

Program Information Report

**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, Academic Math Level 3, and completion of the Automotive Services Technician (CTASVT) certificate

<b>Major/Area Requirements</b>		<b>(13 credits)</b>
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.

<b>Program Name:</b>	<u>Advanced Automotive Services Technician (CVASV2)</u>	<b>Program Code:</b>
<b>Division and Department:</b>	<u>Transportation Technologies</u>	<u>CVASV2</u>
<b>Type of Award:</b>	<input type="checkbox"/> AA <input type="checkbox"/> AS <input type="checkbox"/> AAS  <input type="checkbox"/> Cert. X Adv. Cert. <input type="checkbox"/> Post-Assoc. Cert. <input type="checkbox"/> Cert. of Comp.	
<b>Effective Term/Year:</b>	<u>Fall 2020</u>	<b>CIP Code:</b>
<b>Initiator:</b>	<u>Transportation Technologies Faculty (Allen Day, Robert Lowing, Shawn Deron)</u>	<u>470604</u>
<b>Program Features</b> 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.	<p>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.</p> <p>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.</p>	
<b>Need</b>  Need for the program with evidence to support the stated need.	<p>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.</p> <p>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.</p>	

<p><b>Program Outcomes/Assessment</b></p> <p>State the knowledge to be gained, skills to be learned, and attitudes to be developed by students in the program.</p> <p>Include assessment methods that will be used to determine the effectiveness of the program.</p>	<p><u>Outcomes</u></p> <ol style="list-style-type: none"> <li>1. Diagnose and repair vehicle engine components.</li> <li>2. Perform engine related repairs on project vehicles.</li> <li>3. Identify powertrain control module faults using vehicle-specific equipment.</li> </ol>	<p><u>Assessment method</u></p> <p>Technical artifacts embedded in the certificate capstone courses (ASV 251, ASV 258).</p>
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<p><b>Curriculum</b></p> <p>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.</p> <p>Associate degree programs must provide a semester by semester program layout.</p>	<p>Please see the attached spreadsheet for the breakdown of the courses needed for this certificate.</p>																							
<p><b>Budget</b></p> <p>Specify program costs in the following areas, per academic year:</p>	<table border="1"> <thead> <tr> <th></th> <th>START-UP COSTS</th> <th>ONGOING COSTS</th> </tr> </thead> <tbody> <tr> <td><b>Faculty</b></td> <td>\$ .</td> <td>\$ .</td> </tr> <tr> <td><b>Training/Travel</b></td> <td>.</td> <td>.</td> </tr> <tr> <td><b>Materials/Resources</b></td> <td>.</td> <td>.</td> </tr> <tr> <td><b>Facilities/Equipment</b></td> <td>.</td> <td>.</td> </tr> <tr> <td><b>Other</b></td> <td>.</td> <td>.</td> </tr> <tr> <td><b>TOTALS:</b></td> <td>\$ .</td> <td>\$ .</td> </tr> </tbody> </table>				START-UP COSTS	ONGOING COSTS	<b>Faculty</b>	\$ .	\$ .	<b>Training/Travel</b>	.	.	<b>Materials/Resources</b>	.	.	<b>Facilities/Equipment</b>	.	.	<b>Other</b>	.	.	<b>TOTALS:</b>	\$ .	\$ .
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<p><b>Program Description for Catalog and Web site</b></p>	<p>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.</p> <p>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.</p>																							

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

<b>Program outcomes to be assessed</b>	<b>Assessment tool</b>	<b>When assessment will take place</b>	<b>Courses/other populations</b>	<b>Number students to be assessed</b>
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		6/30/20
<p>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.</p>			
Vice President for Instruction <input type="checkbox"/> Approved for Development <input type="checkbox"/> 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*

	<b>CTASV2 (pick new name)</b>		
	<b>Class</b>	<b>Title</b>	<b>Minimum Credits</b>
	ASV 135	Facility Operations	2
	ASV 257	Heating and Air Conditioning Systems	2
	ASV 264	Advanced 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
		<b>Total</b>	<b>12</b>