



Heavy Equipment Repair Technician C.A.

Curriculum Code: 1041

Effective: Fall 2021 – Summer 2026

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 in Applied Science Degree (1055).

Additional Information

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

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
AUTM 161	Auto Heating/Air Conditioning	4 / 6
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 System	4 / 4
HERT 140	Equipment Powertrain	5 / 5
HERT 145	Equipment Service Writing	4 / 4
WELD 102	Industrial/Construction Safety	2 / 3

Total Credit Hours

41 credits / 44 billing hours

Recommended Course Sequence

Semester I (Fall)	Semester II (Spring)
HERT 110 HERT 120 HERT 130 WELD 102	AUTM 161 HERT 125 HERT 140

Semester III (Summer)
HERT 135 HERT 145