

Emily Griffith Opportunity School



American Welding Society

Educational Institution Member

AWS SENSE Entry Level I

Course Descriptions & Competencies

WEL 204 Flux Cored Arc Welding II

Credit Hours: 4

Contact Hours: 75

Course Description:

Covers safety inspections, minor repairs, operating parameters, operating FCAW equipment utilizing gas shielded wire, and applying fundamentals of welding applications and cost estimating to welding, fabrication, and inspection.

Competencies:

- I. Follow shop safety practices.
- II. Maintain a clean, safe work area.
- III. Prepare and maintain an achievement record and hourly log.
- IV. Follow written and verbal 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 on plain carbon steel.
- IX. Operate FCAW equipment.
- X. Perform flat multi pass, multi-directional surfacing welds on plain carbon steel using gas shielded electrodes
- XI. Make fillet welds, all positions on plain carbon steel using gas shielded electrodes.
- XII. Make groove welds, all positions on plain carbon steel using gas shielded electrodes.

- XIII. Examine tack and completed welds.
- XIV. Execute corrective actions to repair surface flaws on welds and base metals.
- XV. Recognize fundamental principles of the FCAW process.
- XVI. Explain fundamental principles of the FCAW process.
- XVII. Apply principles of welding applications to welding, fabrication, and inspection.

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Task Sheet

This is a list of all the tasks you will need to complete for this class.

Written Test

- **AWS Module 6**

Lab Performance

- **FCAW-G Flat Stringers**
- **FCAW-G Flat Padding**
- **FCAW-G 1F – 4F**
- **FCAW-G 1G – 4G**
- **Workmanship Sample – Drawing AWS-1**