**Chapter 3 Quiz**

**Shielded Metal Arc Welding**

1. Touching live electrical parts are dangerous and can result in:

(Circle correct responses)

1. Fatal shock
2. Open circuit voltage
3. Severe burns
4. Increase spatter
5. The electrode and the ground clamp are electrically live:

(Circle correct responses)

1. Only when welding is taking place
2. As soon as machine is turned on
3. When ground clamp is placed on work piece
4. When power source is running
5. Why is it important to have dry insulated gloves and PPE in good condition?

(Circle correct responses)

1. Protection from electrical shock
2. Protection from heat and sparks
3. Protection from harmful UV and infrared rays
4. Protection from harmful welding fumes
5. It’s important to keep welding leads and welding power source input cables free from:

(Circle correct responses)

1. Wet environments
2. Grease and oil
3. Bare wires
4. sparks and hot metal
5. In the electrode numerical designation, E6013, the 1 stands for :
6. Produces a weld with minimum tensile strength of 60,000 psi.
7. Welding position the electrode can be used
8. Polarity and chemical composition of the flux
9. Flat position only.
10. Breathing fumes and gases can be hazardous to your health.

(Circle correct responses)

1. Keep your head out of the fumes.
2. Use proper ventilation.
3. Do not weld coated metals.
4. Use respirator when necessary.
5. The distance from the molten tip of the SMAW electrode to the surface of the molten weld pool should be
6. Diameter of the electrode
7. Stick out
8. Stand off
9. Arc blow
10. Which welding position is preferable?
11. All positions are equal in difficulty
12. Flat position
13. Downhill
14. Lap and tee
15. Two ways to strike an arc are \_\_\_Tapping\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_scratching\_\_\_\_\_\_\_.
16. \_\_\_\_DC\_\_\_ is the welding current that provides the best weld characteristics.