# Welding Graduate Levels

### Welding Level I REV. o 08/25/2015 Plate-Unrestricted SMAW PROCESS

1.	Orientation- (All	beginning welding students	to attend)

- a. ABC Student Policy
- b. Safety Oxy-Fuel Cutting and Arc welding
- c. Electrode designation
- 2. Tee Joint- Flat Position ....30 hrs
  - a. Stringer Beads-Plate, SMAW, E6010 electrode
  - b. Tee Joint-SMAW, E6010 and E7018 electrode
- 3. Tee Joint-Vertical Position.....20 hrs
  - a. SMAW, E6010 and E7018 electrode
- 4. Tee Joint- Overhead Position.....20 hrs a SMAW, E6010 and E7018 electrode
- 6. Single Vee Groove Weld with back grind/gouge -Horizontal Position. 30 hrs a SMAW E7018 electrode
- 7. Single Vee Groove Weld with back grind/gouge Vertical Position...30 hrs a. SMAW E7018 electrode
- 8. Single Vee Open Groove Weld with back grind/gouge Overhead Position...30 hrs a. SMAW E7018 electrode

**Booth Hours 190** 

### **Final Activities**

- 1. Test (This can be accomplished by a "Bend Test" but preferably sent to X-Ray)
- 2. Graduation (This would be an ABC Graduate and not an NCCER Graduate)
- 3. Hours per discipline are approximate and will vary by individual. A semester consist of 120 hours:
- 4. Students are expected to cut & prep. plate coupons

### Welding Level II REv. 0 2-12-09

## <u>Pipe Stick-Un-Restricted &</u> Restricted

- Single Vee Open Groove Pipe SG Position ......90 hrs
  a. SMAW, 6010 and 7018 electrode
- Single Vee Open Groove Pipe 2G Position.....45 hrs
  a. SMAW, 6010 and 7018 electrode
- 3. Single Vee Open Groove Pipe 6G Position....40 hrs a. SMAW, 6010 and 7018 electrode
- 4. Single Vee Open Groove Pipe 2G Position "Restricted".....20 hrs a. SMAW, 6010 and 7018 electrode
- 5. Single Vee Open Groove Pipe SG Position "Restricted".....20 hrsb. SMAW, 6010 and 7018 electrode

#### **Booth Hours**

#### Final Activities

- 1. Test (This can be accomplished by a "Bend Test" but preferably sent to X-Ray)
- 2. Graduation (This would be an ABC Graduate and Not an NCCER Graduate)
- 3. Hours per discipline are approximate and will vary by individual. A semester consist of 120 hours