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| Multiple Choice |

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| 1. Burns \_\_\_\_.   |  |  |  | | --- | --- | --- | |  | a. | are caused by heat and not light | |  | b. | are among the least common injuries in a welding shop | |  | c. | are divided into four categories | |  | d. | have a high risk of infection because of the dead tissue |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | Page 22, Burn Classification | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:02 AM | |

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| 2. To treat a third degree burn \_\_\_\_.   |  |  |  | | --- | --- | --- | |  | a. | apply ointments or antiseptic spray | |  | b. | remove all clothing stuck to the burn | |  | c. | cover the burned area with thick, sterile, non-fluffy dressings | |  | d. | pour iced water on the burn |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | Pages 22-23, Third-Degree Burns | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:03 AM | |

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| 3. \_\_\_\_ light is dangerous because the welder cannot feel the light while being exposed to it, and it may pass through clothing.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Ultraviolet | b. | Infrared | |  | c. | Visible | d. | Spectral |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | Pages 22-23, Burns Caused by Light | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:03 AM | |

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| 4. \_\_\_\_ light can cause temporary night blindness.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Ultraviolet | b. | Infrared | |  | c. | Visible | d. | Spectral |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | Page 23, Burns Caused by Light | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:05 AM | |

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| 5. \_\_\_\_ light can cause burns, but a person will immediately feel this type of light.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Ultraviolet | b. | Infrared | |  | c. | Visible | d. | Spectral |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | Page 23, Burns Caused by Light | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:05 AM | |

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| 6. \_\_\_\_ respirators are air-purifying respirators that use a blower to force the ambient air through air-purifying elements to the inlet covering.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Air-purifying | b. | Atmosphere-supplying | |  | c. | Powered air-purifying | d. | Supplied-air |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | Pages 29-30, Respiratory Protection | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:06 AM | |

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| 7. The symptoms of lead poisoning include \_\_\_\_.   |  |  |  | | --- | --- | --- | |  | a. | influenza symptoms | |  | b. | lung irritation and kidney damage | |  | c. | abdominal cramps and lung irritation | |  | d. | metallic taste, loss of appetite, nausea, abdominal cramps, and insomnia |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | Pages 29-31, Respiratory Protection | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:08 AM | |

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| 8. The symptom of acute exposure to high concentrations of cadmium fumes is \_\_\_\_.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | loss of appetite | b. | lung irritation | |  | c. | abdominal cramps | d. | insomnia |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | Pages 29-31, Respiratory Protection | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:09 AM | |

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| 9. The symptoms of exposure to zinc oxide fumes include \_\_\_\_.   |  |  |  | | --- | --- | --- | |  | a. | influenza symptoms | |  | b. | lung irritation and kidney damage | |  | c. | abdominal cramps and lung irritation | |  | d. | metallic taste, loss of appetite, nausea, abdominal cramps, and insomnia |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | Pages 29-31, Respiratory Protection | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:10 AM | |

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| 10. \_\_\_\_ is a gas that is produced by the ultraviolet radiation in the air in the vicinity of welding operations.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Argon | b. | Phosgene | |  | c. | Ozone | d. | Carbon dioxide |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | Pages 29-31, Respiratory Protection | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:10 AM | |

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| 11. \_\_\_\_ is formed when ultraviolet radiation decomposes chlorinated hydrocarbon.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Argon | b. | Phosgene | |  | c. | Ozone | d. | Carbon dioxide |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | Page 29-31, Respiratory Protection | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:13 AM | |

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| 12. Any system of ventilation should draw the fumes or smoke away before it rises past the level of the welder’s \_\_\_\_.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | shin | b. | hip | |  | c. | chest | d. | face |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | Pages 31-32, Ventilation | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:13 AM | |

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| 13. General work clothing should \_\_\_\_.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | be made of a synthetic fabric | b. | be loosely woven, and a light color | |  | c. | be tightly woven and a dark color | d. | have deep pockets |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | Page 24, General Work Clothing | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:14 AM | |

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| 14. The best material to use for special protective clothing is \_\_\_\_.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | polyester | b. | 100% cotton | |  | c. | 100% wool | d. | leather |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | Page 25, Special Protective Clothing | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:15 AM | |

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| 15. Stored oxygen and fuel gas cylinders \_\_\_\_.   |  |  |  | | --- | --- | --- | |  | a. | can be stored separately or together | |  | b. | must be separated by 20 feet | |  | c. | must be separated by a 20 ft. high wall | |  | d. | must be separated by 5 feet |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | Page 32, Handling and Storing Cylinders | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:16 AM | |

