

# Programming PLC Timer and Counter Instructions | eLearning Course

Application Development - WB764-DA01XEN-E1

Objective 2: Describe the Operation of a PLC Program with Manual and Automatic Modes

### Operation of Automatic/Manual Mode Selection

This graphic shows the condition of the program when 2SS is in the Auto position. This causes I:0/5 on rung 1 to go true and I:0/6 on the branch of rung 2 to go false.

Now pressing 1PB will cause the automatic cycle to start. Pressing 3PB will not affect the program because I:0/6 is false.

Step 3 of 3

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## eLearning Course: MB764

Amatrol's Computer Control 2 eLearning course (MB764) teaches users more advanced mechanics of PLC programming, including stop functions, timer instructions, counter instructions, and time-driven sequencing.

## Teach PLC Design Techniques and Instructions

### Advanced PLC Programming Skills

Amatrol's Computer Control 2 eLearning course (MB764) covers more advanced topics of PLC programming, such as application development, PLC timer instructions, and PLC counter instructions. Learners will be taught the seven step process of designing a PLC program, including writing a general sequence of operation, drawing power and I/O diagrams, and writing a truth table.

### Timer and Counter Instructions

Through this course, users will learn about retentive and non-retentive timer instructions, on-delay and off-delay, and OTL and OTU instructions. Learners will use this knowledge to complete several design exercises, such as creating programs for an electric motor, an actuator, a plastic injection molding machine, and a clamp and drill application.

## Interactive eLearning

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

Amatrol's Computer Control 2 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:**

- Computer Control 2 Learning System (96-CT2)
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#### **Address**

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