



Occupational Electricity Safety

Wednesday November 28: 8:00 - 5:00

This interactive course will be of value to everyone from a handyman homeowner to a licensed electrician. This is primarily a safety training that begins with basic electrical theory and explores the various wiring methods likely to be encountered by anyone working on both residential dwellings and commercial occupancies. It's intended to explain the "how" and "why" of electrical system construction, component function, and associated hazards.

- Basic Electrical Theory
- Magnetism and Reactive Forces
- Induction Lab
- Shock Hazards
- Electrical Protective Schemes
- Grounding and Bonding
- Overcurrent Protection
- Standards for Electrical Safety
- Arc Flash Protection & PPE
- National Electrical Code
- Disconnecting Means
- Solar PV Systems and Batteries

Cost: \$125. Approved for 8 hours CE credit from the Montana State Electrical Board.

Digital Multimeters in Practice

Thursday November 29: 8:00 - 5:00

This hands-on workshop is for anyone who wants to learn about digital multimeters. An assortment of meters will be handled in the labs and included in 21 separate lab exercises. This course explores technical aspects of electrical theory and meter functions, but is designed to make multimeters and the most technical parts of electrical systems accessible to all participants.

- Basic DC and AC theory
- NEC and NFPA 70E: General Requirements
- Resistance Measurement Lab
- AC Voltage, Ohm's Law, & Power Formula
- Overcurrent Protection, Grounding & Bonding
- Power Factor & Harmonic Distortion
- Measuring Frequency & Duty Cycle
- Ohm's Law & Power Formula
- GFCI & Ghost Voltage Labs
- Capacitor & LED Labs
- Min/Max Readings
- Analog versus Digital Meters
- Auto-Ranging Meters
- Diode & Capacitor Testing

Cost: \$175. Approved for 8 hours CE credit from the Montana State Electrical Board.

The instructor for both courses is Master Electrician **Mitch Hegman**.

Learn more, or register for this workshop, with the *Montana Weatherization Training Center*.

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