



DIESEL AND HEAVY EQUIPMENT MECHANICS CERTIFICATE, 59 Hours

Sample Course Schedule*

First Semester			Second Semester		
DEM111	Equipment Safety/Mechanical Fundamentals	3	DEM137	Heating, Air Conditioning, and Refrigeration Systems	3
DEM104	Basic Engines	3	DEM117	Diesel and Gas Tune-up	3
DEM105	Preventative Maintenance	3	DEM135	Heavy Vehicle Steering & Suspension Systems	3
DEM156	CDL License Test Preparation	3	DEM122	Heavy Vehicle Brakes	3
DPT103	Introductory Computer Skills II	3	COM100	Introductory Technical English I	3
ORT111	Orientation	1			
		<u>16</u>			<u>15</u>
Third Semester			Fourth Semester		
DEM123	Pneumatics and Hydraulics	3	DEM126	Advanced Engine Analysis	3
DEM124	Electronic Engine Systems	3	DEM127	Fuel Systems	3
DEM270	CNG/LPG/LNG Safety	1	DEM125	Heavy Vehicle Drive Trains	3
DEM272	CNG/LPG/LNG Fuel Systems	3	DEM130	Electrical/Electronic Fundamentals	3
MAH101	Introductory Mathematics I	3	SPC103	Oral Communication Skills	3
		<u>13</u>			<u>15</u>

*This is a sample course sequence. Courses scheduled each semester may vary according to student progress and the need for developmental classes.

Certificate Requirements

GENERAL EDUCATION COURSES	13 HOURS
ENG101: English Composition I* <u>OR</u> COM100: Introductory Technical English I	3 HOURS
ORT111: Orientation <u>OR</u> ORI101: Orientation*	1 HOUR
CIS146: Microcomputer Applications* <u>OR</u> DPT103: Introductory Computer Skills II	3 HOURS
SPH106: Fundamentals of Oral Communication* <u>OR</u> SPC103: Oral Communication Skills	3 HOURS
MTH100: Intermediate College Algebra <u>OR</u> MTH112: Precalculus Algebra** or higher <u>OR</u> MAH101: Introductory Mathematics I	3 HOURS

PROGRAM MAJOR COURSES	46 HOURS
DEM104: Basic Engines	3 HOURS
DEM105: Preventative Maintenance	3 HOURS
DEM111: Equipment Safety/Mechanical Fundamentals	3 HOURS
DEM117: Diesel and Gas Tune-up	3 HOURS
DEM122: Heavy Vehicle Brakes	3 HOURS
DEM123: Pneumatics and Hydraulics	3 HOURS
DEM124: Electronic Engine Systems	3 HOURS
DEM125: Heavy Vehicle Drive Trains	3 HOURS
DEM126: Advanced Engine Analysis	3 HOURS
DEM127: Fuel Systems	3 HOURS
DEM130: Electrical/Electronic Fundamentals	3 HOURS
DEM135: Heavy Vehicle Steering & Suspension Systems	3 HOURS
DEM137: Heating, Air Conditioning, and Refrigeration Systems	3 HOURS
DEM156: CDL License Test Preparation	3 HOURS
DEM270: CNG/LPG/LNG Safety	1 HOUR
DEM272: CNG/LPG/LNG Fuel Systems	3 HOURS

*High school graduates, including students with a GED, are eligible to take these courses. Students may wish to pursue an associates degree or higher at a later time and should note that courses marked with an asterisk are transferrable.

**MTH100 does not satisfy transfer requirements for mathematics in Area III but will transfer as an elective in Area V.