Electrical Fabrication Training | eLearning Course

eLearning Course: M12204

Amatrol’s Multimedia Courseware – Electrical Fabrication 1 (M12204) teaches learners essential electrical fabrication 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 fabrication eLearning course begin by studying basic electrical system wiring. From this building block, learners begin practicing industry-relevant electrical fabrication skills, such as interpreting wire installation plans and installing basic components like switches, outlets, and lighting.

In-Depth Electrical Fabrication Curriculum

Comprehensive Electrical Fabrication Curriculum Connected to Real-World Skills

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

Introduction to Electrical Wiring

Learners begin with an introduction to electrical wiring, including electrical terms, safety, wire stripping and termination techniques, and power cord installation. Individual lessons focus on topics like the basic components of an electrical circuit, types of wiring terminals, and the function of 3-wire AC circuits and electrical plugs. Learners will also practice skills, such as stripping insulation from wires using a stripping tool, installing a spade-lug connector on a wire, and connecting an AC plug to an electric cord.

Residential Wiring System Components

Learners will study the components and operation of residential wiring systems, including wiring systems and installation of nonmetallic cables, switches, and outlets. Individual lessons focus on topics like electrical junction boxes, wiring installation plans, common grounding methods, and electrical outlet connections. Learners will also practice skills, such as interpreting a wiring installation plan, running nonmetallic cable between electrical boxes, and installing outlets and switches in junction boxes.

Service Connection and Circuit Protection

Learners using Amatrol’s electrical fabrication eLearning course will study basic principles of service connection and circuit protection, including installation of lighting and 3-way switch lighting circuits. Individual lessons focus on topics like common methods for splicing wires, connecting a service panel to the service entrance, and the operation of fuses and circuit breakers. Learners will also practice skills, such as installing and connecting an incandescent light fixture, connecting a wiring system to a service panel, and installing and connecting a 3-way switch lighting circuit.

Interactive eLearning with Learning Management System

Highly-Interactive Multimedia Format Appeals to All Learning Styles

Amatrol's electrical fabrication 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:

- Electrical Fabrication 1 Learning System (990-ELF1)

Address

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Contacts

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