Advanced Automotive Services Technician (Advanced Certificate)

Catalog Effective Term:

Program Code: CVASV2

Credential: Advanced Certificate

High Demand Occupation, High Skill Occupation, High Wage Occupation

The Advanced Automotive Services Technician Certificate builds on the foundational skills gained in the Automotive Services Technician (CTASVT) program, allowing students to refine and tailor their expertise to align with their specific career goals in the automotive field. Completion of the CTASVT certificate is required for entry into this advanced certificate. This program offers specialized training in critical areas such as Engine Diagnosis and Repair, Heating and Air Conditioning Systems, Engine Drivability, and Advanced Transmissions. Additionally, students will broaden their skill set through courses in Applied Auto Body Welding and Alternative Vehicle Fundamentals and Safety.

The CTASVT and the Advanced Automotive Services Technician (CVASV2) certificates are both embedded within the [Transportation Technologies (APOETT - Auto Services Concentration)](#), enabling students to achieve valuable credentials as they work toward their degree.

Program Admission Requirements

Completion of the [Automotive Services Technician (CTASVT)](#) certificate.

Minimum Credits Required for the Program: 13

Major/Area Requirements

ATT 136	History of Transportation Technologies	3
ATT 251	Engine Diagnosis and Repair	2
ATT 257	Heating and Air Conditioning Systems	2
ATT 258	Engine Drivability	2
ATT 266	Advanced Transmissions	2
Restricted Elective(s)		**2**
Select one of the following:		
ATT 114	Applied Transportation Welding	
ATT 180	Alternative Vehicle Fundamentals & Safety	
Total Credits		**13**

Program Code: CVASV2	Current Program Name: Advanced Automotive Services Technician	Effective Term: Fall 2025
Division Code: ATP	Department: Transportation Technologies	

Directions:

1. Attach the current program listing from the WCC catalog or website and indicate any changes to be made.
2. Draw lines through any text that should be deleted and write in additions. Extensive narrative changes can be included on a separate sheet.
3. Check the boxes below for each type of change being proposed. Changes to courses, discontinuing a course, or adding new courses as part of the proposed program change, must be approved separately using CurricUNET, but should be submitted at the same time as the program change form.
4. If changes affect the program assessment plan or if program outcomes are updated, please submit a Program Assessment Plan Change form. These changes must be approved separately from the program change form and should be submitted at the same time. Current program assessment plans can be found on the Curriculum and Assessment Program Information page.

Requested Changes:

☒ Remove course(s): ASV 135, ABR 111, ASV 135, ASV 174, ASV 257, ASV 266, ASV 274, ASV 277, ASV 279, CSS 200, CSS 205, CSS 285, CST 185, ~~MST 100~~ MST 110

☒ Add course(s): ATT 136 for major area requirements and ATT 180 for restricted elective.

☐ Program title (new title is _____)
☐ Description
☐ Advisors
☐ Program admission requirements
☐ Continuing eligibility requirements

☐ Program outcomes (may also result from removing or adding a course)*
☐ Program assessment plan*
☐ Accreditation information
☐ Other Prior discipline codes replaced with ATT

Note: A change to the Award Type requires the submission of a new program proposal form and a separate program inactivation form. Contact the Director of Curriculum & Assessment for more information.

Show all changes on the catalog page you attach.

* Please submit a Program Assessment Plan Change form.

Rationale for proposed changes:

The Advanced Automotive Services Technician Certificate builds on the foundational skills gained in the Automotive Services Technician (CTASVT) program, allowing students to refine and tailor their expertise to align with their specific career goals in the automotive field. Completion of the CTASVT program is required for entry into this advanced certificate. This program offers specialized training in critical areas such as Engine Diagnosis and Repair, Heating and Air Conditioning Systems, Engine Drivability, and Advanced Transmissions. Additionally, students will broaden their skill set through courses in Applied Auto Body Welding and Alternative Vehicle Fundamentals and Safety. Both the CTASVT certificate and the Advanced Automotive Services Technician (CVASV2) certificate are embedded within the Transportation Technologies (APOETT) – Auto Services concentration, enabling students to achieve valuable credentials as they work toward their degree.

Financial/staffing/equipment/space Implications:

N/A

List departments that have been consulted regarding their use of this program.

