

# Electrical Power Distribution Training | eLearning Course



## eLearning Course: M17471

Amatrol's Multimedia Courseware - Electrical Power Distribution (M17471) teaches learners essential electrical power distribution concepts and skills applicable throughout modern industry. Installing, operating, repairing, and designing equipment for modern industry requires fundamental knowledge of electrical wiring and components. Learners using Amatrol's electrical power distribution eLearning course begin by studying raceways, conductors, and disconnects. From these building blocks, learners begin practicing industry-relevant electrical power distribution skills, like conduit sizing, wire pulling techniques, and basic conduit bending.

## **In-Depth Electrical Power Distribution Curriculum**

### **Comprehensive Electrical Power Distribution Curriculum Connected to Real-World Skills**

Amatrol's electrical power distribution eLearning course covers important topics, such as:

#### **Introduction to Raceways**

Learners begin with an introduction to raceways, including EMT conduit cutoff and preparation, conduit bodies and boxes, and conduit fittings. Individual lessons focus on topics like the basic parts of a wiring system, types of vises, conduit fittings, and connectors. Learners will also practice skills, such as cutting EMT conduit to length using a hacksaw, deburring conduit, and connecting EMT between two boxes.

#### **Basic Conduit Bending**

Learners will study the basics of conduit bending, including conduit benders and offset bends. Individual lessons focus on topics like common methods used to bend conduit, types of benders, and the components of an offset bend. Learners will also practice skills, such as determining the take-up of a hand bender, laying out and bending EMT with proper leg length and stub-up, and determining and locating the bend centers of an offset bend.

#### **Advanced Raceways**

Learners using Amatrol's electrical power distribution eLearning course will study basic principles of advanced

raceways, including IMC conduit bending and assembly and flexible conduit. Individual lessons focus on topics like tools used to cut intermediate metallic and rigid conduit, components of mechanical benders, and connectors and couplings used with IMC, rigid, and flexible metal conduit. Learners will also practice skills, such as changing the shoe of a mechanical bender, threading IMC conduit, and connecting and coupling IMC given an application.

### **Conductors, Disconnects, and Overcurrent Protection**

Learners will study various aspects and components of conductors, disconnects, and overcurrent protection. Individual lessons focus on topics like conductor ampacity, types of disconnects, and the function of overcurrent protection. Learners will also practice skills, such as selecting wire size and type for an application, selecting a disconnect for an application, and selecting circuit protection for an application.

### **Conduit Sizing and Wire Pulling Techniques**

Learners using Amatrol's electrical power distribution eLearning course will study various aspects of conduit sizing and wire pulling techniques, including raceway specification, electrical box selection, conductor pulling, and power distribution system installation. Individual lessons focus on topics like methods used to select raceway diameter, how to select the correct size electrical box, methods used to pull conductors, and the function of bus bars and bus plugs. Learners will also practice skills, such as determining conduit size when conductors are of different size and/or types, determining electrical box size when conductors are of different sizes, pulling conductors using fish tape, and connecting a bus plug to a bus bar.

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

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

Amatrol's electrical power distribution 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:**

- Electrical Power Distribution Learning System (85-MT7B)

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**Address**

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