Heavy Equipment Technology

Official Program Checksheet

Why Choose Heavy Equipment Technology?

Heavy equipment technicians keep diesel and gasoline-powered equipment moving freight, earth and people; pumping water for irrigation; drilling for oil; powering farm tractors; and generating electrical power. They not only diagnose malfunctions and repair engines, they repair and service fuel injection systems, electrical and electronic systems, hydraulic systems, brakes, steering systems and power transmission systems.

Students in the Heavy Equipment Technology program learn to use shop manuals, reference charts, diagnostic instruments and special tools to diagnose equipment malfunctions. They identify problems through measurement and observation, interpret data collected and decide on a course of action. In hands-on labs, students repair, replace or adjust components and perform preventive maintenance tasks. Knowledge and skill-development concentrations include inspection, diagnostics, repair/rebuild of all types of heavy-duty equipment and mechanical and electronic components.

Career Opportunities

Increased use of heavy equipment in the agriculture, trucking, construction and auxiliary power industries has created a widespread need for qualified heavy equipment technicians. Estimates suggest less than half of the current demand for technicians in this industry is being met, so skilled graduates are already in high demand.

Fleet maintenance, farm equipment, truck rental and construction equipment repair industries as well as independent repair shops are only some of the employers. Heavy equipment technicians also work at stationary power plants, marine engine companies and manufacturers of heavy equipment.

Graduates of the Heavy Equipment Technology program at Ferris are immediately employable by the heavy equipment industry. This program also serves as the major preparatory program for the B.S. degree in Heavy Equipment Service Engineering Technology.

General Education Requirements

All University General Education requirements can be found here: http://www.ferris.edu/HTMLS/academics/general-education/requirements/AAS.htm

Please consult this link for a complete listing of General Education Electives: http://www.ferris.edu/HTMLS/academics/general-education/courses/index.htm
Consult the official checksheet or program advisor for program specific General Education requirements.

**Graduation Requirements**

The Heavy Equipment Technology program at Ferris leads to an associate in applied science degree. Graduation requires a minimum cumulative GPA of 2.0. Students must complete all general education requirements as outlined on the General Education website.

**More Information**

Heavy Equipment Technology Program  
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The College of Engineering Technology, Heavy Equipment Technology, AAS program is accredited by the National Automotive Technicians Education Foundation (NATEF)  
http://www.natef.org/  
The next accreditation review is scheduled for 2020.