Amatrol’s Electrical Wiring Learning System (85-MT6) introduces learners to the basics of electrical wiring, such as wire termination, wire sizing, conduit sizing, terminal block installation, and wire splicing, as well as how to read and create electrical prints. Amatrol’s philosophy of presenting learners with the theories behind specific topics while they practice corresponding real-world tasks both expands the learner’s understanding and helps them to develop a practical skill set.

The 85-MT6 includes a Control Panel (fuse blocks, control relays, control transformer, etc.), an Electro-Pneumatic Panel (pneumatic cylinder, limit switch, pressure switch, etc.), an Operation Panel (pushbuttons, indicator lamps, etc.), and two 3-Phase Induction Motors. These industrial-grade components ensure that learners work with instruments they’d normally only see on the job, which helps them to gain confidence and experience. This commitment to supplying real-world components is an example of the attention to quality and detail that’s made Amatrol the world’s leader in skills-based, interactive technical learning.
Wiring Applications
The 85-MT6 Learning System focuses on electrical wiring and its many applications and functions. Learners will study how to terminate a panel wire and connect wires to terminal screws, how to properly strip a wire and tape motor leads, and how to run a wire from a control panel to an operator station. Learners will also study wire color coding, wire bundling, and the importance of wire numbering. The major components of the 85-MT6 are arranged like a real world machine, so learners will see how to lay out a project and estimate wiring lengths, quantities, and sizes. Components are also located on each side of the 85-MT6, so learners will have to visualize their work, a skill they will utilize in actual job situations.

Electrical Prints and Power Diagrams
The 85-MT6 curriculum will explain the differences between electrical prints and power diagrams and demonstrate why each is essential. This learning system will teach learners how to read and design schematics in both formats for electrical and electro-pneumatic circuits. Specifically, learners will study schematic symbols for each component, the importance of notes on diagrams, and how to follow a ladder diagram.

Optional 85-MT6 Multimedia
The 85-MT6 multimedia breaks down topics and objectives into an attractive, easy-to-follow presentation that allows learners to study electrical wiring curriculum in an electronic, interactive format. This separately purchased add-on expands the 85-MT6’s potential by allowing more learners to study electrical wiring skills.