Alexandria Technical and Community College

MACH 2630: Process Planning & Applied Metrology I

A. COURSE DESCRIPTION

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

   Prerequisites:
   This course requires all five of these prerequisites
   MACH 1625 - Blueprint Reading/Geometric Tolerancing II (Number of Years Valid: 5)
   MACH 1626 - Turning II (Number of Years Valid: 5)
   MACH 1627 - Milling II (Number of Years Valid: 5)
   MACH 1628 - Grinding II (Number of Years Valid: 5)
   MACH 1629 - Machine Tool Theory II (Number of Years Valid: 5)

   Corequisites: None
   MnTC Goals: None

   The learner develops process plans and troubleshoots machining problems along with inspection procedures and reports. Prerequisite: First year of Machine Tool Technology program. Corequisite: MACH2510, MACH2631, and MACH2634.

B. COURSE EFFECTIVE DATES: 03/16/1998 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

   1. Learn basic fundamentals of the coordinate measuring machine.
   2. Use coordinate measuring machine to inspect manufactured parts.
   3. Document and evaluate tolerances on manufactured parts.

D. LEARNING OUTCOMES (General)

   1. The learner will demonstrate knowledge of process plans and inspection procedures.

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

   None

F. LEARNER OUTCOMES ASSESSMENT

   As noted on course syllabus

G. SPECIAL INFORMATION

   None noted