

Basic Electronics

Who should attend?

This course is designed for employees who have had little to no experience with basic electronics, or for those employees who would like a refresher course on basic electronics.

Course Benefits

Learn how electronic circuits and components work, including systems used in Applied Materials' products.

Improve your understanding of how electronic devices are used to create sophisticated and beneficial technology for various applications.

Course Objective Summary

- Define the concepts of voltage, current, and resistance
- Define and use Ohm's Law
- Describe the difference between an open and a short circuit
- Describe the difference between series and parallel connections
- Define alternating current (AC) and direct current (DC)
- Identify and describe resistors, capacitors, and inductors
- Identify fuses and circuit breakers and describe their function and applications
- Identify and describe the function of diodes, transistors, optoelectronic devices, silicon-controlled rectifiers, and operational amplifiers
- Describe automatically controlled systems and their functions
- Describe basic analog and digital signals

Course Modules

1. *Defining Basic Electronic Concepts*
2. *Common Electronic Components*
3. *Electronic Control Systems*

Registration Information

Prerequisites: None
Course Length: 2 Hours
Course Type: Web-Based Training
Course Number: TRAW1404b

To enroll or for more information on our products and services, please call our registrar at one of the numbers below or go to www.appliedtraining.com.

- 1-800-468-8888, option 4 (United States)
- 1-512-272-0027 (International)

Computer System Requirements:

Attending this course requires a computer using Internet Explorer 5.5 or higher with the plug-in for Flash Player 9. For the audio portion of the class, headsets or speakers are required. 128MB RAM or higher, high-speed Internet access and a screen resolution of 1024 x 768 are also highly recommended.