

## **GUIDELINES – Gas Arc Welding**

**A. The student must earn no less than a B for the final grade.**

**B. The student must be a junior or senior to receive the Articulation College Credit Certificate.**

**C. The student must enroll at the higher education institution within two years of high school graduation.**

**The student must master all of the following to receive 1 of 2 credits of WELD 1327:**

### **STUDENT LEARNING OUTCOMES:**

These jobs will be welded using ER70S-6 .035 dia. Solid wire, 75% Ar-25% CO<sub>2</sub> gas, 14 ga. Sheet metal, and the short circuit process:

1. Flat stringer beads
2. 2F lap joint
3. 2F tee joint
4. 2F square tube to sheet
5. 2F pipe to sheet
6. 1G outside corner joint
7. 1G square butt (full pen.)
8. 3F lap joint
9. 3F tee joint
10. 3F pipe to sheet
11. 3G outside corner joint
12. 3G square butt (full pen.)
13. 4F lap joint
14. 4F tee joint
15. 4F pipe to sheet
16. 4G outside corner joint
17. 4G square butt (full pen.)

These jobs will be welded using ER70S-6 .045 dia. solid wire, 75% Ar-25% CO<sub>2</sub> gas, 10 ga. Or 3/16" sheet metal, and the short circuit process:

1. Flat stringer beads
2. 2F lap joint
3. 2F tee joint
4. 2F tube to sheet
5. 2F pipe to sheet
6. 1G outside corner joint (with filler material)
7. 1G square butt (full pen.)