

2022-23 ACADEMIC PROGRAMS

POWERTRAIN DEVELOPMENT TECHNICIAN (APPDT)

Associate in Applied Science

In this program, you will develop the knowledge and skills to perform exciting powertrain testing in unique testing environments. You will set up and operate real transportation testing systems in Washtenaw Community College's multiple dynamometer laboratories. Become a technician and perform dynamometer setup and testing including the operation of complex analytical test equipment and test software.

The skills you will acquire from this program will begin your career in one of our region's many powertrain development facilities.

If you are serious about cars, get the degree you need to make them your career.

This is a **high demand, high skill** and **high wage** program as defined by the [Michigan Community College Network](#).

Do you have another career in mind? [Search for careers](#)

Description

In this program, students will develop the knowledge and skills to perform in-car powertrain testing in unique testing environments. Jobs in this area require knowledge of automotive engine and electrical systems and experience with an automotive dynamometer. Students will learn about dynamometer setup and testing including the operation of complex analytical test equipment and test software.

Course Requirements

First Semester

Class	Title	Minimum Credits
ABR 114	Applied Auto Body Welding	2
ASV 130	Automotive Maintenance	4
ASV 131	Automotive Electrical	4
Elective	Writing Elective(s)	3
Elective	Nat. Sci. Elective(s)	3
Total		16

Second Semester

Class	Title	Minimum Credits
ABR 140	Aluminum Welding for Automotive Applications	4
ASV 132	Automotive Engines	4
ASV 256	Electrical and Electronic Systems	4
Elective	Math Elective(s)	4
Total		16

Third Semester

Class	Title	Minimum Credits
ASV 277	Automotive Powertrain Systems	4
MST 230	Advanced Motorcycle Fabrication	3
Elective	Restricted Electives: ABR 111, ASV 135, ASV 174, ASV 257, ASV 266, ASV 274, CSS 200, CSS 205, CST 185, MST 110	2
Elective	Speech/Comp. Elective(s)	3
Elective	Arts/Human. Elective(s)	3
Total		15

Fourth Semester

Class	Title	Minimum Credits
ASV 279	Automotive Dynamometer and Test	4
MST 220	Dynamometer Operations	4
Elective	Restricted Electives: ABR 111, ASV 135, ASV 174, ASV 257, ASV 266, ASV 274, CSS 200, CSS 205, CST 185, MST 110	4
Elective	Soc. Sci. Elective(s)	3
Total		15

Total Credits Required: 62

Footnotes

Students may elect to take optional courses in Semester 5 to meet MTA. Please refer to the WCC MTA Transfer Agreement web page <https://www.wccnet.edu/learn/transfer-wcc-credits/mta.php> for more information.

Accurate as of 12/02/2022 Information is subject to change without notice.