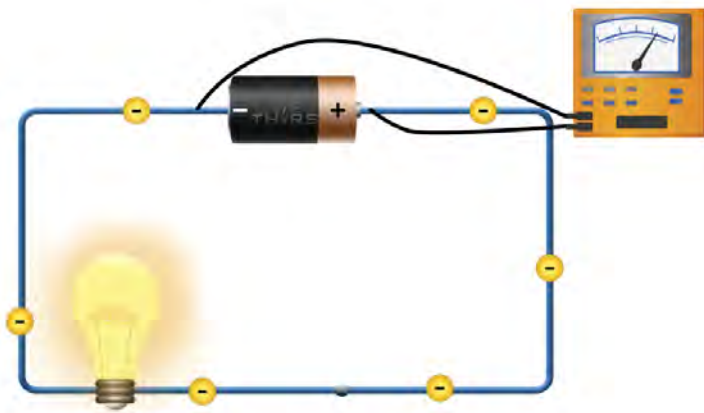


ELECTRICAL POWER INTRODUCTION

eLearning courses designed to increase productivity and profits



Learning made Simple, Visual, and Interactive

Electrical Power Introduction is designed to help learners understand the basic concepts of electricity and the harnessing of electrical power. With a format full of animations and interactive quizzing, this course brings the important concepts and terminology associated with electricity to life in a visually appealing way. This course may be relevant to quality, manufacturing, engineering, designing, purchasing, and sales functions at organizations that require an understanding of basic electricity.

Credit Hours **0.75**

Learning Objectives

- 💡 Recall what takes place at the atomic level during the transfer of electrical energy.
- 💡 Recognize the concepts of electric potential and the definition of a circuit.
- 💡 Be able to differentiate between voltage, current, and resistance.
- 💡 Understand the differences between AC and DC current, and single and three-phase power.
- 💡 Display the ability to make simple calculations using basic electrical laws.

Table of Contents

I. What is Electricity?

II. Applied Concepts

- Circuits
- Voltage
- Current
- Resistance

III. Electrical Power

- AC vs. DC
- Phases of Power
- Transformers
- Ground vs. Neutral

IV. Electrical Laws and Components

- Ohm's Law
- Kirchhoff's Current Law
- Kirchhoff's Voltage Law
- Components

