

HEAVY DIESEL CONSTRUCTION TECHNOLOGY

Please note that this program is not being offered in 2024-2025.

The Heavy Diesel Construction program prepares individuals to apply technical knowledge and skills to the general maintenance, repair, and overhaul of heavy construction equipment, along with the academic skills to be a valuable employee. Instruction includes foundational courses in theory and hands-on skills practice in safety standards, power trains, diesel engines, and welding.

Specialized courses for diesel construction include instruction in inspection, maintenance, and repair of tracks, wheels, brakes, operating controls, pneumatic and hydraulic systems, electrical circuitry, engines and techniques of welding and brazing. Machines and equipment in the lab include Case wheel loader, loader backhoe, and skid steers. Tier 4 and 3 Fiat engines plus engine cut-aways are provided for skills practice with tear-down, operations and diagnostics. Students are given the option to serve an internship with area dealers and may qualify for company sponsorship for their second term. This program will offer students preparation to test for the industry-recognized credentials listed below.

Program Information

- Required Math Score: Level 4
- Required Reading Score: Level 4
- Program Start (semesters): August; January
- Financial Aid available (for post-secondary students only): Yes
- Veteran Benefits Eligible (for post-secondary students only): Yes
- Industry-recognized credentials: ASE Brakes; ASE Diesel Engines; ASE Electrical/Electronic Systems; ASE Suspension & Steering; OSHA

Certificate Requirements

Code	Title	Hours
IND 105	OSHA - 10 Hr Gen Industry Cert	1
DEM 111	Shop Skills & Safety Fundament	1
DEM 113	Electrical/Electronic Systems	5
DEM 116	Workplace Skills	1
DEM 123	Hydraulics	5
DEM 142	Welding for Diesel	3
DEM 144	Brakes for Construction	2
DEM 150	EST Diagnostics	1
DEM 204	Advanced Machine Electrical	4
DEM 221	Drive Trains	3
DEM 224	Advanced Hydraulic Systems	3
DEM 231	Diesel Engines I	5
DEM 241	Advanced Diesel Engines	5
DEM 244	Heavy Equipment Operation	2
DEM 250	Engine Performance	2
DEM 252	Power Trains for Construction	3
DEM 268	Aux Power Units/Refrigeration	2
DEM 274	Diesel Preventative Maintenanc	3
Total Hours		51