

# ARC FLASH HAZARD AWARENESS

## Post-Test

Date: \_\_\_\_\_ Age: \_\_\_\_\_ Gender: M F

Participant Identification: \_\_\_\_\_

(Month and day of birth, first and last initials, example John Doe was born on December 1, his identification would be: 1201JD)

Circle the most appropriate answer.

1. All 120-volt single-phase 15- and 20-ampere receptacle outlets in Part 1926 sites that are not part of the permanent wiring must have:
  - a. Waterproof covers
  - b. Ground fault circuit interrupters (GFCIs)
  - c. Kill switches
  - d. Fuses
  
2. Electric shock severity depends on:
  - a. What path the shock takes through the body.
  - b. How long the shock lasts.
  - c. Both a. and b.
  - d. None of the above
  
3. Live parts must be guarded to avoid accidental contact if operating at \_\_\_\_\_ volts or more.
  - a. 10
  - b. 35
  - c. 50
  - d. 150
  
4. Which of the following devices may be used for over-current protection?
  - a. Duplex outlet
  - b. Circuit breaker
  - c. Main disconnect
  - d. Ground rod
  
5. What is the minimum safe distance from energized overhead power lines?
  - a. 10 feet
  - b. 15 feet
  - c. 20 feet
  - d. 10 feet 6 inches
  
6. Currents greater than 75 milliamps can cause:
  - a. Tingling sensation
  - b. Slight shock
  - c. Burnt tissue
  - d. Ventricular fibrillation

7. What creates the pressure of an arc blast?
  - a. The expansion of the metal as it vaporizes.
  - b. The size of the space the electrical equipment is located in.
  - c. The heating of air by the arc energy.
  - d. Both a. and c.
  
8. Arc blast / Arc flash is the cause of most electrically related accidents and fatalities among:
  - a. Maintenance workers
  - b. Qualified workers
  - c. Unqualified workers
  - d. Equipment operators
  
9. Typical arc flash PPE consists of:
  - a. Flash suit
  - b. Hood
  - c. Gloves and leather protectors
  - d. All of the above
  
10. The temperature of an arc flash can potentially reach?
  - a. 12,000°F
  - b. 17,000°F
  - c. 25,000°F
  - d. 35,000°F
  
11. The effects of an arc flash include:
  - a. Molten metal splatter
  - b. Damaging noise levels
  - c. High pressure forces
  - d. All of the above
  
12. An approach limit at a distance from exposed live parts within which a person could receive a second degree burn if an electrical arc flash were to occur is called the:
  - a. Limited approach boundary
  - b. Shock hazard boundary
  - c. Flash protection boundary
  - d. Electrical hazard area
  
13. What is the best way to prevent arc flash injuries?
  - a. Always wear the proper PPE
  - b. Arc flash injuries can never be completely eliminated
  - c. Check the circuit for evidence of circuit overload
  - d. De-energize equipment before starting to work on the equipment
  
14. A lock and tag must be removed by whom?
  - a. The worker who is authorized
  - b. Any employee in the area
  - c. Any worker who will work on the machine
  - d. None of the above