

## Electrical Safety for Emergency Responders Quiz

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### 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