

LANSING COMMUNITY COLLEGE

Computer, Engineering/Manufacturing Industrial Technologies

**Curriculum Code: 1041
(Effective Fall 2018 –
Summer 2023)**

Heavy Equipment Repair Technician C.A. Pathway

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).

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.

For More Information

Contact the Heavy Equipment Repair Program at the West Campus Building, Room M103, telephone number (517) 267-6406.

Semester I Fall	Course Title	Prerequisites	Credit/Billing Hours
----------------------------	---------------------	----------------------	-----------------------------

Program of Study Requirements

HERT 110	Equipment Introduction	None	5 / 5
HERT 120	Heavy Engine Rebuild	None	6 / 6
HERT 130	Equipment Hydraulics	None	6 / 6
WELD 102	Industrial/Construction Safety	Reading Level 3 and Writing Level 2	2 / 3

Credits 19 / 20

Semester II Spring	Course Title	Prerequisites	Credit/Billing Hours
-------------------------------	---------------------	----------------------	-----------------------------

Program of Study Requirements

AUTM 161	Auto Heating/Air Conditioning	Minimum 2.0 in ((AUTM 111 or concurrently) or (HERT 125 or concurrently) or AUTM 110) and (Reading Level 3 or ENGL 098 concurrently) and Writing Level 2 and (Math Level 3 or minimum 2.0 in MATH 105 or MATH 106)	4 / 6
----------	-------------------------------	--	-------

HERT 125	Heavy Equipment Electronics	None	5 / 5
----------	-----------------------------	------	-------

HERT 140	Equipment Powertrain	None	5 / 5
----------	----------------------	------	-------

Credits 14 / 16

Semester III Summer	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
HERT 135	Diesel Fuel System	None	4 / 4
HERT 145	Equipment Service Writing	None	4 / 4
Credits			8 / 8
Total Credits			41 / 44