HYDRAULICS II — HCEM 2238

A. Course Description

- Credits: 3.00
- Lecture Hours/Week: 1.00
- Lab Hours/Week: 2.00
- OJT Hours/Week: 0
- Prerequisites: None
- Corequisites: None
- MnTC Goals: None

This course is designed for students with knowledge of hydraulic flow and pressure. Students learn National Standard Institute symbols used in fluid power diagrams. A technical study provides students with operational knowledge of computer-controlled multiple hydraulic systems. Students troubleshoot and diagnose hydraulic system malfunctions.

B. Course Effective Dates: 3/21/98 – Present

C. Outline of Major Content Areas

As noted on course syllabus

D. Learning Outcomes

1. Demonstrate hydraulic knowledge of Machine schematics
2. Describe hydraulic flow rate versus pressure rates
3. Disassemble and reassemble a complex hydraulic excavator valve and show oil flows
4. Explain flow compensation and how pumps respond to flow needs
5. Identify fluid types
6. Identify hydraulic components by name
7. Show comprehension of Pressure VS Work

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

F. Learner Outcomes Assessment

As noted on course syllabus

G. Special Information
None noted