Alexandria Technical and Community College

MACH 1505: Blueprint Reading/Geometric Tolerancing I

A. COURSE DESCRIPTION
   Credits: 2
   Lecture Hours/Week: 2
   Lab Hours/Week: *.*
   OJT Hours/Week: *.*
   Prerequisites: None
   Corequisites: None
   MnTC Goals: None
   This course, the first blueprint unit in Machine Tool Technology, teaches the learner basic interpretation of shop blueprints utilizing geometric tolerancing. The course gives learners the basic knowledge of reading shop prints to the extent that they can actually produce the part.

B. COURSE EFFECTIVE DATES: 05/17/1999 - Present

C. OUTLINE OF MAJOR CONTENT AREAS
   1. Identify and correctly use the alphabet of lines.
   2. Describe and interpret 1, 2, and 3 view drawings.
   3. Read, apply, and understand proper dimensioning techniques.
   4. Properly interpret drawing notes, including threads, tapers, bolt circles, holes, and slots.
   5. Convert between inch and metric units of measure.

D. LEARNING OUTCOMES (General)
   1. The learner will be able to interpret blueprint drawings.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
   None

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted