

Engine Specialist

Certificate- 30 credit hours

Purpose: The Engine Specialist program prepares the students for employment in the engine servicing industry. Instruction covers diesel and gasoline engine theory and techniques of disassembly, inspection, reassembly, and troubleshooting. Technicians use shop manuals, reference charts, diagnostic instruments, and special tools to diagnose equipment malfunctions. Career preparation requires a solid technical background in the areas of engine overhaul, electrical and electronic systems, and fuel systems.

Career Opportunities: Graduates of this program may find employment as technicians with automotive service facilities, construction companies, logging companies, farm machinery dealers, heavy equipment dealers, marine engine companies, and farm operators. With experience, graduates may advance to shop supervisor, service manager, resident field service technician, master mechanic, technical representative, or sales representative. Some may become owners of service facilities.

Program Educational Outcomes: Upon completion of the certificate curriculum in the Engine Specialist certificate program, the graduate is prepared to:

1. Understand and apply diesel and gasoline engine theory and techniques of disassembly, inspection, reassembly, and troubleshooting.
2. Use shop manuals, reference charts, diagnostic instruments, and special tools to diagnose equipment malfunctions.
3. Understand and apply knowledge required for repair and maintenance of engine overhaul, electrical and electronic systems, and fuel systems.
4. Qualify for employment as technicians with automotive service facilities, construction companies, logging companies, farm machinery dealers, heavy equipment dealers, marine engine companies, and farm operators.

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Course #	Course Title	Credits
Semester 1		
ENG101	College Composition	3
FYE100	First Year Experience	1
MET103	Principles of Vehicular Electronics	2
MET129	Introduction to Engine Overhaul	3
MET131	Engine Overhaul Lab	4
MET132	Diesel Engine Fuel Systems	1
WEL109	Introductory Welding	2
	Total	16
Semester 2		
MAT106	College Mathematics for Technologies	3
MET108	Principles of Vehicular Performance	2
MET142	High Performance Engine	1
MET144	Engine Repair and Performance	3
MET145	Advanced Engine Repair Lab	5
	Total	14