

# Electronic Counter Training | eLearning Course

**Timers and Counters - WX17405-XJ15JEN-E1**

Objective 3: Describe the Function of Two Types of Counters and Give an Application of Each

**Counter Application**

An application for a countdown counter is part counting.

Here, a spring machine is making **compression** springs. A **limit switch** detects the metal cutter each time a spring is cut off. Every time the switch is actuated, the counter reduces its count by one.

The machine must drop 10 springs into each box. Therefore, the operator will set the counter to 10.

When the counter reaches zero, the machine stops and a red light comes on to notify the operator to change the box and reset the counter. This allows the operator to watch several machines at the same time.

Click here to see an example of part counting.

AMATROL Page 15 of 28

## eLearning Course: M17405

Amatrol's Multimedia Courseware - Electronic Counter (M17405) teaches learners essential electronic counter concepts applicable throughout modern industry. Electric relay control of AC electric motors is essential in a wide variety of industrial, commercial, and residential applications. Learners using Amatrol's electronic counter eLearning course study a variety of topics related to timers and counters used in conjunction with motor control circuits.

## In-Depth Electronic Counter Curriculum

### Comprehensive Electronic Counter Curriculum Connected to Real-World Skills

Amatrol's electronic counter eLearning course covers important topics, such as:

#### One-Shot Timer Operation

Learners begin with an introduction to one-shot timer operation. Individual lessons focus on topics like the operation and applications of one-shot timers. Learners will also practice skills, such as connecting and operating a timed one-shot time delay relay, troubleshooting a timed one-shot motor control circuit, and designing a timed one-shot motor control circuit.

#### Repeat Cycle Timer Operation

Learners will study the basic principles of repeat cycle timer operation. Individual lessons focus on topics like the operation and applications of repeat cycle timers. Learners will also practice skills, such as connecting and operating a repeat cycle time delay relay, troubleshooting a timed repeat cycle motor control circuit, and designing a timed repeat cycle motor control circuit.

#### Counters

Learners using Amatrol's electronic counter eLearning course will study basic principles of counters. Individual lessons focus on topics like types of counters and their ladder diagram symbols. Learners will also practice skills,

such as connecting and operating an up counter and designing a motor control circuit using a counter to count operations.

## **Interactive eLearning with Learning Management System**

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### **Highly-Interactive Multimedia Format Appeals to All Learning Styles**

Amatrol's electronic counter eLearning course features interactive eLearning curriculum that integrates various types of learning methods to create an engaging, effective learning experience. Amatrol's multimedia [eLearning](#) curriculum includes text with voiceovers, videos, 3D animations, pictures, and interactive activities, quizzes, and self-reviews.

### **Free Learning Management System (LMS)**

Amatrol eLearning is easy-to-use for both students and instructors. Its web-based interface is simple to navigate and available on any WebGL-compatible Internet browser. Instructors love Amatrol eLearning for its simple, yet sophisticated Learning Management System (LMS). The LMS allows instructors to create custom courses, monitor student participation, track course progress, assess knowledge levels prior to a course, and test knowledge levels after completion. Learners appreciate the fact that they can start and stop as needed, moving through each Amatrol course at their own pace. If a self-review reveals that they didn't understand a particular topic as well as they thought they did, they can revisit it before moving on.

## **Additional Info**

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### **Requires:**

- Computer (see [Computer Requirements](#))

### **Options:**

- Electronic Counter Learning System (85-MT5E)

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### **Address**

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