Practice quiz: AWS Certified Welding Inspector - Part A Fundamentals

5 questions. The answer key is on page 2.

Name _____ Date _____

1. **A fillet weld symbol is drawn above the reference line, with nothing below it. Where is the weld made?**
   A. On the side of the joint the arrow touches
   B. Opposite the arrow side of the joint
   C. On both sides of the joint
   D. At the welder's choice of side

2. **A welding symbol shows 5/16 to the left of fillet weld symbols on both sides of the reference line, with 2-8 to the right of each, and the two symbols are offset from each other. What does it call for?**
   A. Fillets 2 in long and 5/16 in size, spaced 8 in apart end to end, directly opposite each other
   B. Fillets 5/16 in long with an 8 in leg, staggered on both sides
   C. Fillets 2 in size, 8 in long, chain intermittent on both sides
   D. Fillets 5/16 in size, 2 in long at 8 in pitch center to center, staggered on both sides

3. **An examination symbol shows MT written straddling the reference line, centered on it rather than above or below. What does that placement mean?**
   A. Magnetic particle examination with no side significance
   B. Magnetic particle examination on the arrow side only
   C. Magnetic particle examination on the other side only
   D. Magnetic particle examination of the full length only after back gouging

4. **A drafter is sketching fillet, bevel and J-groove weld symbols. Which way should the perpendicular leg of each symbol be drawn?**
   A. Always on the right
   B. Toward the arrow side member
   C. Always on the left
   D. Toward the thicker member

5. **An examination symbol shows MT + PT on the reference line. What does it require?**
   A. MT and PT, both to be performed
   B. Either MT or PT, inspector's choice
   C. MT first, with PT as the backup
   D. A single method that blends the two

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Answer key

AWS Certified Welding Inspector - Part A Fundamentals. One line of why for each answer.

1. **B** A weld symbol above the reference line calls for the weld on the other side, which is the side opposite the one the arrow touches.
2. **D** The number left of a fillet symbol is its size, so 5/16 in. To the right, the first number is the segment length (2 in) and the number after the hyphen is the pitch (8 in), measured center to center.
3. **A** MT is the letter pair for magnetic particle examination.
4. **C** A2.4 draws the perpendicular leg of fillet, bevel and J-groove symbols on the left, whichever way the arrow points.
5. **A** A plus sign between method letters calls for each method listed, so both an MT and a PT examination are made.

Full explanations

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