Alexandria Technical and Community College

MACH 1550: Grinding I

A. COURSE DESCRIPTION
   Credits: 4
   Lecture Hours/Week: 1
   Lab Hours/Week: 6
   OJT Hours/Week: *.*
   Prerequisites: None
   Corequisites: MACH 1530
   MnTC Goals: None
   This course provides hands-on experience in the use and care of surface grinders and their accessories.

B. COURSE EFFECTIVE DATES: 04/26/2021 - Present

C. OUTLINE OF MAJOR CONTENT AREAS
   1. Demonstrate proper shop safety using grinding machines.
   2. Display proper grinding set up techniques.
   3. Demonstrate proper grinding processes.
   4. Demonstrate proper usage of grinding tools.
   5. Perform proper maintenance on grinding machines.
   6. Perform inspection of machined part during grinding process.
   7. Demonstrate effective problem solving skills.

D. LEARNING OUTCOMES (General)
   1. The learner will demonstrate proper use of a surface grinder and basic setups for safety.
   2. The learner will demonstrate proper inspection of precision ground parts.
   3. The learner will demonstrate proper methods of heat treatment processes.
   4. The learner will demonstrate proper work holding and handling of precision instruments for grinding use.

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

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted