**Day 1**

**Classroom**

**Orientation**

* FERPA, Corporate Participation Form, Non Credit Form
* Corporate Mechanical Training Contact Information
* Medical Attention
* Inclement Weather
* General Conduct and Policy
* Cell Phone Policy
* Employee Expenses
* Facility Orientation
* Safety Rules
* Cell phone policy
* Exposure categories
* Safety Chart and Quiz
* Syllabus
* 5 joints types and blueprint symbols
* 4 plate positions

**Lunch**

* Welding Safety
* Begin GMAW processes

**Lab**

* Orientation: equipment, exits and fire extinguishers
* Tool inventory
* Issue PPE

**Day 2**

**Classroom**

* GMAW processes continued
* Begin GMAW Applications
* Cover 2F assignment bead placement and bead progression
* Wire feed speed and amperage assignment
* Exposure briefing
* Stretches

**Lab**

* Demonstrate horizontal surfacing
* Demonstrate 2F
* Practice 2F-3/8” fillet. Hold point for grade
* Demonstrate fillet gauge
* Practice-3/4” fillet
* Students demonstrate fillet gauge use
* Horizontal groove weld

**Day 3**

**Classroom**

* GMAW applications
* Flux Core Arc Welding
* Exposure briefing
* Stretches

**Lab**

* Practice-continue fillets and groove weld as needed
* Demonstrate 2G simulator
* Practice 2G simulator
* 2G code test

**Day 4**

**Classroom**

* Review for Midterm
* Exposure Briefing
* Stretches

**Lab**

* Practice 2G simulator and complete 2G code test as needed
* Demonstrate vertical padding
* Demonstrate 3F uphill stringer and weave
* Practice vertical padding and 3F uphill
* 3/8” fillet inspection
* ¾” fillet inspection
* Continue 3F

**Day 5**

**Classroom**

* Midterm
* Exposure briefing
* Stretches

**Lab**

* Continue 3F as needed
* Demonstrate 3G simulator
* Practice 3G simulator

**Day 6**

**Classroom**

* Destructive Testing
* Begin non destructive testing
* Exposure briefing
* Stretches

**Lab**

* Continue 3F & 3G
* 3G test as appropriate

**Day 7**

**Classroom**

* Continue Non destructive testing
* Exposure Briefing
* Stretches

**Lab**

* Continue 3G practice and testing
* Begin 4F and 4G testing as appropriate

**Day 8**

**Classroom**

* Weld discontinuities and Welder Qualification
* Exposure briefing
* Stretches

**Lab**

* Continue 4G and 4F
* 4G and 4F testing as appropriate

**Day 9**

**Classroom**

* Review for final
* Exposure briefing
* Stretches

**Lab**

* Finish 4G and 4F testing
* 2F and 5F pipe to plate
* ½ open root with backing
* Clean lab
* Booth Tool and Equipment inventory

**Day 10**

**Classroom**

* Final
* Course evaluations
* Certificates of completion and Weld Certifications
* Class complete