



1. AISC 303-16 refers to...
 - a. The 15th Edition AISC *Steel Construction Manual*
 - b. The AISC *Code of Standard Practice for Steel Buildings and Bridges*
 - c. The AISC *Seismic Provisions for Structural Steel Buildings*
 - d. AISC *Detailing for Steel Construction*, Third Edition

2. What Seismic Response Modification Coefficient, R , will result in the most economical designs for connections in the Seismic Force-Resisting System?
 - a. $R=3$
 - b. $R=3.25$
 - c. $R=6$
 - d. $R=8$

3. Which of the following options for connection design requires the *owner's designated representative for design (ODRD)* to document the complete connection design on the structural design drawings?
 - a. Option 1
 - b. Option 2
 - c. Option 3A
 - d. Option 3B

4. When the *Code of Standard Practice*, Section 3.1.1 connection Option 1 is used by the ODRD, which of the following *is not required* to be shown on the structural design drawings?
 - a. Details of all member reinforcing at the connections
 - b. Details of all bolted and welded connections
 - c. Details of all field welds on connections
 - d. Indication of whether LRFD or ASD is to be used for design of the connections

5. When the *Code of Standard Practice*, Section 3.1.1 connection Option 3 is used by the ODRD, which of the following is the fabricator required to provide to the ODRD?
 - a. Representative samples of required substantiating connection information
 - b. Confirmation in writing from the engineer in responsible charge of connection design that the approval documents properly incorporate the connection designs
 - c. A means by which the substantiating connection information is referenced to the related connections on the approval documents
 - d. All of the above



Connection Design: Tips, Tricks & Lessons Learned
Quiz for Session 1: Delegating Connection Design – February 11, 2019
Due: March 4, 8:00 a.m. EST – Submit through the online form

6. The term “conceptual configuration of reinforcement” as referred to in the *Code of Standard Practice*, Section 3.1.2 Option 3B refers to...
 - a. Details showing member reinforcement at the connections appropriate for the order of magnitude of forces to be transferred at the connections
 - b. Reinforcing details around web openings in beams
 - c. Weld details between the web and flanges of plate girders
 - d. Fully designed connection details

7. True or False: AISC 303-16 indicates that investigation, and determination of where member reinforcement at the connections is required, is always the responsibility of the fabricator’s engineer in responsible charge of connection design.
 - a. True
 - b. False

8. AISC 303-16, Section 3.1.2 requires that ODRD design all member reinforcement at the connections for which of the Section 3.1.1 connection design options?
 - a. Option 1
 - b. Option 2
 - c. Option 3A
 - d. All of the above

9. What is the preferred way of specifying the required beam shear connection design strength on the structural design documents?
 - a. Requiring all connections to be designed to support the full strength of the member
 - b. Providing a table listing the required shear connection strength for each nominal beam depth
 - c. Showing the beam end reactions on the framing plans and indicating whether those reactions are service-load level or factored-load level
 - d. Providing shear connections to be designed for a percentage of the Table 3-6 Uniform Load Capacity of the beams

10. Tension members having $F_y = 50$ ksi and higher, with bolted connections having an effective area at the connections of at least 0.75 x gross area, should be sized to limit the tension yield strength ratio to:
 - a. 0.50
 - b. 0.75
 - c. 0.90
 - d. 1.00

