

TRANSPORTATION

HEAVY DUTY TRUCK TECHNOLOGY

* All students applying for the transportation programs are **REQUIRED** to attend a Tuesday Campus Visit

Delivery: Daytime Classes
 Start: Fall & Spring Semester, Full-Time
 Location: Rosemount Campus

Outcomes

Heavy Duty Truck Technology A.A.S. Degree 72 cr.
 Heavy Duty Truck Technology Diploma 64 cr.
 Truck Fleet Maintenance Certificate 29 cr.

Major Description

Students learn all aspects of heavy-duty truck repair and maintenance. The program focuses on large trucks, typically class 7 and 8. Areas of instruction include electrical and electronic systems, steering/alignment, foundation brakes, air brakes and anti-lock brake systems. Students perform diesel engine troubleshooting, overhauls and tune-ups on both mechanical and electronic engines. Clutch, transmission, drive axle repair and overhaul are taught along with welding instruction, preventive maintenance, and HVAC. Students will be given the opportunity to obtain a commercial drivers license (CDL) and become a state of MN certified commercial vehicle inspector.

This program is accredited by the National Automotive Technicians Education Foundation (NATEF). Programs must undergo extensive evaluation and site visits by NATEF to receive and retain program accreditation.

Work Environment

Technicians generally work a standard 40-hour week in well-lighted and well-ventilated shops. Truck fleet companies, dealerships and truck repair shops are major employers.

Potential Job Titles

- Diesel Mechanic
- Diesel Technician
- Fleet Mechanic
- Heavy Duty Mechanic
- Truck Engine Technician
- Transportation Mechanic

Salary Data

- Average Wage: \$22.68/hour
- Top Earners: \$27.20/hour

HEAVY DUTY TRUCK TECHNOLOGY - A.A.S. DEGREE

*This is a sample course sequence.
 Please contact your program advisor regarding your academic plans.*

First Year - First Semester

HDTT1100	Truck Technology Fundamentals	4
HDTT1106	Welding Procedures	2
HDTT1212	Preventive Maintenance	4
HDTT1218	Electrical Systems	4
ENGL1200	Technical Writing or	3
ENGL1150	Composition I	3
Total Credits		17

First Year - Second Semester

HDTT1103	Air Brake Systems	6
HDTT1109	Fluid Power Systems	2
HDTT1215	Suspensions and Steering Systems	4
HDTT1223	Truck A/C	3
PHIL1200	Critical Thinking	3
SPEE1020	Interpersonal Communication	3
Total Credits		21

Second Year - First Semester

HDTT2101	Drive Train I	6
HDTT2104	Drive Train II	4
HDTT2107	Diesel Fundamentals	3
HDTT2110	Diesel Fuel Systems	1
BIOL1110	Environmental Science	3
Total Credits		17

Second Year - Second Semester

HDTT2213	Diesel Engine Fundamentals	4
HDTT2216	Diesel Electronics	3
HDTT2230	Heavy Truck Industry Training	2
HDTT2970	Internship	5
HIST1450	History of Minnesota	3
Total Credits		17

TOTAL PROGRAM REQUIREMENTS 72

HEAVY DUTY TRUCK TECHNOLOGY - DIPLOMA

This is a sample course sequence.

Please contact your program advisor regarding your academic plans.

First Year - First Semester

HDTT1100	Truck Technology Fundamentals	4
HDTT1106	Welding Procedures	2
HDTT1212	Preventive Maintenance	4
HDTT1218	Electrical Systems	4
ENGL1200	Technical Writing or	3
ENGL1150	Composition I	
Total Credits		17

First Year - Second Semester

HDTT1103	Air Brake Systems	6
HDTT1109	Fluid Power Systems	2
HDTT1215	Suspensions and Steering Systems	4
HDTT1223	Truck A/C	3
SPEE1020	Interpersonal Communication	3
Total Credits		18

Second Year - First Semester

HDTT2101	Drive Train I	6
HDTT2104	Drive Train II	4
HDTT2107	Diesel Fundamentals	3
HDTT2110	Diesel Fuel Systems	1
BIOL1110	Environmental Science	3
Total Credits		17

Second Year - Second Semester

HDTT2213	Diesel Engine Fundamentals	4
HDTT2216	Diesel Electronics	3
HDTT2970	Internship	5
Total Credits		12

TOTAL PROGRAM REQUIREMENTS 64

TRUCK FLEET MAINTENANCE - CERTIFICATE

This is a sample course sequence.

Please contact your program advisor regarding your academic plans.

First Year - First Semester

HDTT1100	Truck Technology Fundamentals	4
HDTT1106	Welding Procedures	2
HDTT1212	Preventive Maintenance	4
HDTT1218	Electrical Systems	4
Total Credits		14

First Year - Second Semester

HDTT1103	Air Brake Systems	6
HDTT1109	Fluid Power Systems	2
HDTT1215	Suspensions and Steering Systems	4
HDTT1223	Truck A/C	3
Total Credits		15

TOTAL PROGRAM REQUIREMENTS 29



DAKOTA COUNTY
TECHNICAL COLLEGE

2018-2019 CATALOG

Real Education. Real Results.