

# UNIT 26

## GFCIs, GFPEs, AFCIs, AND SPDs

### 26.1 Introduction

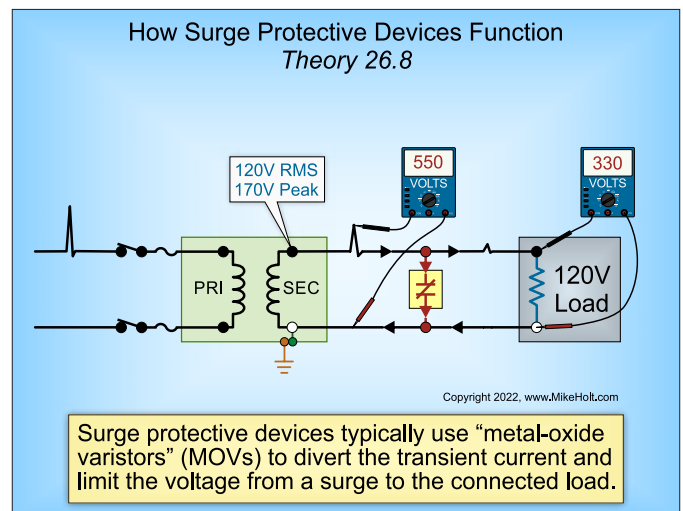
In addition to overcurrent protection of electrical circuits, electronic devices with the technology to protect against electric shock and fire are used in the electrical system. In this unit you will learn:

- ▶ what a ground-fault circuit interrupter is
- ▶ what an arc-fault circuit interrupter is
- ▶ what ground-fault protection of equipment is
- ▶ what a surge protective device is

### 26.8 How Surge Protective Devices Function

Surge protective devices are connected in parallel with the load and typically use “metal-oxide varistors” (MOVs) to divert transient current and limit the voltage from a surge to the connected load. MOVs function by changing the impedance from open to closed to clamp transient voltage and current pulses to protected equipment from transient voltages.

▶Figure 26-17



▶Figure 26-17