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| 16. Acetylene cylinders that have been lying on their sides must stand upright for at least \_\_\_\_ hours before they are used.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | two | b. | three | |  | c. | four | d. | five |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | Page 34, Acetylene | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:17 AM | |

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| 17. \_\_\_\_ fire extinguishers are used for combustible solids.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Type A | b. | Type B | |  | c. | Type C | d. | Type D |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | Pages 34-35, Fire Extinguishers | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:17 AM | |

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| 18. \_\_\_\_ fire extinguishers are used for electrical fires.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Type A | b. | Type B | |  | c. | Type C | d. | Type D |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | Pages 34-35, Fire Extinguishers | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:18 AM | |

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| 19. A \_\_\_\_ is the symbol for a Type C fire extinguisher.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | green triangle | b. | red square | |  | c. | blue circle | d. | yellow star |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | Pages 34-35, Fire Extinguishers | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:19 AM | |

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| 20. \_\_\_\_ fire extinguishers are used for combustible metals such as zinc and magnesium.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Type A | b. | Type B | |  | c. | Type C | d. | Type D |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | Pages 34-35, Fire Extinguishers | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:20 AM | |

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| 21. If a nut or bolt is too tight to loosen with a wrench, \_\_\_\_.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | use a cheater bar | b. | use a longer wrench | |  | c. | use a smaller wrench | d. | cut the nut or bolt off |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | Page 37, Hand Tools | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:20 AM | |

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| 22. Welding cable must be spliced \_\_\_\_ the electrode holder.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | within 10 feet of | b. | more than 10 feet away from | |  | c. | within 20 feet of | d. | more than 20 feet away from |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | Pages 38-40, Electrical Safety | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:21 AM | |

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| 23. To test a grinding stone for cracks \_\_\_\_.   |  |  |  | | --- | --- | --- | |  | a. | tap the stone in four places and listen for a ring | |  | b. | visually inspect the stone | |  | c. | shine a light under the stone | |  | d. | wet the stone and look for bubbles |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | Page 42, Grinders | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:22 AM | |

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| 24. \_\_\_\_ are usually either hydraulic or flywheel operated.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Cut-off machines | b. | Shears | |  | c. | Power punches | d. | Band saws |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | Page 44, Metal Cutting Machines | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:22 AM | |

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| 25. The base of a ladder should be set out a distance equal to \_\_\_\_ the height to the point of support.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | one-fourth of | b. | half of | |  | c. | one and a half times | d. | twice |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | Page 46, Rules for Ladder Use | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:23 AM | |

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| 26. ​What is the most severe degree of a burn?   |  |  |  | | --- | --- | --- | |  | a. | ​1st degree | |  | b. | ​2nd degree | |  | c. | ​3rd degree | |  | d. | ​4th degree |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | Pages 22-23, Third-Degree Burns | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 12/29/2015 9:42 AM | | *DATE MODIFIED:* | 12/6/2016 10:24 AM | |

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| 27. Which light cannot be seen?   |  |  |  | | --- | --- | --- | |  | a. | ​Ultraviolet | |  | b. | ​Infrared | |  | c. | Visible | |  | d. | Spectral |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | Page 23, Burns Caused by Light | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 12/29/2015 9:46 AM | | *DATE MODIFIED:* | 12/6/2016 10:25 AM | |

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| 28. ​Light that bounces off of a wall or ceiling is referred to as\_\_\_\_\_\_\_\_\_.   |  |  |  | | --- | --- | --- | |  | a. | ​Refracted | |  | b. | ​Reflected | |  | c. | ​Radiated light | |  | d. | ​Full spectrum |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | Page 23, Burns Caused by Light | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 12/29/2015 9:50 AM | | *DATE MODIFIED:* | 12/6/2016 10:25 AM | |

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| 29. ​What are the two most common areas of a welder’s body that are burned by light?   |  |  |  | | --- | --- | --- | |  | a. | ​Face | |  | b. | ​Hands and arms | |  | c. | ​Neck and wrist | |  | d. | ​Ears and head |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | Pages 23-24, Burns Caused by Light | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 12/29/2015 9:51 AM | | *DATE MODIFIED:* | 12/6/2016 10:26 AM | |

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| 30. ​General work clothing must stop ultraviolet light and should be made of \_\_\_\_\_\_\_\_.   |  |  |  | | --- | --- | --- | |  | a. | ​100% nylon | |  | b. | ​100% cotton | |  | c. | ​Rayon cotton blend | |  | d. | ​Nylon rayon blend |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | Page 24, General Work Clothing | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 12/29/2015 9:52 AM | | *DATE MODIFIED:* | 12/6/2016 10:27 AM | |

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| 31. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ respirators are atmosphere-supplying respirators that admit breathing air to the facepiece only when a negative pressure is created inside the facepiece by inhalation.   |  |  | | --- | --- | | *ANSWER:* | Demand | | *POINTS:* | 1 | | *REFERENCES:* | Pages 29-30, Respiratory Protection | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:27 AM | |

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| 32. Most paints containing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ have been removed from the market; however, some industries, such as marine or ship applications, still use them.   |  |  | | --- | --- | | *ANSWER:* | lead | | *POINTS:* | 1 | | *REFERENCES:* | Pages 29-31, Respiratory Protection | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:28 AM | |

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| 33. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a metal used in large quantities in the manufacture of brass and is found in brazing rods.   |  |  | | --- | --- | | *ANSWER:* | Zinc | | *POINTS:* | 1 | | *REFERENCES:* | Pages 29-31, Respiratory Protection | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:29 AM | |

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| 34. Acetylene is absorbed in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.   |  |  | | --- | --- | | *ANSWER:* | acetone | | *POINTS:* | 1 | | *REFERENCES:* | Page 34, Acetylene | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:30 AM | |

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| 35. Highly combustible materials should be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ feet or more away from any welding.   |  |  | | --- | --- | | *ANSWER:* | 35  thirty-five  thirty five | | *POINTS:* | 1 | | *REFERENCES:* | Page 34, Fire Protection | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:33 AM | |

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| 36. Green hoses are to be used only for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.   |  |  | | --- | --- | | *ANSWER:* | oxygen | | *POINTS:* | 1 | | *REFERENCES:* | Page 36, Hoses | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:33 AM | |

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| 37. Electrical \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is lowered in the presence of water or moisture, so welders must take special precautions when working under damp or wet conditions.   |  |  | | --- | --- | | *ANSWER:* | resistance | | *POINTS:* | 1 | | *REFERENCES:* | Page 38, Electrical Safety | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:34 AM | |

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| 38. Amps is the abbreviation for amperes, which is a measure of electric \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.   |  |  | | --- | --- | | *ANSWER:* | current | | *POINTS:* | 1 | | *REFERENCES:* | Page 40, Voltage Warnings | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:35 AM | |

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| 39. A(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ will prevent an accidental separation of a tool cord from an extension cord during operation.   |  |  | | --- | --- | | *ANSWER:* | knot  cord connector | | *POINTS:* | 1 | | *REFERENCES:* | Page 41 Extension Cords | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:36 AM | |

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| 40. When a grinding stone wears down, keep the tool rest adjusted to within \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of an inch.   |  |  | | --- | --- | | *ANSWER:* | 1/16  one-sixteenth  one sixteenth | | *POINTS:* | 1 | | *REFERENCES:* | Pages 42-43 Grinders | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:36 AM | |

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| 41. ​Always follow the rules, and never engage in \_\_\_\_\_\_\_\_\_\_\_\_ or play “\_\_\_\_\_\_\_\_\_\_\_\_” while at work   |  |  | | --- | --- | | *ANSWER:* | ​horseplay, practical jokes | | *POINTS:* | 1 | | *REFERENCES:* | Page 21-22, Introduction | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 12/29/2015 9:53 AM | | *DATE MODIFIED:* | 12/6/2016 10:37 AM | |

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| 42. ​The abbreviation PPE stands for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.   |  |  | | --- | --- | | *ANSWER:* | ​Personal protection equipment | | *POINTS:* | 1 | | *REFERENCES:* | Page 24, Personal Protection Equipment (PPE) | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 12/29/2015 9:53 AM | | *DATE MODIFIED:* | 12/6/2016 10:38 AM | |

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| 43. ​Ventilated goggles that are vented adequately to prevent fogging and have lenses that meet \_\_\_\_\_\_\_\_\_\_\_ standards can be worn in place of safety glasses.   |  |  | | --- | --- | | *ANSWER:* | ​ANSI | | *POINTS:* | 1 | | *REFERENCES:* | Page 27, Goggles | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 12/29/2015 9:54 AM | | *DATE MODIFIED:* | 12/6/2016 10:39 AM | |

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| 44. ​Auto darkening welding helmets can be a tremendous help for new welders since they let you see where your electrode is and darken for welding within \_\_\_\_\_\_\_\_\_\_\_\_\_ of a second.   |  |  | | --- | --- | | *ANSWER:* | ​1/20000 | | *POINTS:* | 1 | | *REFERENCES:* | Page 28, Auto Darkening Welding Helmets | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 12/29/2015 9:55 AM | | *DATE MODIFIED:* | 12/6/2016 10:39 AM | |

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| 45. ​It is not safe to carry \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_ in any pocket while welding because they can catch fire or explode.   |  |  | | --- | --- | | *ANSWER:* | ​butane lighters or matches | | *POINTS:* | 1 | | *REFERENCES:* | Pages 24-25 General Work Clothing | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 12/29/2015 9:55 AM | | *DATE MODIFIED:* | 12/6/2016 10:40 AM | |

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| 46. What is an MSDS?   |  |  | | --- | --- | | *ANSWER:* | All manufacturers of potentially hazardous materials must provide to the users of their products detailed information regarding possible hazards resulting from the use of their products. These material safety data sheets are often called MSDSs. They must be provided to anyone using the product or anyone working in the area where the products are in use. Often companies will post these sheets on a bulletin board or put them in a convenient place near the work area. Some states have right-to-know laws that require specific training of all employees who handle or work in areas with hazardous materials. | | *POINTS:* | 1 | | *REFERENCES:* | Page 32, Safety Data Sheets (SDSs) | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:41 AM | |

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| 47. How does a fire extinguisher work, and how should it be used?   |  |  | | --- | --- | | *ANSWER:* | A fire extinguisher works by breaking the fire triangle of heat, fuel, and oxygen. Most extinguishers both cool the fire and remove the oxygen. They use a variety of materials to extinguish the fire. The majority of fire extinguishers found in welding shops use foam, carbon dioxide, a pump tank, or dry chemicals. When using a foam extinguisher, do not spray the stream directly into the burning liquid. Allow the foam to fall lightly on the base of the fire. When using a carbon dioxide extinguisher, direct the discharge as close to the fire as possible, first at the edge of the flames and gradually to the center. When using a dry chemical extinguisher, direct the extinguisher at the base of the flames. In the case of type A fires, follow up by directing the dry chemicals at the remaining material still burning. The extinguisher must be directed at the base of the fire where the fuel is located. | | *POINTS:* | 1 | | *REFERENCES:* | Pages 35-36, Using Fire Extinguishers | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:42 AM | |

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| 48. What is the difference between a tool with external grounding and a double-insulated tool?   |  |  | | --- | --- | | *ANSWER:* | A tool with external grounding has a wire that runs from the housing through the power cord to a third prong on the power plug. When this third prong is connected to a grounded, three-hole electrical outlet, the grounding wire will carry any current that leaks past the electrical insulation of the tool away from the user and into the ground. In most electrical systems, the three-prong plug fits into a three prong, grounded receptacle. The green (or green and yellow) conductor in the tool cord is the grounding wire. Never connect the grounding wire to a power terminal. A double-insulated tool has an extra layer of electrical insulation that eliminates the need for a three-prong plug and grounded outlet. Double-insulated tools do not require grounding and, therefore, have a two-prong plug. In addition, double-insulated tools are always labeled as such on their nameplate or case. | | *POINTS:* | 1 | | *REFERENCES:* | Page 40, Electrical Safety Systems | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:42 AM | |

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| 49. Describe how to test a grinding stone for cracks.   |  |  | | --- | --- | | *ANSWER:* | Before a grinding stone is put on the machine, it should be tested for cracks. This is done by tapping the stone in four places and listening for a sharp ring, which indicates it is good. A dull sound indicates that the grinding stone is cracked and should not be used. | | *POINTS:* | 1 | | *REFERENCES:* | Page 42, Grinders | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:43 AM | |

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| 50. Summarize the use of shears.   |  |  | | --- | --- | | *ANSWER:* | Shears work like powerful scissors. The correct placement of the metal being cut is as close to the pivot pin as possible. The metal being sheared must be securely held in place by the clamp on the shear before it is cut. If you are cutting a long piece of metal that is not being supported by the shear table, then portable supports must be used. As the metal is being cut it may suddenly move or bounce around; if you are holding on to it, this can cause a serious injury. | | *POINTS:* | 1 | | *REFERENCES:* | Page 44, Metal Cutting Machines | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 3/3/2015 9:24 AM | | *DATE MODIFIED:* | 12/6/2016 10:44 AM | |

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| 51. ​List special protective clothing made of leather that can be worn by welders.   |  |  | | --- | --- | | *ANSWER:* | ​Capes, jackets, aprons, sleeves, gloves, caps, pants, and knee pads | | *POINTS:* | 1 | | *REFERENCES:* | Page 25, Special Protective Clothing | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 12/29/2015 9:56 AM | | *DATE MODIFIED:* | 12/6/2016 10:45 AM | |