Test Administration Instructions

MCAA

SAFETY EXCELLENCE INITIATIVE

How to Administer Tests to Trainees

In this document, you will find a 20-question multiple-choice test that corresponds with a particular MCAA Safety Training Video.

1. Ensure that you have the test that corresponds with the planned video training.
2. Make one copy of the test for each trainee.
3. Give one test to each trainee. Remind them to put their name on each page of their copy in case pages become separated.
4. Collect all test papers after they are completed.
5. Grade the tests using the corresponding Safety Training Test Answer Key here.
6. Return the graded test papers to each trainee. Make sure they understand the correct answers to all of the test questions they answered incorrectly.
7. Collect **ALL** of the test papers and place them in a secure file.
8. Keep the completed test papers with your documentation for this video to show proof of worker training.

Safe Pressure Testing of Steel and Copper Piping Systems

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Name: _____

***Directions* – Circle the letter corresponding to the best answer for each question.**

1. The safest type of pressure testing is _____ testing.
   a. pneumatic
   b. hydraulic
   c. hydrostatic
   d. mechanical

2. _____ can't be compressed like _____.
   a. Liquids – gases
   b. Nitrogen – water
   c. Argon – liquids
   d. Water – liquid compounds

3. One of the best ways to help prevent over-pressurizing a piping system is to
   a. perform hydrostatic testing whenever possible.
   b. install a pressure relief valve.
   c. test at low pressure.
   d. Increase the pressure quickly.

4. Use gauges that place the test pressure at the _____ o'clock position.
   a. 3
   b. 6
   c. 9
   d. 12

5. When choosing test gauges, ensure that they register _____ before installing them.
   a. no more than 2.5 psi
   b. zero
   c. -1 to 1 kPa
   d. no more than 1% of test pressure

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6. If you're not using brand new properly calibrated test gauges, make sure they have been properly calibrated within the past _____ month(s).
    a. 1
    b. 6
    c. 12
    d. 24

7. Always inspect pressure testing equipment before each test looking for _____ equipment.
    a. damaged
    b. poor quality
    c. damaged and poor-quality
    d. state-of-the-art

8. Only use pressure testing equipment that is in good condition and made
    a. in the United States.
    b. in North America.
    c. and inspected by Underwriters Laboratories (UL).
    d. by a reputable manufacturer.

9. Prior to pressure testing any piping system, always
    a. verify proper system design.
    b. fill the system with water or another approved liquid test medium.
    c. identify the qualified person.
    d. none of the above.

10. To help prevent pressure testing failures due to operator error, adhere to
    a. standard operating procedures.
    b. safe work practices.
    c. equipment and materials manufacturers' recommendations.
    d. all the above.

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11. To help prevent pressure testing failures it's important to check for _____ before pressurizing the system.
    a. misalignments
    b. rolled or cut gaskets
    c. improper fittings
    d. all the above

12. Mechanical equipment and other parts of a piping system that are not part of the pressure test need to be
    a. isolated.
    b. inspected.
    c. opened.
    d. covered.

13. To ensure that a piping system has been properly prepared for pressure testing, a _____ should be performed immediately before the test.
    a. safety briefing
    b. walk-down
    c. lockout/tagout procedure
    d. fitting and gauge check

14. When performing a detailed piping system inspection immediately before testing, ensure that _____ have been properly completed.
    a. lockout/tagout procedures
    b. necessary permits
    c. walk-down procedures
    d. owner authorization documentation procedures

15. Prior to pressurizing a piping system all joints and connections need to be
    a. exposed.
    b. visible.
    c. evaluated.
    d. exposed and visible.

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16. Prior to performing pneumatic testing on a piping system make sure
    a. the system is properly drained.
    b. the test medium is non-flammable/toxic.
    c. the system is properly vented.
    d. all the above.

17. Always use _____ pressure testing gauges.
    a. 1
    b. 2
    c. 1 or 2
    d. all the above

18. A pressure testing gauge should be placed at the
    a. mid-point.
    b. low point.
    c. furthest or highest point.
    d. source of pressure only.

19. Increasing pressure gradually while testing helps to prevent
    a. over-pressurizing the piping system.
    b. piping system leaks.
    c. damaging pressure testing equipment.
    d. changes to test gauge calibrations.

20. When performing _____, establish proper water drainage and collection points.
    a. walk-downs
    b. inspections
    c. hydrostatic pressure testing
    d. pre-task safety and health planning