Alexandria Technical and Community College

WELD 1620: Blueprint Reading II

A. COURSE DESCRIPTION

   Credits: 3
   Lecture Hours/Week: 2
   Lab Hours/Week: 1
   OJT Hours/Week: *.*

   Prerequisites:
   This course requires either of these prerequisite categories
   1. WELD 1605 - Blueprint Reading I (Number of Years Valid: 5)
      Or
   2. MEDR 1609 - Engineering Drawing III (Number of Years Valid: 5)

   Corequisites: None
   MnTC Goals: None

   Students learn how to interpret weldment fabrication drawings and other types of engineering prints such as assembly, detail, machining, and tooling prints. The AWS symbols are also reviewed. Emphasis is on reading actual industry prints, answering questions from a learning workbook, and classroom discussion during group print reviews. Prerequisite: WELD1605 or MEDR1609.

B. COURSE EFFECTIVE DATES: 12/30/1997 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

   1. Understand types of prints used in the industry.
   2. Identify individual elements used on a print.
   3. Understand purpose of all elements used on a print.
   4. Identify welding processes applied to prints.
   5. Identify filler metal uses as applied to prints.
   6. Understand basic filler and groove positions.
   7. Identify proper weld sizes as displayed on a print.
   8. Understand locations on information on a print.

D. LEARNING OUTCOMES (General)

   1. The learner will demonstrate blueprint reading problem solving skills.
   2. The learner will demonstrate the ability to interpret engineering drawings.
   3. The learner will demonstrate the ability to perform mathematical calculations.

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

   None

F. LEARNER OUTCOMES ASSESSMENT

   As noted on course syllabus

G. SPECIAL INFORMATION

   None noted