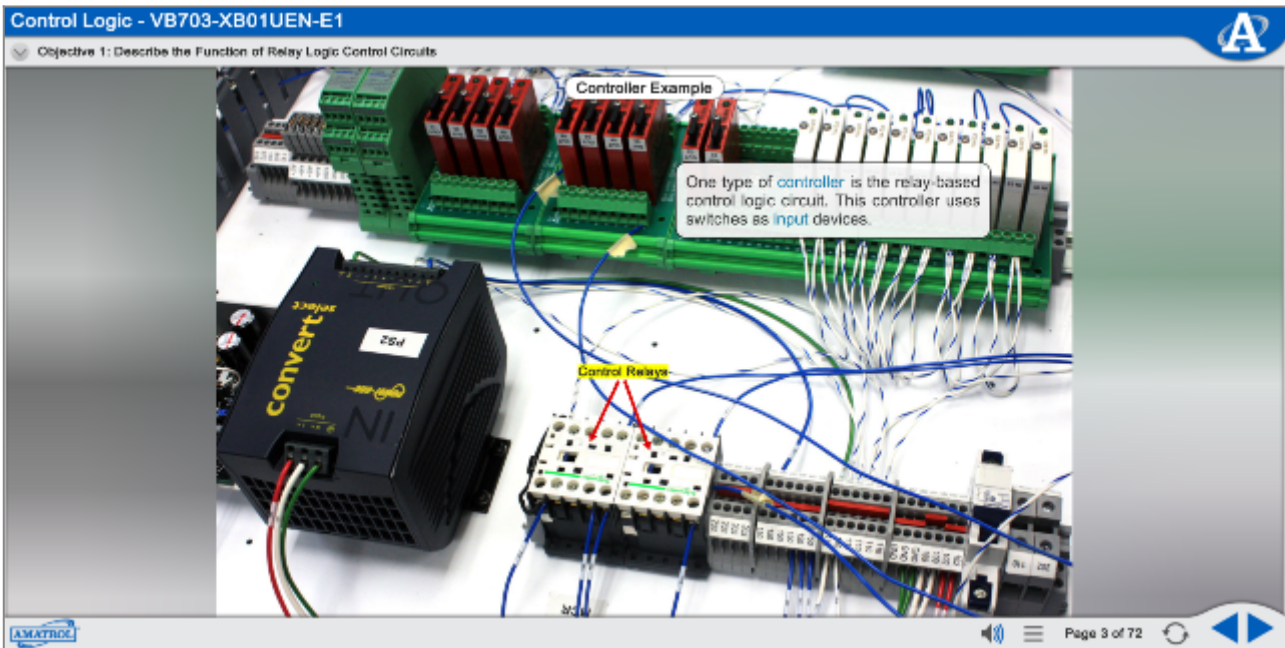


# Electrical Relay Control Training | eLearning Course



## eLearning Course: NB703

Amatrol's Virtual Trainer Courseware - Electrical Control 1 (NB703) eLearning course introduces the functions of relay logic control circuit skills used in industrial, commercial and residential applications. Describing functions and application of functions covered in control logic include logic elements, such as AND, OR, NOT, NOR, and NAND. Ladder diagrams are explained and learners connect, operate, and design a ladder diagram using one or more logic elements. Additional concepts include electro-pneumatic solenoid valves; sequencing control including relay operation, relay application, limit switch operation and application; and timers and advanced systems including time-delay relays, multiple cylinder control, and machine modes of operation.

## Interactive eLearning with Learning Management System

### Interactive Electrical Control eLearning Curriculum

Amatrol's electrical relay control 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. Specific electrical relay control topics covered include: logic elements; ladder diagrams; electro-pneumatic solenoid valves; relay operation and applications; limit switch operation and applications; time-delay relays; multiple cylinder control; and machine modes of operation. Within these topics, learners will study objectives like connecting and operating a logic circuit given a ladder diagram; designing a ladder diagram using one or more logic elements; connecting and operating a relay to perform a seal-in function; designing a logic circuit that uses a limit switch to sequence an event; connecting and operating a two-pushbutton jog circuit that will jog two cylinders independently; and designing a continuous-cycle, synchronized cylinder circuit with a manual mode.

### 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.

## Virtual Simulator

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### This course includes a virtual simulator!

Amatrol's electrical relay control eLearning course also features a virtual simulator that allows learners to practice hands-on skills even when they don't have access to a physical trainer. Virtual simulators replicate hands-on equipment in such great detail that learners will feel like they are using actual equipment. Learners perform essentially the same industry-based tasks using the virtual equipment that they would perform using equipment hardware. Virtual simulators offer instructors and learners great flexibility when learning remotely or when a physical trainer must be shared by multiple learners.

**NOTE:** Amatrol also offers the Multimedia Courseware - Electric Relay Control (M16727), which features the same eLearning curriculum without the virtual simulator.

## Additional Info

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### Requires:

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

### Options:

- Electrical Control 1 Learning System (96-ECS1)

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### Address

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### Contacts

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