A. COURSE DESCRIPTION

   Credits: 3
   Lecture Hours/Week: 3
   Lab Hours/Week: *. *
   OJT Hours/Week: *. *
   Prerequisites: None
   Corequisites: None
   MnTC Goals: None

   This course provides learners with an understanding of and knowledge and application skills needed in the areas of industrial instrumentation and testing that are used in the fluid power industry.

B. COURSE EFFECTIVE DATES:  12/29/1997 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

   1. Explain potential and kinetic energy.
   2. Explain temperature measurement.
   3. Discuss several temperature measurement devices.
   4. Explain pressure measurement.
   5. Discuss several temperature measurement devices.
   6. Explain force measurement.
   7. Discuss several temperature measurement devices.
   8. Explain flow measurement.
   9. Discuss several temperature measurement devices.

D. LEARNING OUTCOMES (General)

   1. The learner will demonstrate understanding of the fundamental principles of instrumentation and sensors.
   2. The learner will demonstrate understanding of energy and force measurement.
   3. The learner will demonstrate understanding of temperature, position, and velocity measurement.

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

   None

F. LEARNER OUTCOMES ASSESSMENT

   As noted on course syllabus

G. SPECIAL INFORMATION

   None noted