DIFFERENTIALS — HCEM 2265

A. Course Description
   - Credits: 2.00
   - Lecture Hours/Week: 1.00
   - Lab Hours/Week: 1.00
   - OJT Hours/Week: 0
   - Prerequisites: None
   - Corequisites: None
   - MnTC Goals: None

   This course provides students with operational knowledge of differentials used in the heavy equipment industry, including standard, limited slip, controlled traction, no spin, and locking. The course covers principles of operation, gear ratios, disassembly, assembly, and adjustment procedures. Prerequisites: HCEM1101 and HCEM2115 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. disassemble and assemble a differential
   2. display shop safety
   3. explain differential operation
   4. explain gear ratios
   5. perform all necessary adjustments to a differential
   6. remove and install a differential from a machine

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

F. Learner Outcomes Assessment
   - As noted on course syllabus

G. Special Information
   - None noted