

Assessment

Circle the letter that corresponds to the correct answer.

1. Differences between an oxyacetylene cutting outfit and a welding outfit can be found in the:
 - a. hoses and acetylene control valve.
 - b. hoses and oxygen control valve.
 - c. torch and acetylene regulator.
 - d. torch and oxygen regulator.

2. If the torch has a tip that is the incorrect size for the work, what should the welder do?
 - a. Adjust the flow of oxygen.
 - b. Adjust the flow of acetylene.
 - c. Replace the tip with the correct size.
 - d. Recondition the tip on a grinding wheel.

3. In oxyacetylene welding, what is a usual torch angle and distance to hold the flame from the work?
 - a. 45 degrees and 1/8 to 1/4 in.
 - b. 45 degrees and 3/8 to 1/2 in.
 - c. 60 degrees and 1/8 to 1/4 in.
 - d. 60 degrees and 3/8 to 1/2 in.

4. A small diameter welding rod can be used on thick metal to:
 - a. produce better penetration.
 - b. avoid burnthrough.
 - c. add more filler material than a larger rod.
 - d. remove excess heat from the weld pool.

5. A common welding problem in which the oxyacetylene flame goes out with a snapping sound is called:
 - a. backfire.
 - b. carbonization.
 - c. flashback.
 - d. oxidation.
6. A correct statement about a carburizing flame is that it:
 - a. has two distinct parts.
 - b. has a high temperature.
 - c. contains too much oxygen.
 - d. may add carbon to the weld.
7. A correct statement about an oxidizing flame is that it:
 - a. is low temperature.
 - b. makes a lot of noise.
 - c. has a longer inner cone.
 - d. contains too much fuel.

Complete the following short-answer questions.

8. Answer the following questions regarding an RG-60 welding rod.
 - a. What does the "R" indicate?
 - b. What does the "G" indicate?
 - c. What does the "60" indicate?
9. List two reasons why wire or rods that are not classified for oxyacetylene welding should not be used.
 - a.
 - b.

10. Define the following terms.

a. Forehand welding -

b. Backhand welding -

11. What should be done if a backfire occurs?

12. What should be done if a flashback occurs?