Ohio | Department of Higher Education

John R. Kasich, Governor
John Carey, Chancellor

REQUEST AND RECOMMENDATION

ONE YEAR OPTION
750- 899 Clock Hour Programs – Automotive Mechanics Technology

Background:

To provide another option for adult students to apply prior learning toward a degree, Ohio legislators established what has come to be known as the One-Year-Option through Section 363.120 House Bill 59 of the 130th General Assembly. The Chancellor of the Ohio Department of Higher Education, in consultation with the Superintendent of Public Instruction and the Governor's Office of Workforce Transformation, was tasked to establish a One-Year Option credit articulation system in which graduates of Ohio's adult career-technical institutions who complete a 900-hour program of study AND obtain an industry-recognized credential approved by the Chancellor will be able to receive 30 technical semester credit hours toward a technical degree upon enrollment in a public institution of higher education. The Chancellor was also to recommend a process to award proportional semester credit hours for adult career-technical institution students who complete a program of study between 600 and 899 hours AND obtain an industry-recognized credential approved by the Chancellor. The Chancellor convened a broad group of stakeholders to develop a system of articulation for the One Year Option that was presented in a report to the legislature called, *"Getting to 30: Establishing a One Year Option Credit Articulation System for Ohio."*

In order to implement the system of articulation developed with the stakeholders as well as address accreditation requirements for degree granting institutions, the Chancellor convened Credit Affirmation Teams (CATs) to conduct a peer review of programs and certifications for affirmation for a block of 30 semester hours of technical credit. The CATs were comprised of faculty and administrators from Ohio Technical Centers (OTCs) and an equal number from public degree granting colleges and universities in Ohio. The CATs were organized by four discipline clusters: Health and Allied Health, Building and Industrial Technology, Business and Information Technology, and Services. They were charged with reviewing the certifications and, if necessary, program content, to affirm that students completing the selected program at an Ohio Technical Center and earned approved certifications had demonstrated competencies equivalent to technical credit. CATs affirmed that programs over 900 hours, articulated to a block of 30 technical credit hours. For programs between 600-899 credit hours, the review resulted in a proportional amount of credit hours being awarded. This technical credit would then be granted, as a block, upon enrollment in a degree granting institution. Additional subject matter experts were consulted when core team members did not have sufficient content knowledge of the program being reviewed.

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Recommendation

As detailed in the attached template, the Building and Industrial Technology Credit Affirmation Team recommends that students will be eligible for a block of 25 semester hours of technical credit towards an *Associate of Technical Studies in Building and Industrial Technology* when:

- the student has successfully completed a 750- 899 clock hour program in Automotive Mechanics Technology at an Ohio Technical Center.

And currently holds **SIX** of the following credentials:

- ASE Student Exam: Engine Repair
- ASE Student Exam: Automatic Transmission and Transaxle
- ASE Student Exam: Manual Drive Train and Axles
- ASE Student Exam: Suspension and Steering
- ASE Student Exam: Brakes
- ASE Student Exam: Electronic/Electronic Systems
- ASE Student Exam: Heating and Air Conditioning
- ASE Student Exam: Engine Performance

And the following credential:

- OSHA 10 General Industry

Please note these certifications must be current and valid. If an individual's ASE Student Certifications have expired, the individual must have previously passed all of the student certifications and hold at least one current ASE technician certification (A1R-A8R) or an ASE Master Automobile Technician certification.

One-Year Option

Certification Affirmation Template

End of Comment Period: May 24, 2017 at 3:30 PM

No comments received, recommend approval

RECOMMENDATION	
The Vice Chancellor has verified that this institution has met the standards and requirements of the Ohio Department of Higher Education.	
SDavidson	5/31/17
Stephanie Davidson, Vice Chancellor of Academic Affairs	**Date**

APPROVAL	
JRCarey	6/8/17
John Carey, Chancellor	**Date**

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One-Year Option

Certification Affirmation Template

The Program Affirmation Template is designed to provide a common matrix for a peer review process acceptable to the Higher Learning Commission to soundly affirm awarding technical credit for Ohio Technical Center graduates who are eligible for the One Year Option. The template should be completed for every program/subject and signed by the co-chairs of each of the four-cluster program areas for every Industry-recognized credential and program reviewed.

