

To be submitted by 8:00 a.m. EDT May 3, 2022 – Submit through online form



Night School 28 – Vertical Bracing Connections
Quiz 1

1. Connection requirements are mostly included in which chapter of AISC 360-16
Specification:
 - a. Chapter B
 - b. Chapter D
 - c. Chapter J
 - d. Chapter K

2. Information on bolts and welds are in which parts of the *Manual*:
 - a. Part 11 and 12
 - b. Part 9 and 10
 - c. Part 10
 - d. Part 7 and 8

3. Whitmore section is discussed in which part of the 15th Ed. Manual:
 - a. Part 7
 - b. Part 8
 - c. Part 9
 - d. Part 10

4. The Code of Standard Practice lists how many options for connection design:
 - a. 1
 - b. 2
 - c. 3
 - d. 4

5. If the Code of Standard Practice option 3 is selected, the fabricator is:
 - a. responsible for connection design
 - b. must always follow the exact detail on the contract documents
 - c. may typically choose connections which are best suited for their shop
 - d. a and c

- 6 AISC recommends which procedure for brace connection design:
 - a. UFM
 - b. KISS Method



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- c. Parallel Force Method
 - d. All of the above
7. When using the KISS method at brace to column flange connections:
- a. There is always a moment
 - b. There is never a moment
 - c. The moment is dependent on the work point location
 - d. There are only moments at column webs
8. The lower bound theorem states:
- a. Must satisfy equilibrium
 - b. Must satisfy limit states
 - c. Cannot have excessive deflection
 - d. Both a and b
9. A practical solution obtained through structural mechanics:
- a. Satisfies equilibrium
 - b. Satisfies limit states
 - c. Satisfies compatibility
 - d. All of the above
10. Erection of structures is covered by
- a. AISC Specification Chapter B
 - b. OSHA
 - c. Manual Part 10
 - d. AWS

