**Alexandria Technical and Community College**

**WELD 1602: OAW/Thermal Cutting**

**A. COURSE DESCRIPTION**

Credits: 2  
Lecture Hours/Week: *.*  
Lab Hours/Week: 4  
OJT Hours/Week: *.*

Prerequisites:  
WELD 1600 - Introduction: Safety and Codes (Number of Years Valid: 5)

Corequisites: None  
MnTC Goals: None

Instruction is given in safety, setup, and operating factors necessary to successfully weld steel sheets and to flame cut a variety of steel thicknesses. Brazing is also included in this course. Primary emphasis is on learners practicing through job demonstration given by the instructor. The goal is to reach an industry acceptable level of quality on an entry level basis. Corequisite: WELD1600.

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

**C. OUTLINE OF MAJOR CONTENT AREAS**

1. Understand OAW and thermal cutting processes.  
2. Identify oxy-fuel components and equipment.  
3. Identify all other thermal cutting equipment.  
4. Display knowledge of oxy-fuel and thermal cutting processes.  
5. Display safe practices of all oxy-fuel and thermal cutting.  
6. Identify alternate fuel gases.

**D. LEARNING OUTCOMES (General)**

1. The learner will demonstrate skills and knowledge in safe equipment setup.  
2. The learner will demonstrate skills in flame cutting of steel materials.

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

None

**F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted