

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

AWARDS

Heavy Duty Truck Technology A.A.S. Degree	78 cr.
Heavy Duty Truck Technology Diploma	70 cr.
Truck Fleet Maintenance Certificate	27 cr.

MAJOR DESCRIPTION

Students learn all aspects of heavy-duty truck repair and maintenance. The program focuses on class 7 and 8. Areas of instruction include electrical and electronic systems, emissions, steering/alignment, foundation brakes, air brakes and anti-lock brake systems. Students perform diesel engine troubleshooting, overhauls and tune-ups on 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 become a state of MN certified commercial vehicle inspector.

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

See latest data at careerwise.minnstate.edu.

- Average Wage: \$27.16/hour
- Top Earners: \$37.18/hour

ACCREDITATION

This program is accredited by the ASE Education Foundation.

HEAVY DUTY TRUCK TECHNOLOGY A.A.S. DEGREE

This is a suggested sample course sequence.

Please contact your program advisor regarding your academic plans.

First Year - Fall Semester 19 cr

ENGL1200	Technical Writing or	
ENGL1150	Composition I	3
HDTT1100	Truck Technology Fundamentals	4
HDTT1106	Welding Procedures	2
HDTT1212	Preventive Maintenance	4
HDTT1217	Electrical Systems I	3
HDTT1219	Electrical Systems II	3

First Year - Spring Semester 22 cr

HDTT1102	Air Brake Systems	5
HDTT1104	Air Brake Electronics	2
HDTT1109	Fluid Power Systems	2
HDTT1215	Suspensions and Steering Systems	4
HDTT1223	Truck A/C	3
SPEE1020	Interpersonal Communication	3
	General Elective (any MnTC area)	
	<i>PHIL1200 recommended</i>	3

Second Year - Fall Semester 19 cr

HDTT2101	Drive Train I	6
HDTT2104	Drive Train II	4
HDTT2105	Drive Train III	2
HDTT2107	Diesel Fundamentals	3
HDTT2110	Diesel Fuel Systems	1
	General Elective (MnTC Goal 3)	
	<i>BIOL1110 recommended</i>	3

Second Year - Spring Semester 18 cr

HDTT2213	Diesel Engine Fundamentals	4
HDTT2216	Diesel Electronics	3
HDTT2228	D.O.T. Certification	1
HDTT2230	Heavy Truck Industry Training*	2
HDTT2970	Internship	5
	General Elective (any MnTC area)	
	<i>HIST1450 recommended</i>	3

TOTAL PROGRAM REQUIREMENTS 78

**This course is only offered online*

HEAVY DUTY TRUCK TECHNOLOGY DIPLOMA

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

First Year - Fall Semester 19 cr

ENGL1200	Technical Writing or	
ENGL1150	Composition I	3
HDTT1100	Truck Technology Fundamentals	4
HDTT1106	Welding Procedures	2
HDTT1212	Preventive Maintenance	4
HDTT1217	Electrical Systems I	3
HDTT1219	Electrical Systems II	3

First Year - Spring Semester 19 cr

HDTT1102	Air Brake Systems	5
HDTT1104	Air Brake Electronics	2
HDTT1109	Fluid Power Systems	2
HDTT1215	Suspensions and Steering Systems	4
HDTT1223	Truck A/C	3
SPEE1020	Interpersonal Communication	3

Second Year - Fall Semester 19 cr

HDTT2101	Drive Train I	6
HDTT2104	Drive Train II	4
HDTT2105	Drive Train III	2
HDTT2107	Diesel Fundamentals	3
HDTT2110	Diesel Fuel Systems	1
	General Elective (any MnTC area) <i>BIOL1110 recommended</i>	3

Second Year - Spring Semester 13 cr

HDTT2213	Diesel Engine Fundamentals	4
HDTT2216	Diesel Electronics	3
HDTT2228	D.O.T. Certification	1
HDTT2970	Internship	5

TOTAL PROGRAM REQUIREMENTS 70

TRUCK FLEET MAINTENANCE CERTIFICATE

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First Year - Fall Semester 13 cr

HDTT1100	Truck Technology Fundamentals	4
HDTT1106	Welding Procedures	2
HDTT1212	Preventive Maintenance	4
HDTT1217	Electrical Systems I	3

First Year - Spring Semester 14 cr

HDTT1102	Air Brake Systems	5
HDTT1109	Fluid Power Systems	2
HDTT1215	Suspensions and Steering Systems	4
HDTT1223	Truck A/C	3

TOTAL PROGRAM REQUIREMENTS 27



DAKOTA COUNTY
TECHNICAL COLLEGE

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This information is available in an alternate format by calling 651-423-8469 or TTY/Minnesota Relay at 1-800-627-3529.