

<b>Department: Automotive</b>	
<b>Degree or Certificate: AAS</b>	
<b>Program Curriculum Map: Automotive Service Technician</b>	
<b>Program Outcome (PO) 1:</b>	Students will be able to diagnose and demonstrate competencies, through simulations and case studies common failures of modern automotive systems, including hybrid and electric technologies.
<b>Program Outcome (PO) 2:</b>	Students will be able to explain the theory and operations of all modern automotive systems, including hybrid and electric technologies.
<b>Program Outcome (PO) 3:</b>	Students will synthesize their experience in the technical repair as well as in the management roles needed to successfully operate an automotive repair facility.
<b>Program Outcome (PO) 4:</b>	Students will identify sources of information on automotive repair, equipment, and procedures.
<b>Program Outcome (PO) 5:</b>	Students will demonstrate mastery of concepts in all eight areas as tested by the State of Michigan Bureau of Automotive Regulation.

**Core Technical Classes**

Course		PO 1	PO 2	PO 3	PO 4	PO 5
Automotive Service Basics	AT 100	Introduce	Introduce	Introduce	Introduce	Introduce
Automotive Brake Systems	AT 110	Reinforce	Reinforce	Reinforce	Reinforce	Reforce
Automotive Electrical I	AT 120	Access	Reinforce	Reinforce	Reinforce	Access
Automotive Electrical II	AT 220	Access	Reinforce	Reinforce	Reinforce	Access
Engine Performance I	AT 130	Reinforce	Reinforce	Reinforce	Reinforce	Reforce
Suspension & Steering	AT 230	Access	Reinforce	Reinforce	Reinforce	Access
Automatic Transmissions	AT 140	Access	Reinforce	Reinforce	Reinforce	Access
Engine Repair	AT 150	Access	Reinforce	Reinforce	Reinforce	Access
Heating and Air Conditioning	AT 160	Access	Reinforce	Reinforce	Reinforce	Access
Manual Drivetrain and Axles	AT 170	Access	Reinforce	Reinforce	Reinforce	Access
Service Department Management	AT 180	Reinforce	Access	Access	Access	Reinforce
Hybrid Technology	AT 210	Reinforce	Reinforce	Reinforce	Reinforce	Reinforce
Engine Performance II	AT 230	Access	Reinforce	Reinforce	Reinforce	Access

**External Certification Source**

State of Michigan: [http://www.michigan.gov/documents/sos/mechstudykit\\_208010\\_7.pdf](http://www.michigan.gov/documents/sos/mechstudykit_208010_7.pdf)