

# ELECTRICAL FUNDAMENTALS TRAINING



For

- Facility Operators & Managers
- Information Technology Staff
- Anyone in need of basic electrical knowledge

What

This training course is an introduction to basic concepts of electricity. It will include hands-on activities, such as assembling low-voltage electrical circuits, working with small sensors and actuators on a breadboard, and using a multimeter to test electrical properties.

Cost

**\$620**

Includes:

- "AC/DC Principles and Applications" textbook •
- Arduino Starter Kit •

Topics

- |                                     |                                                 |
|-------------------------------------|-------------------------------------------------|
| Atomic Structure and Charge         | Kirchoff's Law                                  |
| Electrical Safety                   | Conductors and Insulators                       |
| AC / DC Current                     | Electromagnetism                                |
| Electrical Units                    | DC Electrical Circuits, Parallel, Series, Mixed |
| Current/ Resistance/ Voltage/ Power | Electrical Property Measurements                |
| Ohm's and                           |                                                 |

Dates

**18 Sessions**

Aug 1<sup>st</sup> - Dec 12<sup>th</sup>

**Thursday Afternoons**  
**1 - 5 PM**