

Automotive and Light Duty Diesel Technology

Winona Campus

OVERVIEW

Now more than ever, it's important to get a top-notch education that will get you into the workforce and earning a living quickly. That's why Minnesota State College Southeast's Automotive and Light Duty Diesel Technology program in Winona will get you through the classes you need for a 54-credit diploma in just one year!

Automotive and Light Duty Diesel Technology runs for Fall and Spring semesters and one Summer session. The program is packed with everything you'll need to know to find employment in this high-paying, high-demand career area. Start with the basics: Shop safety, use of service manuals, preventative maintenance, and the use of automotive tools and equipment. You will progress quickly to in-depth, hands-on knowledge of:

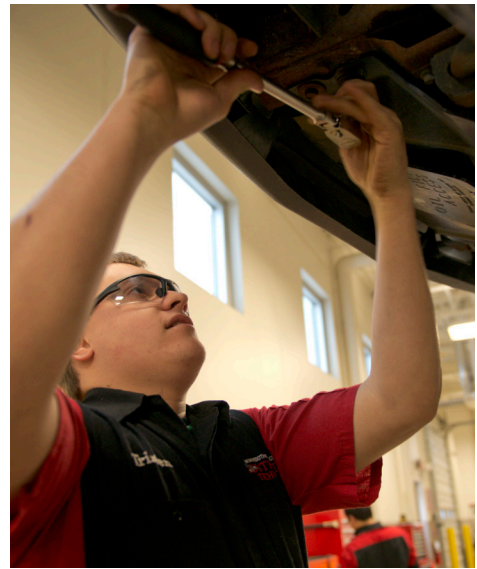
- Starting and charging systems
- Gas and diesel engine repair
- Drive trains and axles
- Suspension and steering
- Brake systems
- Heating and air conditioning
- Light duty diesel and hybrid service
- DC Electricity, electric/electronic systems
- Computer controlled systems
- And more!

The course load in Automotive and Light Duty Diesel Technology is flexible enough to allow part-time employment while going to college. And if you have a job in the field, you may be able to coordinate with your employer and the faculty to receive lab credit for hours worked in industry.

MAJORS WITHIN

Automotive and Light Duty Diesel Technology	Diploma	54 credits
Automotive Technology Foundations	Certificate	9 credits
Undercar Specialist	Certificate	15 credits

See back for program plans



PROGRAM HIGHLIGHTS

State-of-the-art lab in the Norris P. Abts Transportation Center operates as a live shop

Students work on customer vehicles, get real hands-on experience

Emphasis on diesel, hybrid, and automotive technologies and computer controlled systems

Possible to receive laboratory credit for hours worked in industry

Text and curriculum designed around Automotive Service Excellence (ASE) Certification

CAREER OPPORTUNITIES

Certified Technicians
 Service Managers
 Service Writers
 Vehicle Inspectors
 Shop Owners
 Specialists
 Insurance Adjusters
 Instructors

JOB PLACEMENT

Nearly 100%

PROGRAM COSTS - includes tuition, books and supplies

Automotive and Light Duty Diesel Technology	\$13,072
Automotive Foundations	\$2,725
Undercar Specialist	\$3,557

www.southeastmn.edu

Automotive and Light Duty Diesel Technology Sample Program Plan

Automotive and Light Duty Diesel Technology - AAS

Course No.	Course Name	Credits
First Semester (Fall)		
AUTO1105	General Auto Service Theory	1
AUTO1106	General Auto Service Lab	2
AUTO1115	Brake Systems Lab	3
AUTO1204	Suspension & Steering Theory	2
AUTO1205	Brake Systems Theory	2
AUTO1114	Suspension & Steering Lab	3
AUTO1210	Introduction to DC Electricity	2
AUTO1216	Auto Electric/Electronic Systems	2
AUTO1126	Auto Electrical/Electronic Lab	2
Semester total		19
Second Semester (Spring)		
AUTO1113	Drive Train and Axle Lab	4
AUTO1203	Drive Train and Axle Theory	2
AUTO1108	Introduction to Light Duty Diesel and Hybrid Service	2
AUTO1118	Auto Engine Performance Lab	3
AUTO1208	Engine Performance Theory	2
AUTO1236	Starting and Charging Systems	2
AUTO1202	Auto Trans/Transaxle Theory	2
AUTO1112	Auto Trans/Transaxle Lab	3
Semester total		20
Third Semester (Summer)		
AUTO1201	Gas and Diesel Engine Repair Theory	1
AUTO1111	Gas and Diesel Engine Repair Lab	4
AUTO1138	Engine and Diesel Performance Lab	3
AUTO1228	Engine and Diesel Performance Theory	2
AUTO1207	Auto Heating & Air Conditioning Theory	2
AUTO1117	Auto Heating & Air Conditioning Lab	2
AUTO1148	Vehicle Driveability	1
Semester total		15
Total Required Credits		54

Automotive Technology Foundations - Certificate

Course No.	Course Name	Credits
First Semester (Fall)		
AUTO1105	General Auto Service Theory	1
AUTO1106	General Auto Service Lab	2
AUTO1108	Introduction to Light Duty Diesel and Hybrid Service	2
AUTO1210	Introduction to DC Electricity	2
AUTO1236	Starting and Charging Systems	2
Total Required Credits		9

Undercar Specialist - Certificate

Course No.	Course Name	Credits
First Semester (Fall)		
AUTO1105	General Auto Service Theory	1
AUTO1106	General Auto Service Lab	2
AUTO1108	Introduction to Light Duty Diesel and Hybrid Service	2
AUTO1114	Suspension & Steering Lab	3
AUTO1115	Brake Systems Lab	3
AUTO1204	Suspension & Steering Theory	2
AUTO1205	Brake Systems Theory 2	2
Total Required Credits		15

PROGRAM OUTCOMES

Program graduates will be able to:

1. Demonstrate safety practices and policies in an environmentally safe and compatible environment.
2. Demonstrate the ability to diagnose related vehicle repairs using problem solving techniques.
3. Demonstrate the ability to operate electrical diagnostic equipment.
4. Demonstrate automotive repairs.
6. Develop a plan for a career path in the automotive technology trade.