



Heavy Equipment Repair Technician C.A.

Career Community: Transportation

Curriculum Code: 1041

Effective: Fall 2024 – Summer 2029

Description

A heavy equipment repair technician is responsible for the efficient, timely, and proper repair on a variety of heavy-duty construction and road equipment. The technician must be knowledgeable in the repair of all systems used in heavy equipment. The technician must be able to diagnose problems, plan repairs including required labor and parts, and then complete the repair with consideration to safety, MIOSHA, and environmental factors. A repair technician must be able to work with a minimum of supervision as repairs may be made off-site. Attention to detail and a sense of responsibility are required. Students completing this certificate may use the credits toward the Heavy Equipment Repair Technician Associate of Applied Science Degree (1055).

Milestone

Completion of HERT 120, HERT 125, and HERT 130 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

All Heavy Equipment Repair (HERT) courses are taught at AIS Construction, 3600 N. Grand River Ave. in Lansing. In addition, one of the courses may be taught by the AIS Construction staff.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Heavy Equipment Repair Program at the West Campus Building, Room M103, telephone number 517-267-6406.

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
HERT 110	Equipment Introduction	5 / 5
HERT 120	Heavy Engine Rebuild	6 / 6
HERT 125	Heavy Equipment Electronics	5 / 5
HERT 130	Equipment Hydraulics	6 / 6
HERT 135	Diesel Fuel Systems	4 / 4
HERT 140	Equipment Powertrain	5 / 5
HERT 145	Equipment Service Writing	4 / 4

Course Code	Course Title	Credit/ Billing Hours
HERT 160	Equipment HVAC/Cab Controls	4 / 6
TECH 102	General Industry Safety	2 / 3

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

41 credits / 44 billing hours

Recommended Course Sequence

Semester I (Fall)
HERT 110
HERT 120 – Milestone course
HERT 130 – Milestone course
TECH 102

Semester II (Spring)
HERT 125 – Milestone course
HERT 140
HERT 160

Semester III (Summer)
HERT 135
HERT 145

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.