

Electrical Safety for Emergency Responders

Quiz Answers

True/False

1. Emergency responders should wait for a utility company representative to arrive before responding to a substation fire.
TRUE FALSE
2. Do not touch any vehicle or apparatus that is in contact with electrical wires since contact can result in electric shock.
TRUE FALSE
3. Straight streams from fire hoses are encouraged when energized electrical equipment is encountered.
TRUE FALSE
4. Care must be exercised when raising and lowering ladders, hose lines or equipment near overhead lines.
TRUE FALSE
5. Proceed carefully in an area where wires are down and be aware of any tingling sensations felt in the feet.
TRUE FALSE
6. Voltage decreases as the distance from the point of contact increases.
TRUE FALSE
7. Step potential is created when current from a downed power line makes direct contact with the ground.
TRUE FALSE
8. Burning wire insulation emits smoke that is non-toxic.
TRUE FALSE
9. There is never a hazard risk in low-voltage conditions.
TRUE FALSE

Multiple choice

10. Electricity is always seeking:
A - New power sources
B - Higher elevation
C The path of least resistance to the ground
D - None of the above

11. Electric meters are not to be:
 - A - Hard-wired
 - B - Read
 - C - Removed**
 - D - Mounted

12. A portable fire extinguisher used on energized electrical equipment must be rated Class:
 - A - A
 - B - B
 - C - C**
 - D - D

13. The coating on wire conductors is considered:
 - A - Protection against electric shock
 - B - Weatherproofing**
 - C - Electromagnetic field-shielding
 - D - None of the above

14. The hazard in a substation is:
 - A - Large amounts of oil
 - B - High voltage
 - C - Porcelain insulators
 - D - All of the above**

15. An emergency response vehicle should be located:
 - A - Under damaged lines or equipment
 - B - Next to the utility pole nearest to damaged lines or equipment
 - C - Two full spans or three poles away from damaged lines or equipment**
 - D - None of the above

16. Emergency responders are required to have anyone who has received an electric shock to:
 - A - Go home and rest
 - B - Go to local drug store for medication
 - C - Go to a hospital for observation**
 - D - None of the above

17. The safe distance from a contact point of downed distribution wires or electrical equipment is:
 - A - 15 Feet
 - B - 20 Feet
 - C - 30 Feet**
 - D - None of the above

18. The safest course of action for a line down on a vehicle:
 - A - Stay in vehicle**
 - B - Pull wire from vehicle with non-conducting tool
 - C - Drive away
 - D - Put on insulated boots