Service Excellence (ASE) Certifications. In the 2018-19 list, it simply lists ASE certifications, whereas the updated list separates this into the individual certifications under ASE a student could earn.
- Focusing on industry value Several certifications, such as the Certified Business Professional, Customer Service Professional, and IC3 Digital Literacy Certifications, were removed from the 2019-20 due to resounding input from employers that these certifications have no value or use in their sectors. The GWC, along with the other agencies, agreed that if the certification was not relevant to employers' needs, the state is doing a disservice to students by keeping it on this list. As the Governor and GWC continue to update CTE's real-world applicability and benefits for students, it is imperative that the list of certifications the state values reflect what employers consider worthwhile.
- Streamlining options Several of the certifications form the 2018-19 list (such as Certified Novell Administrator, ICEV Veterinary Medical Applicator, and Student Electronics Technician) no longer exist, have a new title, or were duplicative. The 2019-20 removes those that no longer exist or were duplications, as well as recognizes the current title of certifications.
- Transferring to postsecondary options As criteria numbers 3 and 4 above delineate, one of the primary goals for the updates to this list was transference to postsecondary options. The interagency group agreed this means translating into credits at a postsecondary institution and lead to high-quality employment. Some certifications, primarily the Pre-PACs in the Family and Consumer Sciences career cluster, lead to neither, per employers and institutions of higher education. Focusing on how the listed certifications must benefit students after high school, some current certifications were either replaced with more relevant certifications (such as ServSafe Food Manager) or removed altogether from the updated list (such as Culinary Arts Pre-PAC).

Indiana's Promoted Industry Certifications 2019-20

Agriculture

	Industry Certification	Issuing Organization	Graduation Pathways Qualifier
	mercial Pesticide Applicator	Office of Indiana	YES
	Exam ee Below for the 14 Categories)	State Chemist; Purdue University	(pass State Core)
1.	Agricultural Pest Management	Office of Indiana State Chemist	NO (Core Exam Required)
2.	Forest Pet Management	Office of Indiana State Chemist	NO (Core Exam Required)
3a.	Ornamental Pest Management	Office of Indiana State Chemist	NO (Core Exam Required)
3b.	Turf Management	State Chemist	(core Exam nequired)
4.	Seed Treatment	Office of Indiana State Chemist	NO (Core Exam Required)
5.	Aquatic Pest Management	Office of Indiana State Chemist	NO (Core Exam Required)
6.	Industrial Weed Management	Office of Indiana State Chemist	NO (Core Exam Required)
7.	Industrial, Institutional, Structural and Health-Related Pest Management	Office of Indiana State Chemist	NO (Core Exam Required)

8.	Termite Control	Office of Indiana	NO
		State Chemist	(Core Exam Required)
9.	Fumigation	Office of Indiana	NO
		State Chemist	(Core Exam Required)
10.	Community Wide Mosquito	Office of Indiana	NO
	Management	State Chemist	(Core Exam Required)
11.	Aerial Application	Office of Indiana	NO
		State Chemist	(Core Exam Required)
12.	Wood-Destroying Pest	Office of Indiana	NO
	Inspection	State Chemist	(Core Exam Required)
13.	Limited Certification (animal	Office of Indiana	NO
	repellents, mold control,	State Chemist	(Core Exam Required)
	sanitizers, etc)		
14.	Agricultural Fertilizer	Office of Indiana	NO
	Application	State Chemist	(Core Exam Required)
Land	scape Industry Certified	National	
<u>Tech</u>	nician (CLT) - Softscape	Association of	Yes
<u>Insta</u>	<u>llation</u>	Landscape	
		Professionals	
India	na Accredited Horticulturist	Indiana Nursery and	Yes
Certif	<u>ication</u>	Landscape	
		Association	
Wind	Turbine Climber and Rescue	Safety One	No
Remo	te Pilot (Emerging Field)	Federal Aviation	No
(FAA	Part 107)	Administration	

Arts, AV Tech and Communication

Industry Certification	Issuing Organization	Graduation Pathways Qualifier
Adobe Certified Associate (ACA)- ACA Specialist (Bundle 3 of the following associate exams) • Adobe Certified Associate (ACA)- After Effects • Adobe Certified Associate (ACA)-Animate • Adobe Certified Associate (ACA)-Dreamweaver • Adobe Certified Associate (ACA)-Flash • Adobe Certified Associate (ACA)-Illustrator • Adobe Certified Associate (ACA)-InDesign • Adobe Certified Associate (ACA)-Photoshop • Adobe Certified Associate (ACA)-Premiere Pro	Certiport	Yes (Bundle 3 of the associate exams)
Adobe Certified Expert (ACE) – After Effects	Adobe	Yes
Adobe Certified Expert (ACE) -Illustrator	Adobe	Yes
Adobe Certified Expert (ACE) -InDesign	Adobe	Yes

