Alexandria Technical and Community College

WELD 1633: Math II

A. COURSE DESCRIPTION
   Credits: 2
   Lecture Hours/Week: 2
   Lab Hours/Week: *.*
   OJT Hours/Week: *.*
   Prerequisites:
   This course requires the following prerequisite
   WELD 1604 - Math I (Number of Years Valid: 5)
   Corequisites: None
   MnTC Goals: None
   This course follows in sequence with the skills and knowledge acquired in Math I (WELD1604) and parallels Blueprint Reading II (WELD1620). Practical job site fabrication problems are solved using new skills acquired utilizing the principles of geometry, algebra, and trigonometry. Prerequisite: WELD1604.

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

C. OUTLINE OF MAJOR CONTENT AREAS
   1. Solve right triangles using the sine, cosine, and tangent functions.
   2. Calculate angles using inverse trigonometric functions.
   3. Use right triangles to solve for missing dimensions on a variety of geometric shapes.
   5. Solve problems involving cylinders and prisms.
   6. Use trigonometry to solve applied problems in Welding.

D. LEARNING OUTCOMES (General)
   1. The learner will demonstrate skills in solving equation problems with frames.
   2. The learner will demonstrate skills in solving advanced layout problems using Trigonometry.

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

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted