Shop Safety Test

Name:

Multiple Choice

*DIRECTIONS: Identify the letter of the choice that best completes the statement or answers the question. Each question has only one correct answer.*

1. Eye protection shall be worn:
   1. At all times when you are in the shop
   2. Only when you are working
   3. When the instructor tells you
   4. When performing a hazardous task
2. Safety glasses are worn by:
   1. Everyone
   2. Students only
   3. Visitors only
   4. Instructors only
3. In case of injury, report at once to:
   1. Nurse
   2. Instructor
   3. Class safety officer
   4. Doctor
4. A respirator is used when welding metals that give off \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ fumes:
   1. Electrode
   2. Oxygen
   3. Toxic
   4. Acetylene

1. To ensure a safe work site when welding:
   1. Report all injuries
   2. Never attempt to operate any equipment without the proper instruction
   3. Always practice good safety habits
   4. All of the above
2. Personal protective clothing that should be worn for welding is:
   1. Any street clothes
   2. Wool, cotton and leather clothing
   3. Synthetic clothing
   4. Nylon clothing
3. Accidents occur because of:
   1. Indifference to regulations
   2. Lack of information
   3. Carelessness
   4. All of the above
4. If in doubt about any welding operation and you are not sure of yourself:
   1. Stop and don’t do it
   2. Check the textbook or reference source
   3. Check with the instructor
   4. All of the above
5. For the safe operation of electrical welding equipment:
   1. Shut OFF the power when welding is completed
   2. Be sure the welding machine is equipped with a conveniently located power disconnect
   3. Do not change the polarity when the machine is under load
   4. All of the above
6. Proper protective clothing is required when welding or cutting to prevent \_\_\_\_\_\_\_\_\_ from contacting the welder:
   1. Sparks that may cause serious burns
   2. Rays that are extremely dangerous to the eyes or skin
   3. Hot metal that may cause burns
   4. All of the above
7. Welders are subjected to eye injuries caused by:
   1. Foreign objects in the eye
   2. Arc flash burn
   3. UV and Infrared radiation
   4. All of the above
8. When picking up hot metal objects, be sure to use:
   1. Gloves
   2. A C-clamp
   3. Tongs or pliers
   4. Another piece of metal
9. \_\_\_\_\_\_\_\_\_\_ gives off extremely toxic fumes when welding:
   1. Aluminium
   2. Galvanized steel
   3. High carbon steel
   4. None of the above
10. Class \_\_\_\_\_\_\_\_\_\_\_\_\_ fire extinguishers should be located near the exits in a welding shop:
    1. A
    2. B
    3. A, B, and C
    4. C
11. If you feel a slight shock when operating electrical equipment:
    1. Continue working, a slight shock is normal
    2. Stop for a few minutes, the shock should stop
    3. Finish the job, then tell the instructor
    4. Discontinue working immediately and notify the instructor
12. When welding with stick electrodes in the range of 80 to 120 amps, use a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ shade lens:
    1. #3
    2. #5
    3. #10
    4. #14
13. Always be sure your hands and feet are dry when welding so that:
    1. You do not become part of the circuit
    2. You do not slip and fall
    3. You do not burn holes in your clothes
    4. None of the above
14. To avoid accidents while working around the welding bench, always keep electrodes and electrode stubs off the:
    1. Table
    2. Bench
    3. Floor and in the rod can
    4. None of the above
15. When oxyacetylene welding or cutting, use a \_\_\_\_\_\_\_\_\_\_\_\_\_ shade lens:
    1. #11
    2. #9
    3. #5
    4. #1
16. Oxygen should be used only for:
    1. Operating pneumatic tools or when compressed air is not available
    2. Dusting clothing or work
    3. Welding or cutting operations only
    4. To assist in cooling you off when it is hot outside
17. Acetylene cylinders should be opened:
    1. No more than one [1] full turn
    2. No more than five [5] full turns
    3. No more than three [3] full turns
    4. All the way open
18. When a welding torch backfires (pops and blows itself out), you should:
    1. Close the acetylene needle valve first
    2. Close the oxygen needle valve
    3. Drop the equipment and run for the hills
    4. Inspect the equipment and continue
19. You should make sure gas welding regulators and equipment are:
    1. Lubricated with oil
    2. Cleaned with lacquer thinner
    3. Kept free of oil and grease
    4. Painted
20. The color of the oxygen hose is:
    1. Red
    2. Green
    3. Yellow
    4. Safety orange
21. The color of the acetylene hose is:
    1. Red
    2. Green
    3. Yellow
    4. Safety orange
22. Acetylene connectors have:
    1. Right hand threads
    2. Left hand threads
    3. Are notched
    4. Both ‘b’ and ‘c’
23. When using oxygen and acetylene cylinders, open the valves:
    1. Quickly
    2. Slowly
    3. With a pair or pliers
    4. None of the above

True/False

*DIRECTIONS: Indicate whether the sentence or statement is true or false. Completely write “true” or “false” in the space provided.*

