

# HEAVY EQUIPMENT REPAIR



Learn skills for your lifetime! Classroom and hands on repair of construction and farm equipment. This is a unique opportunity for you to be trained at AIS Construction Company, a state-wide heavy equipment dealer. Tasks and skills learned will include: operating a diesel engine, disassembling and reassembling an engine to running condition; basic electricity; fundamentals of hydraulics including tearing down and assembling hydraulic components and cylinders; heavy equipment power trains; disassembling and reassembling transmissions and axle assemblies; applying all course content to the latest technology coming in from construction and farm equipment manufacturers. Part One of a two-year program. If college level work is attained, student may earn up to 8 articulated LCC credits after two years.

**Program Location:**

*AIS Construction Equipment Company  
(shuttle available from LCC West)*

**Session Offered:** AM/PM

**Average Lecture Days/Week:** 2-3 days

**Average Lab Days/Week:** 2-3 days

**Homework:** Weekly

**Required reading:**  
*Workbooks*

**LCC Credits Available:** 8 articulated  
*credits after two years  
(If college level work is attained)*

**Student learning outcomes include but are not limited to:**

- Basic shop principles
- Diesel engines
- Basic electrical
- Equipment powertrain
- Basic equipment hydraulics
- Welding

## HIGH SCHOOL/COLLEGE CREDIT

The primary focus of the Eaton Intermediate School District Career Preparation Center is to enhance a student's high school curriculum by providing an opportunity to learn a technical trade and/or to obtain a head start on a post-secondary education.

All students completing an Eaton Intermediate School District's Career Center program at Lansing Community College **have the opportunity** to earn either direct or articulated college credit while completing their high school program if specific criteria are met.

LCC credit is awarded to a student who: a) completes the high school career and technical education course with a minimum of a "C" average; b) meets the performance objectives for a specific Lansing Community College course; and, c) passes the college course final examinations, if one is required. These credits are shown as numerical grades on the student's LCC transcript. Transcripts may be requested through Lansing Community College Enrollment Services Department by August following course completion.

The courses listed below show the possible LCC college credits that may be available to high school students taking an EISD Career Preparation Program.

## HEAVY EQUIPMENT REPAIR

Students completing both heavy equipment operator and repair programs will have the opportunity to earn the following LCC articulated credit.

### **AUTO 100 Automotive Service I**

**3 LCC Credits**

This course is intended to provide the student with an extensive orientation to an automotive repair facility while developing tool and equipment usage skills needed to advance in the automotive repair field.

### **HEOT 100 Equipment Introduction**

**5 LCC Credits**

This course is intended to give the student an overall review of legal and work responsibilities of an operator of heavy construction equipment. Safety, inspections, and familiarization of equipment and operation standards for all major pieces of equipment will be stressed.