



Electrical Measurement Safety

Testing on Fluke Safety Video.

1. It is Safe to use a meter in a high-energy environment as long as it is certified by the manufacturer.
True or False
2. The available fault current in CATIII and CAT IV environments can be as high as 100,000 amps.
True or False
3. Transients are extremely rare because they only occur when lightning directly strikes a nearby power line.
True or False
4. When two arcs join, they create either a phase-to-phase or phase-to-earth fault.
True or False
5. Most industrial and commercial electricians work in the following environments?
 - a. CAT I & CAT II
 - b. CAT II & CAT IV
 - c. CAT III & CAT IV
 - d. CAT IV & CAT V
6. Some permanently installed loads can create their own transients.
True or False
7. Which category covers 120 Volt plug-in branch receptacles?
 - a. CAT I
 - b. CAT II
 - c. CAT III
 - d. CAT IV
8. You can significantly reduce your chance of an accident by following which of the following steps?
 - a. Plan your work carefully
 - b. Follow safe measurement procedures
 - c. Use the right equipment
 - d. All of the above

Date_____

Name_____

9. Which category covers 480 volt motor control centers at the breaker?
 - a. CAT I
 - b. CAT II
 - c. CAT III
 - d. CAT IV

10. Which category covers 600 Volt underground cable-runs or areas outside the building installations?
 - a. CAT I
 - b. CAT II
 - c. CAT III
 - d. CAT IV

11. The safest place to measure voltage on a breaker panel is where the highest energy is available.
True or False

12. Which category covers protected electronic circuit boards?
 - a. CAT I
 - b. CAT II
 - c. CAT III
 - d. CAT IV

13. Personal Protective Equipment (PPE) includes which of the following...
 - a. **Eye and Hearing protection**
 - b. **Gloves**
 - c. **Clothing**
 - d. **Insulating Mats**
 - e. **All of the Above**

14. You should always try to keep one hand in your pocket or behind you when taking measurements in a high-energy environment?
True or False

15. When taking single-phase measurements, it doesn't matter which of the leads you connect first.
True or False