



2nd Year Program of Studies

4 courses with total of 11 or 12 credit hours

Heavy Equipment Academy

1st Year Program of Studies 5 courses with total of 18 credit hours

Fall Semester		Credit	Fall Semeste	Fall Semester		
DEMR 1401	Shop Safety and Procedures A study of shop safety, rules, basic shop tools, and test equipment.	4	DEMR 1329	Preventative Maintenance Introduction to proper servicing practices. Content includes record keeping and condition of major systems.	3	
DEMR 1406 *10-Hour OSHA *HOLT CAT ProTech Electricity TG01	Diesel Engines An introduction to the basic principles of diesel engines and systems.	4	DEMR 2432	Electronic Controls Advanced skills in diagnostic and programming techniques of electronic control systems.	4	
Fall Semeste	r Total	8	Fall Semeste	r Total	6	
Spring Semester		Credit	Spring Seme	Spring Semester		
DEMR 1405 *10-Hour OSHA *HOLT CAT ProTech Electricity TG01 DEMR 1416	Basic Electrical Systems* A review of applied math models and study of different blueprints, with emphasis on machine blueprints and the application of each. Basic Hydraulics*	4	DEMR 2434 *HOLTCAT ProTech Electronic Troubleshooting DE205	Advanced Diesel Tune-Up and Troubleshooting* Advanced concepts & skills required for tune-up & troubleshooting procedures of diesel engines. Emphasis on the science of diagnostics with a common sense approach.	4	
*HOLT CAT ProTech Hyraulics TM 28	Fundamentals of hydraulics including component and related systems ster Total	-	DEMR 2435	Advanced Hydraulics Advanced study of hydraulic systems & components including diagnostics & testing of hydraulic systems.	4	
Summer Sem	nester	Credit	Ousing Ones	-4 T -4-1		
DEMR 2288	Internship: Diesel Mechanics Technology/Technician Practical, general workplace training supported by an individualized learning plan.	2	Spring Seme Year 2 Progra		15	
Summer Tota	Summer Total 2					
Year 1 Program Total 18						

Level I Certificate of Completion
Diesel Heavy Equipment

Level I Certificate of Completion Advanced Diesel Heavy Equipment

Heavy Equipment Academy

Level I Certificate of Completion Diesel Heavy Equipment

ASSOCIATE OF APPLIED SCIENCES

Diesel Construction Equipment Technician

Semester 1		Credit		
DEMR 1405	Basic Electrical Systems	4		
DEMR 1416	Basic Hydraulics	4		
DEMR 1329	Preventative Maintenance	3		
MATH 1333	Contemporary Mathematics II or other	3		
1st Semester Total				
Semester 2		Credit		
DEMR 1417	Basic Brake Systems	4		
DEMR 1406	Diesel Engine	4		
ITSC 1301	Introduction to Computers	3		
PHYS 1305	Introductory to Physics I Lecture	3		
2nd Semeste	er Total	14		
Semester 3		Credit		
DEMR 2432	Electronic Controls	4		
	Heating, Ventilation, & Air Conditioning	4		
DEMR 2435 ENGL 1301	Advanced Hydraulics	4		
ENGL 1301	Composition I	3		
	Select Social & Behavioral Sciences (80) Core	3		
3rd Semester Total				
Semester 4		Credit		
DEMR 2434	Advanced Diesel Tune-Up & Troubleshootin	9 4		
HEMR 1401	Tracks & Undercarriages	4		
DEMR 2366	Practicum: Diesel Mechanics Technology Technician	3		
	Select Language, Philosophy & Culture (40) Core or other*	3		
4th Semester Total				
Program Total				

DC/AA: 27	Total AAS Hours: 60
Hours needed Post DC/AA: 33	General Academics: 15
	Specific Hours: 15