



Night School 28 – Vertical Bracing Connections
Quiz 5

1. The force denoted “ Q ” in the presentation was necessary to deliver the beam gravity shear to the column web face.
 - a. True
 - b. False

2. The effective net area of the brace must be not less than the brace gross area.
 - a. True
 - b. False

3. Each bolt must be checked for :
 - a. Shear and bearing
 - b. Shear and tearout
 - c. Shear, bearing and tearout
 - d. None of the above

4. The primary purpose of the Whitmore section is to provide a method to check gusset buckling.
 - a. True
 - b. False

5. In the Uniform Force Method Special Case IV, a column web connection is treated as though it were a column flange connection.
 - a. True
 - b. False

6. True or False: The gusset plate width must be wide enough to allow the use of a full Whitmore section when checking the gusset for yielding and buckling.
 - a. True
 - b. False



Vertical Bracing Connections Session 5: Uniform Force Method Part 2 – Special Case IV and V

May 3, 2022

To be submitted by 8:00 a.m. EDT May 31, 2022 – Submit through online form

7. True or False: The Uniform Force Method Special Case V provides a method to eliminate the overstress in the beam that would necessitate a web doubler by transferring some of the UFM shear component, V_b , to the column.
 - a. True
 - b. False

8. True or False: The force Q and the moment M_Q are always in the same direction regardless of the brace force direction.
 - a. True
 - b. False

9. True or False: To avoid coping or blocking the beam flange, two separate plates can be used to connect to the column web.
 - a. True
 - b. False

10. True or False: Special Case IV provides bolt groups in the shear plate that are modeled as concentrically loaded.
 - a. True
 - b. False

