

# 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	29 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 obtain a commercial drivers license (CDL) and 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](http://careerwise.minnstate.edu).

- Average Wage: \$26.64/hour
- Top Earners: \$36.39/hour

### ACCREDITATION

This program is accredited by the ASE Education Foundation.

### 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 19 cr

ENGL1200	Technical Writing <b>or</b>	
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 - Second 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 - First 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 - Second 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**

## HEAVY DUTY TRUCK TECHNOLOGY DIPLOMA

*This is a sample course sequence.  
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### First Year - First Semester 19 cr

ENGL1200	Technical Writing <b>or</b>	
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 - Second 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 - First 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 - Second 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 - First Semester 14 cr

HDTT1100	Truck Technology Fundamentals.....	4
HDTT1106	Welding Procedures.....	2
HDTT1212	Preventive Maintenance.....	4
HDTT1218	Electrical Systems.....	4

### First Year - Second Semester 15 cr

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

**TOTAL PROGRAM REQUIREMENTS 29**



**DAKOTA COUNTY**  
**TECHNICAL COLLEGE**

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