



## FLUX CORED ARC WELDING II — WELD 1250

### A. Course Description

- **Credits:** 2.00
- **Lecture Hours/Week:** 0.00
- **Lab Hours/Week:** 2.00
- **OJT Hours/Week:** 0
- **Prerequisites:** None
- **Corequisites:** None
- **MnTC Goals:** None

This course develops the welding skills necessary for the Flux Core Arc Welding (FCAW) process on carbon steel plate in vertical and overhead positions. Prerequisites: Flux Cored Arc Welding I, Welding Safety Theory I, and must be taken at same time as Welding Safety and Theory II

### B. Course Effective Dates: 8/27/12 – Present

### C. Outline of Major Content Areas

As noted on course syllabus

### D. Learning Outcomes

1. Demonstrate proper electrode and filler rod control and manipulation for carbon steel welds.
2. Demonstrate proper safety practices.
3. Determine proper settings for amperage and voltage on the welding machine for FCAW welds.
4. Determine proper travel, speed, and work angles for FCAW welding for carbon steel welds.
5. Perform FCAW equipment setup and basic operation including gas flow settings for carbon steel welds.
6. Perform out of position welder qualification test.
7. Perform stringer bead surfacing, 3F single pass, 3G single pass, and 3G multi pass welds in the vertical-up position on carbon steel.
8. Perform stringer bead surfacing, 4F single pass, 4G single pass, and 4G multi pass welds in the overhead position on carbon steel.
9. Visually inspect welds and cuts to determine if standards are met.

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

### F. Learner Outcomes Assessment

As noted on course syllabus

**G. Special Information**

None noted