# 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

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# 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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