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, adjustments, and preventive maintenance procedures. Prerequisites: HCEM1101 and HCEM2135 or instructor's approval

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. demonstrate shop safety
   3. disassemble fixed piston motor
   4. explain charge pump operation
   5. explain control valve operation
   6. explain fixed piston motor
   7. explain flow meter operation
   8. explain hydrostatic drives principles
   9. explain variable displacement motor operation
   10. explain variable piston pump operation
   11. identify hydrostatic drives
   12. test hydrostatic drive systems
   13. troubleshoot a hydrostatic system using a hydraulic schematic
   14. use specialized tooling
   15. use test instruments
E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

F. Learner Outcomes Assessment
   As noted on course syllabus

G. Special Information
   None noted