**Course Name:** WEL 204 Flux Cored Arc Welding II  
**Instructor Name:** Ryan Thomas  
**Date:** 8-28-14

### Course Competencies:

I. Follow shop safety practices.  
II. Maintain a clean, safe work area.  
III. Prepare assigned records.  
IV. Follow assigned instructions to complete work assignments.  
V. Participate in assigned fabrication projects.  
VI. Perform safety inspections on FCAW equipment  
VII. Make minor external repairs as necessary to FCAW equipment.  
VIII. Set up for FCAW operations on plain carbon steel.  
IX. Operate FCAW equipment.  
X. Make fillet welds, all positions on plain carbon steel using gas shielded wire.  
XI. Make groove welds, all position using gas shielded wire.  
XII. Examine tack and completed welds.  
XIII. Execute corrective actions to repair surface flaws on welds and base metals.  
XIV. Recognize fundamental principles of the FCAW process.  
XV. Explain fundamental principles of the FCAW process.  
XVI. Apply principles of joint design and preparation to welding, fabrication, and inspection.  
XVII. Apply principles of weld quality and repairs to welding, fabrication, and inspection.

### Course Materials (Text, Edition and any other publisher items)

**Textbooks and/or Resources:** *Modern Welding*, Althouse, et. al, Goodheart-Willcox, 11th ed., 2013

**Resources:** “Precautions and Safe Practices for Arc Welding, Cutting & Gouging”, [View here](#)

**Rubrics:** Rubrics and specific grading criteria for EACH assessment should be included at the end of the course map.

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