AUTOMOTIVE TECHNOLOGY—HEAVY DUTY DIESEL TECHNOLOGY—ASSOCIATE OF SCIENCE DEGREE

PROGRAM DESCRIPTION

The Automotive Technology, and Heavy Duty Diesel Technology—Transportation program is designed to provide students with the skills and knowledge necessary to succeed as technicians in the automotive service and heavy duty diesel transportation industries. The curriculum provides hands-on learning experience, which provides students with the opportunity to apply the basic theories of automotive and diesel transportation technology. Diagnosis and repair procedures performed on automotive and diesel equipment enables students to develop the skill levels required for placement in the automotive or heavy duty diesel technology industry (for example, servicing and maintaining diesel powered highway trucks, off-road heavy equipment, and stationary engines.) A long-sleeve work shirt, safety glasses, pants, and work boots are required dress in all AUT classes for safety reasons.

This certificate option is for students who want technical knowledge and experience in the diesel technology field. The course work emphasizes diesel service management, as well as the theory and skills of refrigeration, electronic and mechanical fuel injection, chassis maintenance, vehicle inspection, tune-up, engine overhaul, transmission repair, brake service, and handling hazardous waste. The curriculum provides exposure to all facets of the industry with specific emphasis on problem solving and transferability of skills. A long-sleeve work shirt, pants, and work boots are required dress in all AUT for safety reasons.

As a result of ongoing changes in technology, the need to expand competencies, and changing certification or transfer requirements, certificate and degree requirements may also change. If you note changes in degrees or certificate requirements, or if courses are not offered in a particular semester, please consult with a counselor or faculty on how best to complete the program in which you are enrolled.

PROGRAM OUTCOMES:

Upon successful completion of Heavy Duty Diesel Technology program, a student should be able to:

- demonstrate skills and knowledge to inspect and repair all major systems found in current heavy duty diesel equipment.
- complete accurate work orders of heavy duty diesel equipment repairs related to service history, analysis of problems and description of correct repairs.
- research applicable vehicle and service information using heavy duty equipment manuals, pertinent websites, and diagnostic equipment to identify, analyze, and to correct problems of all major heavy duty equipment systems.