



Practice quiz: AWS Certified Welding Inspector - Part B Practical Applications

5 questions. The answer key is on page 2.

Name _____ Date _____

1. **A structural fillet weld replica has a face that dips inward between the toes. How should the inspector use a leaf-type fillet gauge to check its size?**
 - A. Use the leg end and record the longer of the two legs
 - B. Use the concave end with both tips on the members and check that its center point touches the weld face
 - C. Close the caliper jaws across the two weld toes and read the width
 - D. Use the reinforcement step on the V-WAC gauge to read the height of the face
2. **With its jaws closed, a dial caliper reads 0.003 in instead of zero, and the bezel cannot be reset. The caliper then reads 0.415 in across a replica. What is the corrected measurement?**
 - A. 0.418 in
 - B. 0.415 in
 - C. 0.409 in
 - D. 0.412 in
3. **A pipe butt joint replica shows a step between the inside surfaces of the two pipes at the root. Which tool feature is designed to measure that step?**
 - A. The hi-lo gauge, with one finger on each inside surface
 - B. The leg end of a fillet weld gauge, set against the root
 - C. The porosity circles on the V-WAC gauge
 - D. The outside jaws of the caliper, closed across one pipe wall
4. **Use this invented rule, not the book's value: qualification lapses after 6 months without using the process. A welder qualified in GTAW on 1 Feb, used GTAW on 15 Apr, used SMAW on 1 Sep and used GTAW again on 20 Nov. What is the GTAW status on 20 Nov?**
 - A. Qualified, because the SMAW work on 1 Sep kept the welder's qualification active
 - B. Qualified, because 20 Nov is still within a year of the 1 Feb test
 - C. Lapsed, because over 6 months passed between the GTAW uses on 15 Apr and 20 Nov
 - D. Lapsed, because the gap between the 1 Feb test and the first GTAW use on 15 Apr was too long
5. **On a pipeline replica, undercut reads 0.018 in, 0.027 in and 0.022 in at three places. Using an invented example limit of 0.025 in (not the book's value), which record is correct?**
 - A. Accept: the average of the three readings, 0.022 in, is under the limit
 - B. Accept: the first reading taken at the start, 0.018 in, is under the limit
 - C. Reject: 0.027 in at the deepest point is over the limit, citing clause 2.3 and its visual criteria
 - D. Reject: 0.027 in at the deepest point is over the limit, citing Table 4 and clause 3.2



Answer key

AWS Certified Welding Inspector - Part B Practical Applications. One line of why for each answer.

1. **B** On a concave fillet the throat, not the legs, limits the size, so the concave end is used: tips on both members, and the center point must touch the face for the blade size to be met.
2. **D** The caliper reads 0.003 in when the true size is zero, so every reading is 0.003 in high: 0.415 minus 0.003 equals 0.412 in. 0.418 in adds the error instead of removing it.
3. **A** Internal misalignment (high-low) is the offset between the two inside surfaces, and the hi-lo gauge is made to read it with a finger on each surface.
4. **C** Only GTAW use maintains a GTAW qualification.
5. **D** Undercut is judged at its deepest point, and 0.027 in exceeds the example limit, so the weld is rejected.

Full explanations

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