



1. The speaker highlighted language in AWS D1.1 that is intended to address unique or complex problems in welded construction. That language assigns the responsibility of approving a solution to which entity?
 - a. Authority Having Jurisdiction
 - b. Engineer
 - c. Welder
 - d. Owner

2. When a mill-induced discontinuity is discovered along the cut edge of a material, at what minimum length is further investigation, or repair required?
 - a. 1/2 in.
 - b. 1 in.
 - c. 1 1/2 in.
 - d. 2 in.

3. In the case of butt joint misalignment, what is the maximum slope at which the parts should be drawn in, according to AWS D1.1?
 - a. 1:2.5
 - b. 1:5
 - c. 1:12
 - d. 1:24

4. For plates less than 3 inches thick, how large can the root opening be before corrective action, beyond just increasing the fillet weld size, is required?
 - a. 1/8"
 - b. 3/16"
 - c. 1/4"
 - d. 5/16"



5. Which of the following is correct about the use of buttering to rectify a fit-up that is too loose, in preparation for a CJP groove weld?
 - a. Buttering is not allowed at CJP groove welds
 - b. Buttering is allowed to fix a loose fit-up, but the number of butter layers is limited to two
 - c. Buttering is allowed to fix a loose fit-up only when approved by the engineer
 - d. Buttering is allowed to fix a loose fit-up even without approval of the engineer, if the joint is within a specified dimensional limit

6. True or False: When fixing a situation where a member is cut too short, the speaker's recommendation is that a larger insert (e.g., approximately 1 ft) is better than a shorter insert (e.g., approximately 3 in.).
 - a. True
 - b. False

7. Why is it that plug welds may not be a good substitute for high-strength bolts?
 - a. Plug welds do not have the same capacity as a high-strength bolts
 - b. For cyclically loaded connections, plug welds have poor fatigue performance
 - c. Plug welds are assumed to be loaded in shear, whereas bolts might resist tensile force
 - d. All of the above

8. Which of the following is NOT correct regarding weldability?
 - a. Weldability is affected by hardenability.
 - b. Weldability refers to how easily the material can be welded.
 - c. Weldability is a judgment of whether or not a material can be welded.
 - d. Weldability is affected by carbon content.

9. Which of the following is a feature of the anchor rod extension welding procedure developed by Jim Fisher and Larry Kloiber?
 - a. A special steel donut with an inside dimension equal to the outside dimension of the too-short anchor rod
 - b. An anchor rod extension with a pencil-point preparation
 - c. A backing bar on one side of the anchor rod extension
 - d. All of the above



Welded Connections – A Primer For Engineers

Quiz for Session 8: Problems and Fixes – December 10, 2019

Due: January 7, 8:00 a.m. EST – Submit through the online form

10. According to the speaker, what is the question that should be asked when assessing unspecified welds on a project?
- a. How were these welds made?
 - b. Were the welds inspected?
 - c. Where are these welds located?
 - d. Why were these welds added?



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