Alexandria Technical and Community College

MACH 2612: Jig and Fixture Design

A. COURSE DESCRIPTION

Credits: 2
Lecture Hours/Week: 2
Lab Hours/Week: *.*
OJT Hours/Week: *.*
Prerequisites: None
Corequisites: None
MnTC Goals: None

This course teaches principles of jig and fixture design and includes economic justification for each. Jigs are broken down in classifications and practical use of each is described. Fixtures are broken down into use and style. The focus of this class is to study different designs of jigs and fixtures and develop alternative designs and applications.

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

C. OUTLINE OF MAJOR CONTENT AREAS

1. Explain the purpose of jigs and fixtures.
2. Learn proper supporting and locating principles of piece parts.
3. Learn different and proper methods of clamping piece parts.
4. Learn and demonstrate proper jig and fixture design principles.
5. Discuss and demonstrate jig and fixture design economics.

D. LEARNING OUTCOMES (General)

1. The learner will demonstrate knowledge in developing Jigs and Fixtures.
2. The learner will demonstrate knowledge in applying geometric dimensioning into jigs and fixtures.

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted