

# LANSING COMMUNITY COLLEGE

## CURRICULUM GUIDE

### Heavy Equipment Repair Technician Certificate of Achievement

Curriculum Code: 1041 (Effective Fall 2016 – Summer 2021)

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.

#### PREREQUISITES

Students should see [Course Descriptions](#) for course prerequisite information. See [Academic Assessment and Placement Testing for Student Success](#) for skills assessment and advising information.

#### INFORMATION

Contact the Heavy Equipment Repair Program, West Campus Building, Room M103, telephone number (517) 267-6406 (Website: [www.lcc.edu/transportation/heavy equip\\_repair/](http://www.lcc.edu/transportation/heavy equip_repair/)).

#### REQUIREMENTS

**TOTAL: 41 CREDITS**

CODE	TITLE	CREDIT HOURS
HERT 110	Equipment Introduction	5
HERT 120	Heavy Engine Rebuild	6
HERT 125	Heavy Equipment Electronics	5
HERT 130	Equipment Hydraulics	6
HERT 135	Diesel Fuel System	4
HERT 140	Equipment Powertrain	5
HERT 145	Equipment Service Wiring	4
WELD 102	Industrial/Construction Safety (See Note 1)	2
WELD 103	Combination Welding	4
<b>MINIMUM TOTAL</b>		<b>41</b>

**NOTES:**

1. Students who have already completed DCTM 102, ELTE 102, HVAC 102 or METS 102 with a grade of 2.0 or higher may substitute one of these courses for WELD 102.
2. To receive a certificate of achievement from Lansing Community College, a student must maintain a grade point average of 2.0 or above in the courses required for the certificate.

**SUGGESTED COURSE SEQUENCE**

This program is presented in a lockstep format. It is therefore essential that prospective students consult with a Transportation Maintenance Technologies Program advisor to plan their course sequence so that they may complete their education and training in a timely manner.

<b>I</b>	<b>II</b>	<b>III</b>
HERT 110	HERT 125	HERT 135
HERT 120	HERT 140	HERT 145
HERT 130	WELD 103	
WELD 102		