



Heavy Equipment Repair Technician C.A.

Career Community: Transportation

Curriculum Code: 1041

Effective: Fall 2025 – Summer 2030

Purpose of the Major

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, MIOASHA, 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.

Major 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 titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.