Program Information Report

Advanced Manufacturing

Electric Vehicle (EV) Safety & Fundamentals (CTEVSF) Certificate

Program Effective Term: Fall 2024

High Demand Occupation High Skill Occupation High Wage Occupation

In this program, students will be introduced to the rapidly growing electric vehicle (EV) market. Students will learn the safety standards, precautions, and best practices needed when working around EV's. Topics of study will include basic electrical system identification and testing along with ever evolving new technologies incorporated in alternativeenergy vehicles such as EV's. This mini-certificate will prepare students for EV specific ASE testing required for the industry.

Major/Area Red	quirements	(10 credits)
ASV 131	Automotive Electrical	4
ATT 180	Alternative Vehicle Fundamentals & Safety	2
ATT 280	Introduction to Electric Vehicles (EV)	4

Minimum Credits Required for the Program:

10

Program Information Report

Transportation Technologies

Electric Vehicle (EV) Safety & Fundamentals (CTEVSF) Certificate

Program Effective Term: Fall 2024

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In this program, students will be introduced to the rapidly growing electric vehicle (EV) market. Students will learn the safety standards, precautions, and best practices needed when working around EV's. Topics of study will include basic electrical system identification and testing along with ever evolving new technologies incorporated in alternativeenergy vehicles such as EV's. This mini-certificate will prepare students for EV specific ASE testing required for the industry.

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Washtenaw Community College

PROGRAM PROPOSAL FORM

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.

Program Name: Division and Department: Type of Award:	ATP - Advanced Transportation AA AS AAS Cert. Adv. Cert. Post-Assoc. Cert. Cert. of Comp.		
Effective Term/Year: Initiator:		CIP Code: 47.0604	
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.	Fall 2024 CIP Code Shawn Deron / Justin Morningstar		

Need for the program with evidence to support the stated need.	This program is being developed in coord vehicle (EV) DOE training grant known and as a result of collaboration with the Center for Connected and Automated Tra Drives Degrees Community College Collaboration consumptions of the ATT advisory board discussions consulted the consumption of the content of the	n internally as the Power Project e EV jobs academy (EVJA), ransportation (CCAT), Detroit ollaborative (D3C3) along with nsisting of industry partners and ere able to identify the key areas	
Program Outcomes/Assessment 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.	Outcomes 1. Identify safety standards and protocols when operating alternative energy vehicles. 2. Recognize and differentiate alternative energy vehicle components and systems. 3. Perform basic service procedures on electric vehicles.	Assessment method 1. Outcome-related exam questions 2. Outcome-related exam questions 3. Outcome-related student achievement checklist	

Curriculum 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.	 ASV 131 Automotive Electrical* ATT 180 Alternative Vehicle Fundamentals & Safety ATT 280 Introduction to Electric Vehicles (EV) Total: (* Currently existing course) 	4 credit hours2 credit hours4 credit hours10 credit hours
Budget Specify program costs in the following areas, per academic year:	START-UP COSTS ONGOING COSTS Faculty \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	

Program Description for Catalog and Web site	In this program, students will be introduced to the rapidly growing electric vehicle (EV) market. Students will learn the safety standards, precautions, and best practices needed when working around EVs. Topics of study will include basic electrical system identification and testing along with ever evolving new technologies incorporated in alternative energy vehicles such as EVs. This mini-certificate will prepare students for EV-specific ASE testing required for the industry.
Program Information	Accreditation/Licensure - ASE Tests Advisors - Niki Lee, Justin Morningstar, Shawn Deron Advisory Committee - Same as ASV/ATT Admission requirements - Articulation agreements - TBD 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
Identify safety standards and protocols when operating alternative energy vehicles.	ATT 180 - Outcome-related exam questions	Fall 2027	All sections of ATT 180	All students
Recognize and differentiate alternative energy vehicle components and systems.	ATT 180 - Outcome-related exam questions	Fall 2027	All sections of ATT 180	All students
Perform basic service procedures on electric vehicles.	ATT 280 - Outcome- related student achievement checklist.	Fall 2027	All sections of ATT 280	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.

Outcome-related exam questions will be scored using an answer key. Student achievement checklists will be scored with a departmentally-developed rubric. 2. Indicate the standard of success to be used for this assessment.

The standards of success used for each outcome will be 70% of the students will score 70% or higher on the outcome-related questions or outcome-related rubric items.

3. Indicate who will score and analyze the data.

Departmental faculty will score and analyze the data for reporting.

REVIEWER	PRINT NAME	SIGNATURE	DATE
Department Chair/Area Director	Rocky Roberts	Rocky Robert	2/1/24
Dean	Jimmie Baber	Jimmie Baber	2/1/24
or by	email to curriculum.asses	Curriculum and Assessment (SC 257 ssment@wccnet.edu.	
Curriculum Committee Chair	Randy Van Wagnen	K Vanh	2-12-24
Assessment Committee Chair	Jessica Hale	Male	2/13/24
Interim Vice President for Instruction Approved for Development Final Approval	Dr. Brandon Tucker	Para	2/4/24
President	Dr. Rose Bellanca	Roub bulance	2/18/24
Board Approval			2/27/24

Reviewed by C&A committees on 2/8/24