Adobe -Photo	Certified Expert (ACE) Shop	Adobe	Yes
	Certified Expert (ACE) erePro	Adobe	Yes
Avid C	ertified User – Pro Tools	Avid	Yes
	Web Devel	opment Series	
<u>(</u>	CIW Web Development Professional	Certification Partners	Yes
1.	CIW JavaScript Specialist (1DO-635)	Certification Partners	Yes
2.	CIW Database Design Specialist (1DO-541)	Certification Partners	Yes
3.	CIW Perl Specialist (1DO-437)	Certification Partners	Yes
	Web and Mol	oile Design Series	
1.	CIW Advanced HTML5 and CSS3 Specialist (1D0-620)	Certification Partners	Yes
2.	CIW User Interface Designer (ID0-621)	Certification Partners	Yes
3.	CIW Social Media Strategist (1D0-623)	Certification Partners	Yes
4.	CIW Data Analyst (1D0-622)	Certification Partners	Yes
Web Foundations Series			

<u>CIW W</u>	<u>/eb Foundations Associate</u> (1D0-610)	Certification Partners	Yes
1.	<u>CIW Internet Business</u> <u>Associate</u> (1D0-61A)	Certification Partners	No (must pass all 3)
2.	CIW Site Development Associate (ID0-61B)	Certification Partners	No (must pass all 3)
3.	CIW Network Technology Associate (1D0-61C)	Certification Partners	No (must pass all 3)
Ele	ctronic Systems Technician	Electronic Systems Professional Alliance (ESPA)	Yes

Architecture and Construction

Industry Certification	Issuing Organization	Graduation Pathways Qualifier
Autodesk Certified User (ACU)- AutoCAD	Certiport	Yes
Autodesk Certified Professional (ACP)- Inventor	Certiport	Yes
Autodesk Certified User (ACU) –Revit Architecture	Certiport	Yes
Certificate for Apartment Maintenance Technician (CAMT)	American National Standards Institute (ANSI)	Yes
Forklift Operator	USFC	No
EPA Section 608 (HVAC Excellence)	ESCO Group	No

Home Builders Institute/National Association of Home Builders – Carpentry Basic	NOCTI	Yes
Home Builders Institute/National Association of Home Builders - HVAC Installer Basic	NOCTI	Yes
Home Builders Institute/National Association of Home Builders – House Wiring Basic	NOCTI	Yes
NATE HVAC Support Technician	NATE proctor	Yes
NCCER Core Curriculum	National Center for Construction Education & Research	Yes
NCCER – Carpentry – Level 1	National Center for Construction Education & Research	Yes
NCCER- Carpentry- Level 2	National Center for Construction Education & Research	Yes
NCCER- Electrical – Level 1	National Center for Construction Education & Research	Yes
NCCER – Electrical – Level 2	National Center for Construction Education & Research	Yes

NCCER – HVAC- Level 1	National Center for Construction Education & Research	Yes
NCCER- HVAC – Level 2	National Center for Construction Education & Research	Yes
NCCER- Plumber – Level 1	National Center for Construction Education & Research	Yes
NCCER – Plumber – Level 2	National Center for Construction Education & Research	Yes
OSHA 10	OSHA Education Center	No
Business a	nd Marketing	
Industry Certification	Issuing Organization	Graduation Pathways Qualifier
Amazon Web Solutions (AWS) Certified Solutions Architect- Associate	Global Knowledge	Yes
Microsoft Office Master (pass the specialist exam in Outlook, Access or Powerpoint and the 2 Expert Exams)	Microsoft	Yes
Microsoft Office Expert (pass the 2 part Expert exam in Excel)	Certiport	Yes

Microsoft Office Specialist (MOS) Bundle Certifications (3 of 7, and one must be Excel)	Certiport	Yes (Bundle 3)	
QuickBooks Pro Adviser	Intuit	Yes	
Education	and Training		
Industry Certification	Issuing Organization	Graduation Pathways Qualifier	
Child Development Associate (CDA)	Council for Professional Recognition	Yes	
Health Sciences			
Industry Certification	Issuing Organization	Graduation Pathways Qualifier	
Certified Billing and Coding Specialist (CBCS)	National Healthcareer Association	Yes	
Certified Nursing Assistant (CNA)	Indiana Department of Health	Yes	
Certified Coding Assistant (CCA)	AHIMA	Yes	
Certified EKG Technician (CET)	National Healthcareer Association	No	
Certified Veterinary Assistant (CVA)	Texas Veterinary Medical Association (TVMA)	Yes	

