VFD & PLC Wiring Training | eLearning Course

eLearning Course: M17461

Amatrol's Multimedia Courseware - PLC/VFD Wiring (M17461) teaches VFD/PLC wiring topics, such as PLC and VFD installation; wiring a PLC in an electrical enclosure; VFD motor control; and wiring a VFD and a PLC in an electrical enclosure. Within these topics, learners will study objectives like installing a PLC into an electrical enclosure; wiring and operating a forward/reverse motor control system that uses PLC discrete I/O; and wiring and operating a VFD/PLC motor control system that uses MODBUS communications.

In-Depth VFD & PLC Wiring Curriculum

Comprehensive VFD/PLC Wiring Curriculum Connected to Real-World Skills
Amatrol's VFD/PLC wiring eLearning course covers important topics, such as:

PLC and VFD Installation

Learners begin with an introduction to PLC/VFD wiring systems, including PLC and VFD installation. Individual lessons focus on the elements of a panel installation drawing package, how to mount a programmable controller in an enclosure, and how to mount a VFD in an electrical enclosure. Learners will also practice skills, such as installing a PLC and a VFD into an electrical enclosure.

Wiring a PLC in an Electrical Enclosure

Learners will eventually advance to more complex wiring curriculum, including wiring a PLC in an electrical enclosure. Individual lessons focus on how to wire and test PLC ground and a MCR circuit, how to wire PLC discrete inputs and outputs, and how to test and startup a PLC installation. Learners will also practice skills, such as wiring and test PLC power and MCR circuits in an electrical enclosure, wiring and testing PLC control and I/O wiring circuits in an electrical enclosure, and wiring and operating a forward/reverse motor control system that uses PLC discrete I/O.

VFD Motor Control

In this module, learners will gain experience working with motor control topics, including VFD motor controls. Individual lessons focus on how to wire ground, power, and motor circuits to a VFD, how to interface a VFD with PLC discrete I/O, and how to test and start-up a VFD installation. Learners will also practice skills, such as wiring supply power and ground to a VFD in an electrical enclosure, wiring and operating a motor control system using VFD/PLC discrete I/O, and wiring and operating an interlocked motor to a VFD motor control system.

Wiring a VFD and PLC in an Electrical Enclosure

To conclude the module, learners will study wiring a VFD and PLC in an electrical enclosure. Individual lessons focus on how to both interface and operate a VFD using MODBUS. Learners will also practice real-world skills, like wiring and operating a VFD/PLC motor control system that uses MODBUS communications.

Interactive eLearning with Learning Management System

Highly-Interactive Multimedia Format Appeals to All Learning Styles
Amatrol's VFD/PLC wiring 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

Requires:

- Computer (see Computer Requirements)

Options:

- VFD/PLC Wiring Learning System (85-MT6BA)

Address

Amatrol
2400 Centennial Blvd
Jeffersonville, IN 47130

Contacts

email: contact@amatrol.com
phone: (800) 264 8285