9 tools that help protect electrical workers

1. **Noncontact Infrared Thermometers**
   Among the simplest noncontact test tools to use—stay off ladders, away from heat.

2. **Visual Infrared Thermometers**
   Create digital infrared heat map of the inspection target from up to 10 ft. away.

3. **Infrared Cameras**
   A highly informative thermal image without making contact with equipment.

4. **Infrared Windows**
   Inspect energized components with the panel door closed.

5. **Laser Distance Meters**
   Noncontact measurements of up to 200 ft (61 m) from the floor.

6. **Noncontact Voltage Detectors**
   Help verify that a panel, circuit or device is de-energized before touching.

7. **Remote Display Multimeters**
   Inspect motor, other energized components from up to 30 ft. (9 m) away.

8. **Wireless Test Tools and Software**
   Electrical, thermal, vibration measurements from 60 ft. (18 m) and shared anywhere.

9. **Proving Units**
   Portable sources of a verified voltage can satisfy some elements of 2015 NFPA 70E 110.4(B)(5).

These test tools help create a safer and more efficient work environment by moving the technician or electrician further away from the electrical hazard.

Evolving to a Safer Future
Wireless tools and their corresponding software are continuing to evolve. With some wireless tools, technicians can view measurements in real time on their phones, laptops or tablets and share those results with team members in multiple locations. Measurement data also can be stored securely in the cloud and accessed by authorized users next time they’re on-site, allowing for better decision-making on the fly. That’s the true source help identify problems while they are small and easily correctable.

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