# **Solenoid Basics**

# eLearning courses designed to increase productivity and profits



# Learning Made Simple, Visual, and Interactive

The THORS *Solenoid Basics* course introduces learners to the various components of a solenoid, their characteristics, and solenoid classification. This course also explains the working principle of a solenoid along with the different characteristics that affect solenoid operation.

Credit Hours 1.5

## Learning Objectives

- arphi Identify the different components that make up a solenoid along with their functions.
- Understand the classification of solenoids.
- Define the overall working principle of a solenoid.
- Describe the different characteristics of a solenoid.
- Analyze the characteristics that influence solenoid operation.

## **Table of Contents**

### I. Solenoid Concepts

- Components
  - Coil
  - Core
    - Classification Based on Material
    - Classification Based on Laminations
  - Plunger
- Classification
  - Based on Input Power Supply
    - AC Solenoid
    - DC Solenoid
  - Based on Output Motion

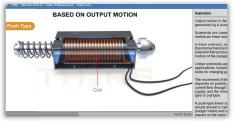
#### **II. Solenoid Operation**

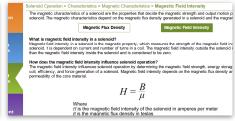
- Working Principle
- Characteristics
  - Magnetic Characteristics
  - Electrical Characteristics
  - Structural Characteristics













sales@thors.com 1 (330) 576 4448