

Instructors Answer Copy
Metal Buildings Institute
Bolting & Aligning Final Test

Name: (Please Print) _____

Signature _____ Date _____

Circle the letter that best answers or completes each of the questions or statements.

- 1.) The length of the bolt is measured from the end of the threads to where ? C
A.) Top of the head
B.) To the shank
C.) Underside of the head
- 2) UNC stands for B
A.) United National Coarse.
B.) Unified National Coarse
C.) Utility National Coarse
- 3) On a 3/4 - 20 UNC 2 1/2" bolt, how many threads per inch ?..... 20
A.) 20
B.) 3/4
C.) 2 1/2
- 4) The 3 main types of bolts used in the erection of metal buildings are A307
A.) _____ A325
B.) _____ A490
C.) _____
- 5) What markings must be on the head of the type 1 A325 bolt ?..... B & C
A.) Three lines @ 120 degrees
B.) Manufacturers Mark
C.) A325
- 6.) Which of the following statements is false?..... C
A.) Torque is the amount of twisting or turning force used to tighten a nut to a bolt.
B.) Grip is the distance from behind the bolt head to the back of the nut or washer.
C.) The same torque applied to a nut and bolt always results in the same grip.
D.) All of the above are true. A490
- 7.) Which high strength bolt is always made from alloy steel ?.....
A.) A490
B.) A325
C.) A307
D.) All of the above Bevel Washer
- 8.) What provides a square seat for a bolt head or nut when either is put through a sloping face ?.....

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- 9.) What 2 types of bolts may never be reused after they have been pretensioned ? A490 & Galvanized
- A.) A325
 - B.) A490
 - C.) Galvanized
- 10.) What term is used to describe the point when an impact wrench begins to impact ?..... Snug Tight
- A.) Snug Tight
 - B.) Tight enough
 - C.) Tight fit
- 11.) Name the three parts of a bolt Head / Shank / Threads
-
- 12.) With the turn of the nut method, how much should the nut be turned.
if the bolt length is up to and including 4 diameters..... 1/3.
- A.) 1/2 turn
 - B.) 1/3 turn
 - C.) 3/4 turn
- 13.) How often must a torque wrench be recalibrated ? A
- A.) Once a day
 - B.) Once a week
 - C.) Every time it is used
- 14.) What is a squirter ? C
- A.) A leaking caulking gun
 - B.) An over oiled bolt
 - C.) Direct Tension Indicator
- 15.) How much can you enlarge a hole for a 3/4 inch bolt ? D
- A.) 1/8 inch
 - B.) 2/16 inch
 - C.) 4/64 inch
 - D.) All of the above
- 16.) What do you do with unused fasteners at the end of a shift ? B
- A.) Cover with plastic
 - B.) Return to protective storage
 - C.) Lay out for next day