Certified Medical Assistant (CMA)	American Association of Medical Assistants (AAMA)	Yes
Certified Clinical Medical Assistant (CCMA)	National Healthcareer Association	Yes
Certified Pharmacy Technician (CPhT)	National Healthcareer Association	Yes
Certified Phlebotomy Technician (CPT)	National Healthcare Association	No
National Entry Level Dental Assistant (NELDA)	Dental Assisting National Board, Inc, (DANB)	Yes

Hospitality and Human Services

Industry Certification	Issuing Organization	Graduation Pathways Qualifier
Certified Hospitality and Tourism Professional	American Hotel and Lodging Educational Institute (AHLEI)	Yes
ProStart National Certificate of Achievement	National Restaurant Association Educational Foundation (NRAEF)	Yes (bundle with ServSafe)
Indiana State Board of Cosmetology and Barber Examiners- 1500 Cosmetology	Indiana Professional Licensing Agency	Yes

Indiana State Board of Cosmetology and Barber Examiners – 1500 Barbering	Indiana Professional Licensing Agency	Yes
Indiana State Board of Cosmetology and Barber Examiners Esthetician	Indiana Professional Licensing Agency	Yes
Indiana State Board of Cosmetology and Barber ExaminersManicurist	Indiana Professional Licensing Agency	Yes
ServSafe Food Manager	National Restaurant Association	Yes

Information Technology (IT)

Industry Certification	Issuing Organization	Graduation Pathways Qualifier
Apple App Development with Swift Certification – Level 1	Certiport	Yes
Cisco Certified Network Associate (CCNA) (200-125 CCNA)	CISCO	Yes
CISCO Certified Entry Network Technician (CCENT) (100-105ICND1)	CISCO	Yes
CISCO CCNA- Cyber Ops (210-250 SECFND)	CISCO	Yes
CISCO CCNA Security (210-260 IINS)	CISCO	Yes
CIW Web Security Professional – Web Security Specialist	Certification Partners	Yes
CIW Web Security Professional – Web Security Associate	Certification Partners	Yes

Comp TIA A+ (220-901)	Computing Technology Industry Association (Comp TIA)	Yes
Comp TIA Cloud+ (CV0-002)	Computing Technology Industry Association (Comp TIA)	Yes
Comp TIA Network+ (N10-007)	Computing Technology Industry Association (Comp TIA)	Yes
Comp TIA IT Fundamentals (FCO-U51)	Computing Technology Industry Association (Comp TIA)	Yes
Comp TIA Linux+ (XK0-004)	Computing Technology Industry Association (Comp TIA)	Yes
Comp TIA Server+	Computing Technology Industry Association (Comp TIA)	Yes
Google IT Support Professional	Grow with Google	Yes
Microsoft Certified Solutions Associate (MCSA)	Microsoft	Yes

Microsoft Certified Solutions Expert (MCSE) (earn one from below) Business Applications Core Infrastructure Data Management and Analytics Mobility Productivity	Microsoft	Yes
Microsoft Technology Associate (MTA)	Microsoft	Yes

Public Safety

Industry Certification	Issuing Organization	Graduation Pathways Qualifier
Emergency Telecommunicator Certification	National Academies of Emergency Dispatch (NAED)	Yes
Certified Indiana County Jail Officer	Indiana Law Enforcement Academy (ILEA)	Yes
<u>CPR</u>	Red Cross	No
Emergency Medical Responder (EMR)	National Registry of Emergency Medical Technicians	Yes
EMT- Basic	National Registry of Emergency Medical Technicians	Yes
EMT- Advanced (AEMT)	National Registry of Emergency Medical Technicians	Yes

EMT- Paramedic	National Registry of Emergency Medical Technicians	Yes
Fire Fighter I	Indiana Department of Homeland Security	Yes
Fire Fighter II	Indiana Department of Homeland Security	Yes
Manufacturing		

Industry Certification	Issuing Organization	Graduation Pathways Qualifier
AWS Certified Welder	American Welding Society	Yes
AWS SENSE: Entry Level Welder	American Welding Society	Yes
AWS SENSE: Advanced Level Welder	American Welding Society	Yes
Associate Certified Electronics Technician (CETa)	Electronics Technicians Association, Inc	Yes
MSSC Certified Production Technician (CPT)	Manufacturing Skill Standards Council (MSSC)	Yes
MSSC Certified Logistics Technician (CLT)	Manufacturing Skill Standards Council (MSSC)	Yes

