

Chapter 3

Welding Joints, Positions, and Symbols

Multiple Choice

Select the best answer for each of the following from the options given.

- _____ 1. A joint formed by two pieces of base metal that are at an angle of approximately 90° to each other is called a(n) _____.
A. edge joint
B. T-joint
C. lap joint
D. flange
- _____ 2. On the welding symbol, the _____ tells the welder the type of weld joint to use.
A. basic weld symbol
B. reference line
C. arrowhead
D. tail
- _____ 3. The _____ is placed in parentheses on the weld symbol.
A. effective throat size
B. groove weld size
C. height of the weld face
D. size of the fillet
- _____ 4. A _____ angle is commonly used for welding a fillet weld.
A. 0°
B. 20°
C. 30°
D. 45°
- _____ 5. Information below the reference line refers to the _____ side of the weld.
A. right
B. left
C. arrow
D. other

True or False

Indicate if each of the following statements is true or false by circling "T" or "F".

- T F 6. A stringer bead is used to create a wider weld pool.
- T F 7. When the finish symbol is the letter "G", the weld is finished by grinding.
- T F 8. A weld that is made in repeated short lengths is called an *intermittent weld*.
- T F 9. The location and spacing of the slots for a slot weld are shown on the basic weld symbol.

Completion

Complete each of the following statements with the appropriate word or phrase from the chapter.

- _____ 10. The final weld pass in a multiple-pass weld is called the _____ pass.
- _____ 11. On a welding symbol, the small black symbol shaped like a flag or pennant indicates that the weld will be made in the _____.
- _____ 12. The term used for the space between two metal pieces at the bottom of the joint to be welded is _____.
- _____ 13. A(n) _____ weld is represented on the welding symbol by a weld symbol in the shape of a triangle.

Short Answer

Answer each of the following questions in the space provided.

14. List the five basic weld joints.

15. On the welding symbol, what does the groove weld size indicate?