Please note: All Ohio Technical Centers must be accredited by one of the following: Council on Occupational Education (COE) and/or Accrediting Commission of Career Schools and Colleges (ACCSC).

Program Name: Automobile/Automotive Mechanics Technology/ Technician **CIP Code:** 47.0604	**Cluster** ☐ Business & Information Technologies ☐ Health/Allied Health ☑ Industrial Trades ☐ Service Industries & Agriculture

CIP CODE DEFINITION

A program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. Includes instruction in brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drive trains, and heating and air condition systems.

STEP ONE: CREDENTIAL REVIEW

	Details/Explanation	**Comments**
Primary Industry Credential (if there are competing certifications complete page multiple times).	**Name:** Automotive Service Excellence (ASE) Student Certifications **Type:** ☐ License ☐ Registry ☑ Certification	**Student must complete at least six of the following ASE student certifications:** • ASE Student Exam: Engine Repair • ASE Student Exam: Automatic Transmission and Transaxle • ASE Student Exam: Manual Drive Train and Axles • ASE Student Exam: Suspension and Steering • ASE Student Exam: Brakes • ASE Student Exam: Electronic/Electronic Systems • ASE Student Exam: Heating and Air Conditioning • ASE Student Exam: Engine Performance

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Program requirements by credentialing body.	Post-secondary entry-level automotive training programs may use the ASE Student Certification program, regardless of their accreditation status or involvement with ASE, AYES, NATEF, or Skills USA. The exams are available each fall and spring.	**About the Exams:** The ASE Student Certification program is specifically designed to evaluate and certify students who are near the end of their studies. The National Institute for Automotive Service Excellence (ASE) developed the exams in partnership with Automotive Youth Educational Systems (AYES), National Automotive Technicians Education Foundation (NATEF), and SkillsUSA. For more information about the ASE Student Certification program, including dates, testing details, scoring criteria, and more, please visit www.ASEStudentCertification.com. **Renewal:** Student certification is valid for two years from the date the exam was taken. **Exam Integrity:** All tests are administered at the school through a secure computer-based testing (CBT) platform delivered via the Internet. A proctor, who is a staff person other than an automotive instructor, enables the exam for students and monitors their test sessions. ASE Student exams are reviewed periodically and updated to maintain currency with NATEF Standards Releases.
Hour Requirements (includes any instructional, lab/practice hours, or internship hours).	All competencies must be covered. There are no work experience requirements for student certification; the student simply needs to pass one or more of the student certification exams. Upon successful completion of an exam, the school prints the certificate, has it signed for validation, and then awards it to the student.	Programs should align with the NATEF Standards but are not required to be accredited by NATEF. http://www.natef.org/NATEF/media/NATEFMedia/Accreditation/Accreditation%20Docs/2013%20Accreditation%20Docs/2013%20Auto%20Docs/2013-Auto-Program-Standards-w-Employability-Print-Version.pdf

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Competencies demonstrated by credential attainment.	Engine Repair • General Engine Diagnosis; Removal and Reinstallation • Cylinder Head and Valve Train Diagnosis and Repair • Engine Block Assembly Diagnosis and Repair • Lubrication and Cooling Systems Diagnosis and Repair • General Knowledge Automatic Transmission and Transaxle • General Transmission and Transaxle Diagnosis • In-Vehicle Transmission and Transaxle Repair • Off-Vehicle Transmission and Transaxle Repair • General Knowledge Manual Drive Train and Axles • General Drive Train Diagnosis • Clutch Diagnosis and Repair • Transmission/Transaxle Diagnosis and Repair • Drive Shaft and Half Shaft, Universal and Constant-Velocity (CV) Joint Diagnosis and Repair • Drive Axle Diagnosis and Repair • Four-Wheel/All-Wheel Drive Component Diagnosis and Repair • General Suspension and Steering • General Steering Systems Diagnosis and Repair • Suspension Systems Diagnosis and Repair • Wheel Alignment Diagnosis, Adjustment, and Repair • Wheel and Tire Diagnosis and Repair Brakes • Hydraulic System Diagnosis and Repair • Drum Brake Diagnosis and Repair • Power Assist Units Diagnosis and Repair • Miscellaneous (Wheel Bearing, Parking Brakes, Electrical, Etc.) Electronic/Electronic Systems • General Electrical System Diagnosis	

