

Student's Name \_\_\_\_\_

|                      |   |
|----------------------|---|
| <b>Directions:</b>   | Evaluate the trainee using the rating scale below and check the appropriate number to indicate the degree of competency achieved. The numerical ratings of 3, 2, 1, and 0 are not intended to represent the traditional school grading system of A, B, C, D, and F. The descriptions associated with each of the numbers focus on level of student performance for each of the tasks listed below.  |
| <b>Rating Scale:</b> | <b>0 - No Exposure</b> - no information nor practice provided during training program, complete training required.<br><b>1 - Exposure Only</b> - general information provided with no practice time, close supervision needed and additional training required.<br><b>2 - Moderately Skilled</b> - has performed independently during training program, limited additional training may be required.<br><b>3 - Skilled</b> - can perform independently with no additional training. |

|   |            |
|---|------------|
| 1. Number of Competencies Evaluated       | _____      |
| 2. Number of Competencies Rated 2 or 3    | _____      |
| 3. Percent of Competencies Attained (2/1) | _____      |
| Grade                                     | _____      |
| Instructor Signature                      | _____ Date |

**01.0 Principles of Welding**

The student will be able to:

- 0 1 2 3
- 01.01 Identify and follow safe practices in arc welding
  - 01.02 Identify and follow safe practices in gas welding
  - 01.03 Select various sizes and types of electrodes
  - 01.04 Evaluate different types of arc welding machines
  - 01.05 Select gas welding and cutting equipment
  - 01.06 Properly assemble gas welding and cutting equipment
  - 01.07 Properly secure and shut down arc and gas welding equipment
  - 01.08 Select welding rods and fluxes
  - 01.09 Prepare equipment and materials for welding
  - 01.10 Read drawings and welding symbols
  - 01.11 Identify metal

**02.0 Arc Welding**

The student will be able to:

- 0 1 2 3
- 02.01 Demonstrate bead welding
  - 02.02 Demonstrate fillet welds for the five-types of joints in the flat horizontal position using AC or DC equipment
  - 02.03 Demonstrate vertical welding
  - 02.04 Demonstrate overhead welding
  - 02.05 Test welds for quality and strength of joint
  - 02.06 Apply distortion control in arc welding

**03.0 Oxy-Acetylene Welding and Cutting**

The student will be able to:

- 0 1 2 3
- 03.01 Demonstrate bead welding
  - 03.02 Demonstrate fillet welds for the five types of joints in flat horizontal position
  - 03.03 Demonstrate vertical welding
  - 03.04 Braze weld mild steel and cast iron
  - 03.05 Light and adjust torch flame for specific welding and/or cutting operations
  - 03.06 Apply special applications of gas welding

**04.0 MIG Welding**

The student will be able to:

- 0 1 2 3
- 04.01 Describe theory of Metal Inert Gas welding
  - 04.02 Demonstrate ability to flat weld
  - 04.03 Demonstrate ability to vertical and overhead weld
  - 04.04 Apply special applications of arc welding

**05.0 TIG Welding**

The student will be able to:

- 0 1 2 3
- 05.01 Describe theory of Tungsten Inert Gas welding
  - 05.02 Demonstrate ability to aluminum weld
  - 05.03 Demonstrate ability to weld stainless steel

**06.0 Hard Surfacing**

The student will be able to:

0 1 2 3

- 06.01 Apply hard surfacing through procedures in arc welding
- 06.02 Apply hard surfacing through procedures in oxy-acetylene welding
- 06.03 Apply hard surfacing through procedures in forging