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