



## Understanding Electric Controls and Accessories Syllabus

**Description:** This 3-day class is designed for beginner to intermediate technicians to understand HVAC electrical circuits, diagrams, and troubleshooting methods. There will be a mix of classroom and hands-on training so that students can practice what they are learning.

**Level of Student:** Beginner to Intermediate

**Tuition:** Includes registration, course materials and lunch.

### Objectives:

- Understand electrical circuits in the HVAC industry
- Improve competency in proper electrical diagnostics
- Understand electron theory, AC/DC circuits and power generation
- Applying Ohms Law in HVAC circuits
- Understanding motors and compressors
- Understand how to troubleshoot ladder and pictorial diagrams
- Use ladder diagrams to understand sequence of operation
- Understand electrical & meter safety
- Understand hands on wiring and troubleshooting
- Use hopscotch method to troubleshoot electrical circuits

### Course Content:

- Segment 1: Electron Theory
- Segment 2: HVAC Electrical Components
- Segment 3: Troubleshooting & Safety

To register for this class, visit HBTI's website [www.hvacinstitute.com](http://www.hvacinstitute.com) or call the office at (253) 638-7797.