

Diesel Technology Certificate

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NOTICE(s): For the certificate in Diesel Mechanics, the student must complete a minimum of 59 credit hours—53 in technical courses and a minimum of 6 hours in general education courses—all of which must be approved by the advisor. Required courses may vary to provide options and to meet student needs. Courses will be selected from those listed below. Admission Requirement: The student must be 17 or older.

The courses in this program of study may not be offered every semester. It is important to consult with your advisor to determine course schedules to stay on track to graduate.

Federal Pell Grant is awarded based on the federal conversion formula for this non-degree certificate program.

This program is offered at the Ayers Campus only.

Area I – Written Composition

Item #	Title	Hours
	ENG 100 or ENG 101	3
	Sub-Total Credits	3

Area III – Natural Sciences and Mathematics

Item #	Title	Hours
	MAH 101 or MTH 100 or DEM 100	3
	Sub-Total Credits	3

Area V - Required Technical Courses

Item #	Title	Hours
DEM 104	Basic Engines	3
DEM 105	Preventive Maintenance	3
DEM 122	Heavy Vehicle Brakes	3
DEM 124	Electronic Engine Systems	3
DEM 125	Heavy Vehicle Drive Trains	3
DEM 130	Electrical/Electronic Fundamentals	3
	ORT 100 or ORI 101	1
WKO 101	Workplace Skills Development I	1
	Sub-Total Credits	20

Additional Coursework

Choose 33 credits from the following courses:

Item #	Title	Hours
DEM 111	Equipment Safety / Mechanical Fundamentals	3
DEM 123	Pneumatics and Hydraulics	3
DEM 127	Fuel Systems	3
DEM 128	Heavy Vehicle Drive Train Lab	3
DEM 129	Diesel Engine Lab	3
DEM 134	Computer Controlled Engine and Power Train Systems	3
DEM 135	Heavy Vehicle Steering and Suspension Systems	3
DEM 136	Trailer Electrical Systems	3
DEM 137	Heating, A/C, and Refrigeration Systems	3
DEM 139	Diesel Emissions and Aftertreatment Systems	3
DEM 145	Electrical Schematics and Symbols	3
DEM 154	Vehicle Maintenance & Safe Operating Practices	3
DEM 180	Special Projects in Commercial Vehicles	3
DEM 181	Special Topics in Electrical	3
DEM 184	Special Topics in Heavy Duty Brakes, Steering, and Suspension	3
DEM 186	Special Projects in Commercial Vehicles	3
DEM 187	Industrial Safety	1
DEM 191	Special Projects in Diesel Mechanics	3
DEM 192	Co-Op Elective	3
DEM 196A	Co-Op Elective	1
DEM 196B	Co-Op Elective	1
DEM 196C	Co-Op Elective	1
DEM 197	Co-Op Elective	2
	DPT 100 or CIS 146	3
	SPC 103 or SPH 106	3
	Sub-Total Credits	66
		59