

SHIELDED METAL ARC WELDING

1. TRUE FALSE- Reverse polarity will generate more heat at the work piece than at the electrode.
2. TRUE FALSE- A motor generator power source is designed to change DC current to AC Current.
3. TRUE FALSE- Electrode holders and ground clamps are rated according to the amount of current they may carry.
4. TRUE FALSE- AC refers to current that changes direction 120 times per second.
5. Shielded Metal Arc Welding emits which of the following types of rays?
 - a. ultraviolet
 - b. infrared
 - c. visible
 - d. all of the above
6. Shortening the arc length during a weld
 - a. increases spatter.
 - b. causes porosity
 - c. increases the rate of metal transfer
 - d. reduces penetration

GAS METAL ARC WELDING

1. Gas Metal Arc Welding is also referred to by industry as:
 - a. Arc welding
 - b. MIG
 - c. Spool welding
 - d. Gas welding
2. The distance from the contact tip of the gun to the end of the wire is called:
 - a. Arc length
 - b. Stickout
 - c. Wire feed length
 - d. All of the above
3. TRUE FALSE- Lack of fusion on the toes of the weld can also be called:
 - a. cold lap
 - b. toe crack
 - c. fusion
 - d. under cut
4. The wire feed speed also controls which of the following:

- a. Voltage
- b. Amperage
- c. Gas flow rate
- d. Inductance

5. TRUE FALSE- Arc length in Gas Metal Arc Welding can be increased by pulling the gun back further from the joint or weldment.

6. TRUE FALSE- The device that controls the on/off flow of shielding gas is called a solenoid.

OXYGEN ACETYLENE WELDING

1. TRUE FALSE- The temperature of a neutral flame is about 10,000 degrees F.

2. TRUE FALSE- The maximum safe working pressure for acetylene gas is 15 – 20 PSI

3. The acetylene cylinder valve should never be opened more than _____

- a. 1 & ½ turns
- b. 5 turns
- c. 10 turns
- d. Half way.

4. The pressure in a full bottle of oxygen is:

- a. 250 psi
- b. 2,200 psi
- c. 100 psi
- d. 3,000 psi

5. The oxygen cylinder valve should be opened:

- a. ¼ turn
- b. all the way
- c. 1 full turn
- d. 2 full turns

6. The correct lens shade for oxygen acetylene welding should be a:

- a. #5
- b. #7
- c. #9
- d. #10