PROGRAM CHANGE FORM

Transportation Technologies

Signatures:

Reviewer	Print Name	Signature	Date
Initiator	Rocky Roberts	Rocky Robert	11/11/24
Department Chair	allun BW	allun BW	10/11/24
Division Dean/Administrator	Ein Samulski	Ein Samulski	11/11/24

Please return completed form to the Office of Curriculum & Assessment, SC 257
or by e-mail to curriculum.assessment@wccnet.edu
Once reviewed by the appropriate faculty committees we will secure the signature of the VPI.

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or by e-mail to curriculum.assessment@wccnet.edu
Once reviewed by the appropriate faculty committees we will secure the signature of the VPI.

Reviewer	Print Name	Signature	Date
Curriculum Committee Chair	Randy Van Wagnen	R Van Wagnen	3/20/25
Assessment Committee Chair	Jessica Hale	Jessica Hale	3/20/25
Executive Vice President for Instruction	Dr. Brandon Tucker		3/21/25

Do not write in shaded area. Entered in: Banner_____ C&A Database_____ Log File _____

Reviewed by C&A Committee 2/6/25

Manufacturing & Automotive

Advanced Automotive Services Technician (CVASV2)
Advanced Certificate
Program Effective Term: **Fall 2022**

High Demand Occupation   High Skill Occupation   High Wage Occupation

This advanced certificate builds on the electrical and mechanical skills developed in the Automotive Services Technician (CTASVT) certificate. This advanced certificate prepares students for employment as a certified automotive technician. The program also prepares the student for the State of Michigan certification exams. Using specialized electrical diagnostic equipment students will diagnose and repair vehicle systems such as Automotive Engines, Automatic and Manual Transmissions, Automotive HVAC systems and Powertrain Drivability systems.

Program Admission Requirements:
Academic Reading and Writing Levels of 6, Academic Math Level 3, and completion of the Automotive Services Technician (CTASVT) certificate

Major/Area Requirements		(13 credits)
ASV 135	Facility Operations	3
ASV 251	Engine Diagnosis and Repair	2
ASV 257	Heating and Air Conditioning Systems	2
ASV 258	Engine Drivability	2
ASV 266	Advanced Transmissions	2
Elective	Restricted Elective(s): ABR 111, ABR 114, ASV 135, ASV 174, ASV 257, ASV 266, ASV 274, ASV 277, ASV 279, CSS 200, CSS 205, CSS 285, CST 185, MST 110	2

Minimum Credits Required for the Program: **13**

WASHTENAW COMMUNITY COLLEGE

PROGRAM CHANGE FORM

Program Code: CVASV2	Current Program Name: Advanced Automotive Services Technician	Effective Term: Fall 2022
Division Code: ATP	Department: Transportation Technologies	

Directions:

1. Attach the current program listing from the WCC catalog or website and indicate any changes to be made.

2. Draw lines through any text that should be deleted and write in additions. Extensive narrative changes can be included on a separate sheet.

3. Check the boxes below for each type of change being proposed. Changes to courses, discontinuing a course, or adding new courses as part of the proposed program change, must be approved separately using CurricUNET, but should be submitted at the same time as the program change form.

4. If changes affect the program assessment plan or if program outcomes are updated, please submit a Program Assessment Plan Change form. These changes must be approved separately from the program change form and should be submitted at the same time. Current program assessment plans can be found on the Curriculum and Assessment Program Information page.

Requested Changes:

X Remove course(s): See attached
X Add course(s): See attached
☐ Program title (new title is _____)
☐ Description
☐ Advisors
☐ Program admission requirements
☐ Continuing eligibility requirements

Show all changes on the catalog page you attach.

* Please submit a Program Assessment Plan Change form.

☐ Program outcomes (may also result from removing or adding a course)*
☐ Program assessment plan*
☐ Accreditation information
☐ Other _____

Note: A change to the Award Type requires the submission of a new program proposal form and a separate program inactivation form. Contact the Director of Curriculum & Assessment for more information.

Rationale for proposed changes:
Minor changes and corrections to: Course contact hours, Course(s) removed that were inactivated and replaced with concentration applicable course(s), Reviewed and refined the restricted elective course list(s) per concentration and reviewed the students' pathway to completion based on frequency of scheduling (Sun/Moon chart).

