

# Minnesota State College Southeast

## WELD 1440: Workplace Projects & Fabrication Capstone

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: \*.\*

Lab Hours/Week: 6

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

The student will be introduced to fabrication practices and techniques. The student will demonstrate project fabrication from concept and drawings, through building techniques to completion. Projects will consist of smaller personal projects and/or a larger class project. All projects must be approved by the instructor and will be supervised from concept on through completion of the project. Demonstration of welding techniques learned from the other courses will be practiced so this must be taken as one of the last classes in the program. (Prerequisites: HLTH1515, MATH0520, WELD1420, WELD1430, this course may be taken concurrently with WELD1425 and WELD1435) (3 credits: 0 lecture/3 lab)

**B. COURSE EFFECTIVE DATES:** 04/07/2008 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

1. Demonstrate safe practices and a safety conscience attitude
2. Demonstrate and apply proper set-up, start-up and shut-down procedures
3. Identify proper welding applications
4. Demonstrate proper welding techniques
5. Participate in small welding projects assigned by the instructor. Some projects may be for outside customers or other programs in the college.
6. Participate in class welding projects as assigned by the instructor. Some projects may be for outside customers or other programs in the college.
7. Participate in your own small personal fabrication project that has been approved by the instructor
8. Demonstrate readiness to take a welding Certification Test as to AWS D1.1 Standards

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted