

Electrical Safety for Emergency Responders Quiz

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 is:
 - A - Stay in vehicle
 - B - Pull wire from vehicle with non-conducting tool
 - C - Drive away
 - D - Put on insulated boots