FANUC Certified Robot Operator-1 (FCR-01)	NOCTI	Yes
FANUC Certified Robot Operator -2 (FCR-02) (not yet available)	NOCTI	No
FANUC Certified Robot Technician-1 (FCR-TI) (not yet available)	NOCTI	No
FANUC Certified Robot Technician-2 (FCR-T2) (not yet available)	NOCTI	No
Global Logistics Associate (GLA)	APICS	Yes
Industrial Technology Maintenance (ITM)- Level I—Basic Mechanical Systems	National Institute for Metalworking Skills (NIMS)	Yes
Industrial Technology Maintenance (ITM)- Level I—Electrical Systems	National Institute for Metalworking Skills (NIMS)	Yes
NIMS Machining Level I- Measurement, Materials, and Safety	National Institute for Metalworking Skills (NIMS)	No
NIMS Machining Level I- CNC Mill Operations	National Institute for Metalworking Skills (NIMS)	Yes
SACA Certified Industry 4.0 Associate I – Basic Operations	Smart Automation Certification Alliance (SACA)	Yes
SACA Certified Industry 4.0 Associate II- Advanced Operations	Smart Automation Certification Alliance (SACA)	Yes
Yaskawa Motoman, DX100 Basic Programming	Yaskawa	Yes

Transportation and Logistics		
Industry Certification	Issuing Organization	Graduation Pathways Qualifier
Associate Certified Electronics Technician (CET)	International Society for Certified Electronics Technicians	Yes
ASE – Automobile and Light Truck Certifications (A1-A9)	National Institute of Automotive Service Excellence	Yes
ASE – Automobile and Light Truck Technician : Engine Repair (A1)	National Institute of Automotive Service Excellence	Yes
ASE – Automobile and Light Truck Technician : Automatic Transmission/Transaxle (A2)	National Institute of Automotive Service Excellence	Yes
ASE – Automobile and Light Truck Technician : Brakes (A5)	National Institute of Automotive Service Excellence	Yes
ASE – Automobile and Light Truck Technician: Electrical/ Electronic Systems (A6)	National Institute of Automotive Service Excellence	Yes
ASE – Automobile and Light Truck Technician: Engine Performance (A8)	National Institute of Automotive Service Excellence	Yes
ASE – Automobile and Light Truck Technician: Heating and Air Conditioning (A7)	National Institute of Automotive Service Excellence	Yes

ASE – Automobile and Light Truck Technician: Manual Drive Train and Axles (A3)	National Institute of Automotive Service Excellence	Yes
ASE- Automobile and Light Truck Technician: Suspension and Steering (A4)	National Institute of Automotive Service Excellence	Yes
	National Institute of Automotive Service Excellence	
ASE – Auto Maintenance and Light Repair (GI)	National Institute of Automotive Service Excellence	Yes
ASE Automobile Service Consultant (C1)	National Institute of Automotive Service Excellence	Yes
ASE- Medium/Heavy Truck Technician: Brakes (T4)	National Institute of Automotive Service Excellence	Yes
ASE- Medium/Heavy Truck Technician: Brakes (T4)	National Institute of Automotive Service Excellence	Yes
ASE- Medium/Heavy Truck Technician: Diesel Engines (T2)	National Institute of Automotive Service Excellence	Yes
ASE- Medium/Heavy Truck Technician: Drive Train (T3)	National Institute of Automotive Service Excellence	Yes
ASE- Medium/Heavy Truck Technician: Electrical/Electronic Systems (T6)	National Institute of Automotive Service Excellence	Yes

ASE- Medium/Heavy Truck Technician: Heating, Ventilation and A/C (HVAC) (T7)	National Institute of Automotive Service Excellence	Yes
ASE- Medium/Heavy Truck Technician: Preventative Maintenance Inspection (PMI) (T8)	National Institute of Automotive Service Excellence	Yes
ASE- Medium/Heavy Truck Technician: Suspension and Steering (T5)	National Institute of Automotive Service Excellence	Yes
ASE- Collision Repair and Refinish: Painting and Refinishing (B2)	National Institute of Automotive Service Excellence	Yes
ASE- Collision Repair and Refinish: NonStructural Analysis and Damage Repair (B3)	National Institute of Automotive Service Excellence	Yes
ASE- Collision Repair and Refinish: Structural Analysis and Damage Repair (B4)	National Institute of Automotive Service Excellence	Yes
MSSC Certified Logistics Technician (CLT)	Manufacturing Skill Standards Council (MSSC)	Yes
CDL - A	Bureau of Motor Vehicles	Yes
CDL-B	Bureau of Motor Vehicles	Yes
Level I - Evinrude Service - Technician Fundamental Level	Evinrude	Yes
I-CAR Automotive Collision Repair I	I-CAR	Yes
Mercury Outboard Certification	Mercury Marine	Yes

Yamaha Level I – Introduction to Outboard Systems	Yamaha Marine University	Yes