- Battery Diagnosis and Repair
- Starting System, Diagnosis, and Repair
- Charging System, Diagnosis, and Repair
- Horn and Wiper/Washer Diagnosis and Repair
- Accessories Diagnosis and Repair

Heating and Air Conditioning

- A/C System Diagnosis and Repair
- Refrigeration System Component Diagnosis and Repair
- Heating, Ventilation, and Engine Cooling Systems Diagnosis and Repair
- General Knowledge

Engine Performance

- General Engine Diagnosis
- Computerized Engine Controls Diagnosis and Repair
- Ignition System Diagnosis and Repair
- Fuel, Air Induction, and Exhaust System Diagnosis and Repair
- Emissions Control Systems Diagnosis and Repair
- Engine Related Service

Rationale:

The Trades and Industry Credit Affirmation Team (CAT) utilized the following process to complete the assessment regarding the number of semester hours that would be awarded at the college level as block credit based on industry credential(s) plus 750-899 clock hours earned at an Ohio Technical Center (OTC).

- Research the competencies tested by the industry credential(s). The Trades and Industry CAT reviewed information about the industry credential(s) to determine the competencies signaled by earning the credential(s).
- Complete a nationwide internet search to review how other accredited colleges and universities are applying credit to ASE Student Certifications as a point of comparison. The Kansas Board of Regents has developed an articulation for ASE Student Certifications for college credit. Please see the below chart for credit awarded by the Kansas Board of Regents.

Certificate A "Common Courses" Automotive Service Technician Level 1 • ASE Student Brakes • ASE Student Exam Electrical • ASE Student Exam Engine Performance • ASE Student Exam Suspension and Steering	Credit Earned: 12 credit hours

- Review OSHA 10-Hour Hazard Recognition Training for the General Industry. OSHA 10 includes content essential to general-related work such as fall protection, personal protective equipment, fire prevention and safety, OSHA inspection procedures and more.

The Trades and Industry CAT confirms:

- The certifications exams are valid, reliable and peer-reviewed on a regular basis to ensure the content accurately measures intended competencies.
- The ASE exams are administered through a secure process and delivered in a computer-based format to improve security and maintain currency of content.
- The competencies measured by the ASE exams are developed by industry and reflect industry standards.

The Trades and Industry CAT also considered competencies signaled by lab and practical learning experiences. As part of the program offered by OTCs, student will participate in lab/practical experience as recommended by the local program advisory committee to meet local business and industry needs. The lab/practical experiences will reinforce the instructional competencies through hands-on learning.

The eight modules included in NATEF were discussed, but the group determined that a 750-899 clock hours would be insufficient to teach all those modules. A longer clock hour program would likely consist of all eight modules. The team concurred that there was value in having lab/practical, internships and/or externships as part of the program to meet local industry/business needs.

Upon successful completion of the 750- 899 clock hour program in the field of Automotive Technology at an OTC and meeting the below credentialing pathway:

- Students must obtain 6 of the following certifications:
    - ASE Student Exam: Engine Repair
    - ASE Student Exam: Automatic Transmission and Transaxle
    - ASE Student Exam: Manual Drive Train and Axles
    - ASE Student Exam: Suspension and Steering
    - ASE Student Exam: Brakes
    - ASE Student Exam: Electronic/Electronic Systems
    - ASE Student Exam: Heating and Air Conditioning
    - ASE Student Exam: Engine Performance
- AND the following certification:
    - OSHA 10 general industry certification

