

Test Administration Instructions



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 answer keys provided in the "Answer Keys" document at www.mcaa.org/private/videos.
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.

Avoid the Path: Electric Arc Welding Safety Test



SAFETY EXCELLENCE INITIATIVE

Name: _____

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

1. The most common electric arc welding hazards include _____.
 - a. electric shock, burn, eye and fire hazards.
 - b. fire, burn, electrical shock, respiratory and eye hazards.
 - c. respiratory, burn and eye hazards.
 - d. electric shock and electrocution hazards.

2. When welding on a jobsite, your work cable should be clamped or otherwise electrically connected _____.
 - a. directly to the work.
 - b. to a nearby steel beam.
 - c. to the work, or to a nearby steel beam.
 - d. any of the above.

3. The work cable should also be clamped or otherwise electrically connected _____.
 - a. within 60 feet of the weld.
 - b. no more than 10 feet from the weld.
 - c. as close to the weld as practical.
 - d. it makes no difference from a safety standpoint.

4. Anytime you could come in contact with conductive material while welding be sure to _____.
 - a. inform your supervisor about it ahead of time.
 - b. position your body so that you are unlikely to make contact with the material.
 - c. wear the appropriate personal protective equipment.
 - d. insulate yourself from the conductive material with rubber welding mats or other insulators.

5. If your work environment is wet _____.
 - a. avoid electric arc welding in the area until it dries out.
 - b. wear rubber boots.
 - c. drape the stinger leads over pipes or ducts to keep them out of the water.
 - d. insulate yourself from ground and all affected conductive materials.

More...

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SAFETY EXCELLENCE INITIATIVE

Name: _____

6. If the work environment is damp _____
 - a. avoid electric arc welding in the area until it dries out.
 - b. wear rubber boots.
 - c. drape the stinger leads over pipes or ducts to keep them out of the water.
 - d. insulate yourself from ground and all affected conductive materials.

7. Typical stick welding machines produce between _____ amps of current.
 - a. 1 and 10
 - b. 10 and 100
 - c. 10 and 600
 - d. 100 and 600

8. It only takes around _____ to kill a human being.
 - a. 70 to 100 amps
 - b. 70 to 100 milliamps
 - c. 1 one-thousandth of a single amp
 - d. 200 amps

9. Before you start to weld, always _____
 - a. inspect the stinger leads.
 - b. put on new welding gloves.
 - c. inform everyone in the building.
 - d. all of the above.

10. Any time you identify damaged or defective leads or other damaged welding equipment, _____
 - a. cut them up so that nobody else can use them.
 - b. throw them away in a trash dumpster where nobody else can find them.
 - c. take them to a qualified person for repair or replacement.
 - d. follow your company's procedures for taking damaged/defective equipment out of service.

11. To help prevent burns always wear clothes made of flame resistant fabrics designed for hot work operations or clothing made of _____
 - a. nylon.
 - b. untreated natural fibers.
 - c. acrylic.
 - d. polyester.

More...

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Name: _____

12. Which of the following fabrics will not burn?
 - a. acrylic
 - b. polyester
 - c. cotton
 - d. none of the above

13. The shade of filter plate you need for eye protection depends on _____.
 - a. the size of the work and the amount of current you'll be using for the job.
 - b. the voltage you'll be using for the job.
 - c. the size of the electrode and the amount of current you'll be using for the job.
 - d. all of the above.

14. The minimum shade filter plate that you'll need when electric arc welding is _____.
 - a. #10.
 - b. #12.
 - c. #13.
 - d. #14.

15. One type of personal protective equipment you should always wear when welding is _____.
 - a. ear plugs.
 - b. protected toe boots.
 - c. safety glasses.
 - d. Class 00 gloves.

16. Metals that are heated to the melting point can generate _____.
 - a. carbon monoxide.
 - b. noxious fumes.
 - c. lung cancer.
 - d. Parkinson's disease.

17. Inhaling certain by-products generated from melting metal can result in health problems when _____.
 - a. they are inhaled in any concentration.
 - b. they are inhaled for any period of time.
 - c. they are inhaled in large enough concentrations over a period of time.
 - d. a and b above.

More...

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Name: _____

18. Adequate methods of protection from overexposure to welding fumes include _____
- good ventilation and proper positioning of the body and welding helmet.
 - good ventilation, proper body and welding helmet positioning and respirator use when needed.
 - good ventilation and respirator use when needed.
 - proper positioning of the body and welding helmet and respirator use when needed.
19. Since combustible materials can smolder for a while before bursting into flames, be sure to _____
- monitor the work area after you stop welding for the day.
 - assign someone to perform fire watch duties.
 - start watching for smoldering materials 30 minutes before you stop welding for the day.
 - follow the facility's and your own company's requirements regarding fire watch.
20. Whenever you are welding keep at least one Class _____ fire extinguisher in close proximity.
- ABC
 - A
 - BC
 - D