ARC FLASH HAZARD AWARENESS

Post-Test Answer Key

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