

# Course Schedule Welding 115

(weeks doubled if projected over 15 weeks)

## Sessions

### Week 1 , Week 2

#### Orientation and Safety (Chapter 1)

- Safety
- Personal protection equipment
- Safe operation practices
- Ventilation
- Hot Zone operation
- Work actions for confined space
- Precautionary labels and MSDS information
- Housekeeping
- Introduction to welding and processes
- Demonstrations on processes
- Begin Shielded Metal Arc Welding in lab
- Written safety exam

### Week 3

#### Print Reading and Welding Symbols (Chapter 2 and 3)

- Basic elements of a drawing
- Proper interpretations of drawings and sketches
- Basic Welding Symbols
- Proper interpretations of welding symbols
- Fabrication of parts from drawings and sketches
- Drawing and symbols written exam

### Week 4

#### Oxyfuel Welding (OFW) (Chapters 12 and 13)

- Introduction to the OFC process
- OFC process in depth
- OFC equipment setup
- OFC Written Exam

### Week 5, Week 6

#### Shielded Metal Arc Welding (SMAW)(Chapter 5 and 6)

- Introduction to the SMAW process
- SMAW process in depth
- SMAW machine setup
- SMAW fillet welds in flat, horizontal, vertical, and overhead positions
- SMAW groove welds in flat, horizontal, vertical, and overhead positions
- SMAW welder performance qualification test, conforming to AWS D1.1 Structural Steel Code
- Shielded Metal Arc Welding written exam

### Week 8

- **Lab only**