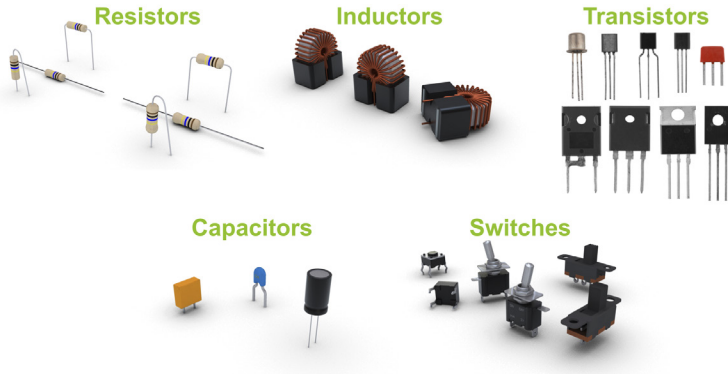


# ELECTRONICS TERMINOLOGY [2ND ED.]

*eLearning courses designed to increase productivity and profits*



## Learning made Simple, Visual, and Interactive

The evolution of electronics has propelled technological development forward. With the growing importance of electronics, there is also an increasing need for the knowledge of electronics and their application. The THORS Electronics Terminology [2nd Ed.] is created with the purpose to educate learners on the basic electronic components, working principles, electronic circuits, connectors, power converters, and its operation in a visually pleasing and highly interactive learning module.

Credit Hours **2.5**

## Learning Objectives

- 💡 Differentiate between passive, active, and electromechanical components.
- 💡 Identify the symbols used for different types of electronic components.
- 💡 Recognize the applications of various electronic components in a circuit.
- 💡 Explain the working principle of various electronic components.
- 💡 Identify the components and understand the working principles associated with electronic circuits.

## Table of Contents

### I. Electronic Components

- **Passive Components**
  - ▣ Resistor
  - ▣ Capacitor
  - ▣ Inductor
  - ▣ Transformer
- **Active Components**
  - ▣ Diode and Rectifier
  - ▣ Transistor
  - ▣ Other Components

### I. Electronic Components (continued)

- **Electromechanical Components**
  - ▣ Switch
  - ▣ Relay
  - ▣ Solenoid
  - ▣ Buzzer

### II. Electronic Circuit

- **Integrated Circuit**
  - ▣ Analog IC
  - ▣ Digital IC
- **Printed Circuit Board**

### II. Electronic Circuit (continued)

- **Connector**
  - ▣ Power Connector
  - ▣ Signal Connector
- **Power Converter**
  - ▣ AC to DC Converter
  - ▣ DC to AC Converter
  - ▣ AC to AC Converter
  - ▣ DC to DC Converter
- **Working Principle**
  - ▣ Analog Signal
  - ▣ Digital Signal
  - ▣ Radio Frequency Signal
  - ▣ Digital Logic