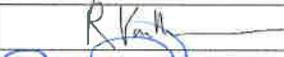**Financial/staffing/equipment/space implications:**

List departments that have been consulted regarding their use of this program.
All departments that are affected have been consulted.

Signatures:

Reviewer	Print Name	Signature	Date
Initiator	ALLEN DAY	_signature_	12/6/2021
Department Chair	Rocky Roberts/Mike Duff	_signature_	12/6/6
Division Dean/Administrator	_signature_	_signature_	12/9/2021

Please return completed form to the Office of Curriculum & Assessment, SC 257 or by e-mail to curriculum.assessment@wccnet.edu
Once reviewed by the appropriate faculty committees we will secure the signature of the VPI and President.

Reviewer	Print Name	Signature	Date

Curriculum Committee Chair	Randy Van Wagnen		2-7-22
Assessment Committee Chair	SHAWN DERON		2·11·22
Vice President for Instruction	Kimberly Hurns		2-11-22
Do not write in shaded area. Entered in: Banner		C&A Database	Log File

Reviewed by C&A Committees 1/27/22

Manufacturing & Automotive

Advanced Automotive Services Technician (CVASV2)
Advanced Certificate
Program Effective Term: **Fall 2020**

This advanced certificate builds on the electrical and mechanical skills developed in the Automotive Services Technician (CTASVT) certificate. This advanced certificate prepares students for employment as a certified automotive technician. The program also prepares the student for the State of Michigan certification exams. Using specialized electrical diagnostic equipment students will diagnose and repair vehicle systems such as Automotive Engines, Automatic and Manual Transmissions, Automotive HVAC systems and Powertrain Drivability systems.

Program Admission Requirements:
Academic Reading and Writing Levels of 6, Acadmic Math Level 3, and completion of the Automotive Services Technician (CTASVT) certificate

Major/Area Requirements		(13 credits)
ASV 135	Facility Operations	3
ASV 251	Engine Diagnosis and Repair	2
ASV 257	Heating and Air Conditioning Systems	2
ASV 258	Engine Drivability	2
ASV 266	Advanced Transmissions	2
	Restricted Elective(s): ABR 140 or WAF 103	2

Minimum Credits Required for the Program: **13**

PROGRAM PROPOSAL FORM

X   **Preliminary Approval** – Check here when using this form for preliminary approval of a program proposal, and respond to the items in general terms.

☐   **Final Approval** – Check here when completing this form after the Vice President for Instruction has given preliminary approval to a program proposal. For final approval, complete information must be provided for each item.

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Program Name:

Division and Department:

Type of Award:

Effective Term/Year:

Initiator:

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Advanced Automotive Services Technician (CVASV2)

Transportation Technologies

☐ AA ☐ AS   ☐ AAS

☐ Cert. X Adv. Cert. ☐ Post-Assoc. Cert. ☐ Cert. of Comp.

Fall 2020

Transportation Technologies Faculty (Allen Day, Robert Lowing, Shawn Deron)

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Program Code:

CVASV2

CIP Code:

470604

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Program Features
Program's purpose and its goals.

Criteria for entry into the program, along with projected enrollment figures.

Connection to other WCC programs, as well as accrediting agencies or professional organizations.

Special features of the program.

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This program allows students to design a program of study to meet specific needs, and is a good option for students who are focusing on a career in the transportation industry. This program allows for customization of coursework to meet the requirements of the transfer college or university. An advisor can help students determine interests, career and educational goals, as well as provide transfer and career information.

This proposed program (CVASV2) will be accompanied with program updates (CTASVT) and a proposal (APOETT) to align and streamline a student's chosen concentration within the Transportation Technologies Department. All of the proposed programs and program updates focus on a guided pathway for students to complete certificates and degrees for their selected concentrations. These proposals and updates are intended to produce a better prepared student for employment opportunities and lead to an increased completion rate.

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Need

Need for the program with evidence to support the stated need.

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This new certificate is the combination of one existing certificate program (CTASVT) and one degree program (APASRV) that have existed successfully at WCC. All of these programs are active and have graduates every academic year. This program proposal will be accompanied with program updates and proposals to align and streamline a student's chosen concentration within the Transportation Technologies Department. All of the proposed programs and program updates focus on a guided pathway for students to complete certificates and degrees for their concentrations. This proposals and other proposals and updates are intended to lead to a greater completion rate.

