HYDROSTATIC SYSTEMS — HCEM 2145

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

Students study basic principles of operations, system components, testing procedures, repair techniques and adjustments. Properly translate repairs to instructor. Positive assessment of safe tooling and diagnostic equipment. Prerequisites: HCEM 2135 (Hydraulics I) and HCEM 2177 (Machine Electronics)

B. Course Effective Dates: 3/22/98 – Present

C. Outline of Major Content Areas
   As noted on course syllabus

D. Learning Outcomes
   1. Analyze flow checks.
   2. Change flow meter operation.
   3. Demonstrate shop safety, cleanliness and organization.
   4. Disassemble fixed piston motor.
   5. Explain charge pump operation.
   6. Explain control valve operation.
   7. Explain variable piston pump operation.
   8. Identify and test hydrostatic drive systems.
   9. Illustrate hydrostatic drive principles.
  10. Proper use of specialized tools and test instruments.
  11. Troubleshoot a hydrostatic system using a hydraulic schematic.

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

F. Learner Outcomes Assessment
As noted on course syllabus

G. Special Information

None noted