1. \_\_\_\_\_Accidents occur because of carelessness or indifference to safety regulations.
2. \_\_\_\_\_Safety practices must be followed at all times.
3. \_\_\_\_\_An accident should always be reported, no matter how minor the accident.
4. \_\_\_\_\_Any form of horseplay on a job site is dangerous and can lead to an accident.
5. \_\_\_\_\_Welding equipment should not be used until exact instructions on its operation are received.
6. \_\_\_\_\_If welding equipment stops working, the welder should open the case and attempt to repair is as quickly as possible.
7. \_\_\_\_\_Some welding processes do not require a well-ventilated area.
8. \_\_\_\_\_When welding is completed, the welding machine should be turned off.
9. \_\_\_\_\_A welding machine that is not properly grounded can cause sever shock.
10. \_\_\_\_\_Operating welding cables above their rated capacity results in faster welding speeds.
11. \_\_\_\_\_A fire extinguisher should be accessible in locations where welding is done.
12. \_\_\_\_\_When welding or cutting a hollow casting, a vent is required to allow for the release of air pressure or steam.
13. \_\_\_\_\_A respirator should be used in situations where welding metals give off toxic fumes.
14. \_\_\_\_\_A permit is required to enter confined spaces containing atmospheric hazards.
15. \_\_\_\_\_An MSDS provides information about every hazardous component of a material’s content.
16. \_\_\_\_\_A mixture of detergent and water should ne used to test for leaks in all gas welding connections.
17. \_\_\_\_\_It is perfectly acceptable to lay down a lit torch.
18. \_\_\_\_\_A friction lighter is the only acceptable way to light your torch in the shop.
19. \_\_\_\_\_You should always close the cylinder valves and bleed the lines when finished welding with OAW.
20. \_\_\_\_\_You should always stand to the side of the regulator when opening gas cylinders.
21. \_\_\_\_\_Safety glasses rated ANSI Z87 are appropriate in the welding shop.
22. \_\_\_\_\_Deliberate disregard for safety practices may result in your removal from a job site or this course.
23. \_\_\_\_\_Oxygen and acetylene connectors should e lubricated with oil to keep them operating properly.
24. \_\_\_\_\_Welding in the rain or while standing in a puddle can be dangerous and can result in death.
25. \_\_\_\_\_Welding with argon as a shielding gas, on the inside of a tank, is the safety method and requires no special precautions.
26. \_\_\_\_\_When using a portable grinder, one should always try to position the work so that sparks are directed safely downward.
27. \_\_\_\_\_A welding hat should be work to help shield hair and ears from hot sparks.
28. \_\_\_\_\_Pants with cuffs are useful for retaining molten metal and can result in a critical burn.
29. \_\_\_\_\_Leather is used for many welding garments because it is an excellent insulator of heat and electricity.
30. \_\_\_\_\_When arc welding, it is important to protect yourself from dangerous light rays.
31. \_\_\_\_\_Welders should get in the habit of keeping their heads out of the fume plume.
32. \_\_\_\_\_Eye injuries are the most common types in the welding industry.
33. \_\_\_\_\_Leather shoes or sturdy close-toed shoes are required for wearing around the welding shop.
34. \_\_\_\_\_Acetylene bottles should be opened all the way because they have double-seating valves.
35. \_\_\_\_\_When lighting the torch, both the fuel and the oxygen need to be purged prior to lighting.
36. \_\_\_\_\_All high-pressure cylinders have double-seating valves that are designed to open all the way.
37. \_\_\_\_\_Sunglasses offer proper protection from the light of the molten metal.
38. \_\_\_\_\_Acetylene should never be stored in an unventilated area or carried in the trunk of a car.
39. \_\_\_\_\_When using portable grinders, it is require that all guards are installed and a face shield is worn at all times.
40. \_\_\_\_\_Standard grinding wheels work great for brass, copper and aluminium.
41. \_\_\_\_\_Shop rules require face shields to be worn when operating any bench grinder or belt sander.
42. \_\_\_\_\_Cylinders must always be chained or fixed securely even if safety caps are installed.
43. \_\_\_\_\_Loose connections and worn cables are an electrical hazard and should be reported to the instructor.
44. \_\_\_\_\_Stainless steel welding as of 1/1/2007 requires the use of a respirator for all forms of arc transfer.
45. \_\_\_\_\_Fireproof earplugs shall be worn when welding anything out of position.
46. \_\_\_\_\_Warnings on specific safety issues have been posted throughout the shop and shall be adhered to at all times.
47. \_\_\_\_\_Students who are not utilizing the correct PPE as outlined and discussed in class will be dismissed from lab until he or she is properly equipped.
48. \_\_\_\_\_It is only your shop mate’s responsibilities to create a safe working environment.

Complete after test is completed AND corrected:

I have read and understand the given safety rules relating to various shop activities and will do the best I can to ensure a safe working and learning environment for not only myself, but the other students in our class.

Signed:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*For any questions you missed on the exam, correct and rewrite the question in the area below.*

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