Students that complete the base certificate (CTASVT) and this advanced certificate (CVASV2) will have completed the ASV concentration courses that are required for an APOETT degree.

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Program Outcomes/Assessment	Outcomes	Assessment method
State the knowledge to be gained, skills to be learned, and attitudes to be developed by students in the program. Include assessment methods that will be used to determine the effectiveness of the program.	1. Diagnose and repair vehicle engine components. 2. Perform engine related repairs on project vehicles. 3. Identify powertrain control module faults using vehicle-specific equipment.	Technical artifacts embedded in the certificate capstone courses (ASV 251, ASV 258).

Curriculum	Please see the attached spreadsheet for the breakdown of the courses needed for this certificate.
List the courses in the program as they should appear in the catalog. List minimum credits required. Include any notes that should appear below the course list. Associate degree programs must provide a semester by semester program layout.	

Budget

Specify program costs in the following areas, per academic year:

	START-UP COSTS	ONGOING COSTS
Faculty	$.	$.
Training/Travel	.	.
Materials/Resources	.	.
Facilities/Equipment	.	.
Other	.	.
TOTALS:	$.	$.

Program Description for Catalog and Web site

This advanced certificate builds on the electrical and mechanical skills developed in the Automotive Services Technician (CTASVT) certificate. This advanced certificate prepares students for employment as a certified automotive technician. The program also prepares the student for the State of Michigan Mechanic certification tests as well as the National Institute for Automotive Service Excellence (ASE) certification exams.

Using specialized electrical diagnostic equipment students will diagnose and repair vehicle systems, including:
Automotive Engines,
Automatic and Manual Transmissions,
Automotive HVAC systems, and
Powertrain Drivability systems.

Program Information	Accreditation/Licensure - Advisors - Allen Day, Justin Morningstar, Niki Lee Advisory Committee - Automotive service Admission requirements - College entry scores in Math (3), Reading (6) and Writing(6) → *CTASVT* Articulation agreements - None Continuing eligibility requirements -

Assessment plan:

Program outcomes to be assessed	Assessment tool	When assessment will take place	Courses/other populations	Number students to be assessed
Diagnose and repair vehicle engine components.	Student achievement checklists	Fall 2024	All sections of ASV 251	All students
Perform engine related repairs on project vehicles	Student project checklists	Fall 2024	All sections of ASV 251	All students
Identify powertrain control module faults using vehicle-specific equipment.	Outcome related exam questions.	Fall 2024	All sections of ASV 258	All students

Scoring and analysis plan:

1. Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally-developed rubric, external evaluation, other). Attach the rubric.

   All outcomes will be scored using a departmentally developed answer keys and rubric(s)

2. Indicate the standard of success to be used for this assessment.

   On all outcomes 70% of all students will score 70% or higher on the outcome related exam questions or rubric items.

3. Indicate who will score and analyze the data.

   Departmental Faculty

REVIEWER	PRINT NAME	SIGNATURE	DATE
Department Chair/Area Director	Allen Day Justin Morningstar		12/12/2019
Dean	Brandon Tucker		12/13/19
Curriculum Committee Chair	LISA VERSEY		1/30/20
Please submit completed form to the Office of Curriculum and Assessment (SC 257). **Once reviewed by the appropriate faculty committees, we will secure the signature of the VPI and President.**			
Vice President for Instruction ☐ Approved for Development ☐ Final Approval	Kimberly Hurns		2/3/2020
President	Rose Bellanca		5/20/20
Board Approval			4/28/20

Reviewed by C&A Committees 1/23/20

	CTASV2 (pick new name)		
	Class	**Title**	Minimum Credits
	ASV 135	Facility Operations	2
	ASV 257	Heating and Air Conditioning Systems	2
	ASV 264	Advnaced Transmissions and Drivetrain	2
	ASV 258	Engine Drivability	2
	ASV 251	Engine Diagnosis and Repair	2
	Restricted Elective(s) 1: Select 2 credits from: ABR 140 or WAF 103	Applied Auto Body Welding/Introduction to Welding Processes	2
		Total	**12**