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	A student shall be awarded 25 technical semester hours toward completion of an Association of Technical Studies at a public degree granting college or university.	
ONLY IF NECESSARY TO AFFIRM 25 CREDITS----STEP TWO: PROGRAM-RELATED COMPETENCIES OBTAINED OUTSIDE OF PRIMARY CREDENTIAL		
	Details/Explanation	**Comments**
Additional related complementary credential(s) or badge(s) (e.g. OSHA 10, CPR).	OSHA 10 – General Industry	
Competencies demonstrated by additional credential attainment.	Mandatory - 7 hours of training • Introduction to OSHA • Walking and Working Surfaces, including fall protection • Exit Routes, Emergency Action Plans, Fire Prevention Plans, and Fire Protection • Electrical • Personal Protective Equipment • Hazard Communication Elective - 2 hours of Training Must present at least two hours of training on the following topics. At least two topics must be presented. The minimum length of any topic is one-half hour. • Hazardous Materials • Materials Handling • Machine Guarding • Introduction to Industrial Hygiene • Bloodborne Pathogens • Ergonomics • Safety and Health Program • Fall Protection Optional - 1 hour of Training. Teach other general industry hazards or policies and/or expand on the mandatory or elective topics. The minimum length of any topic	Must be taught by a Certified OSHA Outreach Trainer. https://www.osha.gov/dte/outreach/program_requirements.pdf OSHA safety training compliance standards are for the jobsite and individuals receive a wallet card and certificate. OSHA 10 can only be taught by an OSHA Outreach Trainer in good standing, who has been approved by OSHA standards and has completed OSHA Train-the Train course work.

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	is one-half hour.		
Description of additional program elements beyond primary credential.			
Program related competencies/learning outcomes outside of credential(s). Include how competencies are demonstrated.			
Related Programs as of Fall 2016:	**Ohio Technical Center** Wayne County Schools Career Center	**Program Name** Automotive Technologies	**Clock Hours** 850
Committee Members and Subject Matter Experts:	**Name**	**Role**	**Institution**
	Barbara Wagner	Co-Chair	Upper Valley Career Center
	Kelly Zelesnik	Co-Chair	Lorain County Community College
	Jon Buttelwerth	Member	Cincinnati State Technical and Community College
	Carrie Fife	Member	Pickaway Ross Career & Technology Center
	Carl Hilgarth	Member	Shawnee State University
	Jeffrey Jones	Member	Ashland County West Holmes Career Center
	Larraine Kapka	Member	Sinclair Community College
	Mike Sizemore	Member	Miami Valley Career Technical Center
	Greg Timberlake	Member	North Central State College
Other Parameters of Competency.			
OTHER COMMENTS.	Material covered is adequate to allow 25 hours of credit to be granted.		
AFFIRMED NUMBER OF TECHNICAL BLOCK CREDITS	25 semester hours		**LENGTH OF TIME CREDENTIAL CAN BE USED FOR ONE-YEAR OPTION:** Must have completed a 750-899 clock hour program at an Ohio Technical Center and meets the below credentialing

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Certification Affirmation Template

pathway:

- Students must obtain six of the following certifications:
  - ASE Student Exam: Engine Repair
  - ASE Student Exam: Automatic Transmission and Transaxle
  - ASE Student Exam: Manual Drive Train and Axles
  - ASE Student Exam: Suspension and Steering
  - ASE Student Exam: Brakes
  - ASE Student Exam: Electronic/Electronic Systems
  - ASE Student Exam: Heating and Air Conditioning
  - ASE Student Exam: Engine Performance
- AND the following certification:
  - OSHA 10 General Industry

The above certifications must be current and valid. If an individual's ASE Student Certifications have expired, the individual must have previously passed all of the student certifications and hold at least one current ASE technician certification (A1R-A8R) or an ASE Master Automobile Technician certification.

Co-chair signatures:

Dr. Barbara G. A. Wagner, Adult Division Director
Upper Valley Career Center – Ohio Technical Center

Kelly A. Zelesnik, Dean of Engineering Technologies
Lorain County Community College

Date: 5/5/2017