

UNMATCHED ELECTRICAL TRAINING

Amatrol offers the most extensive selection of electrical training solutions available today. We provide a comprehensive, in-depth selection of online electrical training solutions, beginning with the basics of AC/DC electrical and moving on to more advanced topics like electrical machines, relay control, and fabrication; electrical motor control; and electrical wiring and power distribution.

| BASICS OF AC/DC ELECTRICAL TRAINING | |
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| AC/DC Electrical Learning System (T7017A) Portable AC/DC Electrical Learning System (990-ACDC1) | <ul style="list-style-type: none">• Principles of AC and DC Voltage and Current• Power Generation Principles• Principles of Resistance, Inductance, and Capacitance• Troubleshooting |
| ELECTRICAL MACHINES, RELAY CONTROL, AND FABRICATION | |
| Basic Electrical Machines Learning System (85-MT2) | <ul style="list-style-type: none">• Electric Motor Safety• Split-Phase AC Motors• DC Series Motor Operation• Motor Speed and Torque |
| Add-Ons for Basic Electrical Machines Learning System (85-MT2) ◦ 85-MT2B – DC Generators Learning System ◦ 85-MT2C – Alternator / Synchronous Motor Learning System ◦ 85-MT2D – Wound Rotor Motor Learning System ◦ 85-MT2E – Electric Motor Troubleshooting Learning System | <ul style="list-style-type: none">• Operation, Installation, Analysis, Performance, and Selection of Generators for Various Applications• Operation and Installation of Alternators / Synchronous Motors, Reversing Synchronous Motors, Field Excitation, and more• Function, Operation, and Performance Characteristics of Wound Rotor Motors• Troubleshooting and Testing Using a Multimeter and Megger Meter |
| Electric Relay Control Learning System (90-EC1A) Portable Electrical Relay Control Troubleshooting Learning System (990-EC1F) | <ul style="list-style-type: none">• Ladder Diagram Schematics• Electric Motor Control• Electrical Motor Control, Cylinder Sequencing, and Time-Delay Sequencing Circuits |
| Electrical Fabrication Training 1 Learning System (950-ELF1) | <ul style="list-style-type: none">• Electrical Terms and Safety• Wire Stripping and Wire Termination Techniques• Wiring System Components• Nonmetallic Cable, Switch, Outlet, Lighting Installation• Testing and Troubleshooting• 3-Way Switch Circuit Installation |
| ELECTRICAL MOTOR CONTROL TRAINING | |
| Electric Motor Control Learning System (85-MT5) Portable Electric Motor Control Troubleshooting Learning System (990-MC1F) Portable AC Variable Frequency Drives Troubleshooting Learning System (990-DRV1F) | <ul style="list-style-type: none">• Manual and Magnetic Motor Starters• Function of Limit, Pressure, Liquid Level, Pushbutton, Drum, and Selector Switches• Motor Sequence and Reversing Motor Control• System Design• Troubleshooting Methods• Time-Delay Relay Control• Component Operation |
| Add-Ons for Electric Motor Control Learning System (85-MT5) ◦ 85-MT5A – Motor Braking Learning System ◦ 85-MT5B – Reduced Voltage Starting Learning System ◦ 85-MT5C – Variable Frequency AC Drive Learning System ◦ 85-MT5D – Electronic Sensors Learning System ◦ 85-MT5E – Electronic Counter Learning System ◦ 85-MT5F – SCR Speed Control Learning System | <ul style="list-style-type: none">• Drum Switch and Manual Motor Plugging, Timer-Controlled Plugging, DC Injection and Dynamic Braking and more• Starting Electric Motors Under Reduced Voltage, 3-Phase Power Distribution Using Delta and Wye Transformer Wiring Configurations, and Troubleshooting• Operation and Application of Variable Frequency Drives (VFDs) Used to Vary the Speed of Fixed Speed AC Motor• Electronic Sensor Application and Installation, Capacitive and Inductive Sensors, PNP and NPN Transistors• Electrical Event Counting in Electrical Motor Control Circuits, System Design, and more• Variable Speed Motor Control of DC Electric Motors Using Silicon Controlled Rectifier (SCR)-Based Circuits |
| ELECTRICAL WIRING AND POWER DISTRIBUTION | |
| Electrical Wiring Learning System (850-MT6B) | <ul style="list-style-type: none">• Electrical Control Wiring Installation• Wire Color Coding• Electrical Control System and Electrical Panel Wiring• Wire Bundling• Pneumatic Control Circuit Wiring• Understanding Pneumatic Schematics |
| Add-Ons for Electrical Wiring Learning System (850-MT6B) ◦ 85-MT6BA - VFD/PLC Wiring Learning System ◦ 85-MT6BB – Industrial Soldering Learning System ◦ 85-MT6BC – Ethernet and Analog Wiring Learning System | <ul style="list-style-type: none">• Wiring Installation, Understanding Correct Wire Size, Material, Insulation, and more• Control Enclosure Soldering Techniques, Including Applications, Connections, and Safety• Installation, Operation, Wiring of Human Machine Interface (HMI) Panels, Ethernet Switches, and Analog Inputs |
| Electrical Power Distribution Learning System (85-MT7-B) | <ul style="list-style-type: none">• Conduit Sizing, Selection, Bending and Installation• Disconnect Selection and Installation• Fitting Types and Fitting Selection• Schematic Interpretation |

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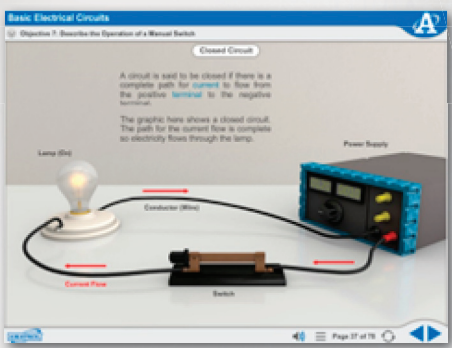
ELECTRICAL SYSTEMS

KNOWLEDGE BUILDING — TROUBLESHOOTING — HANDS-ON SKILLS

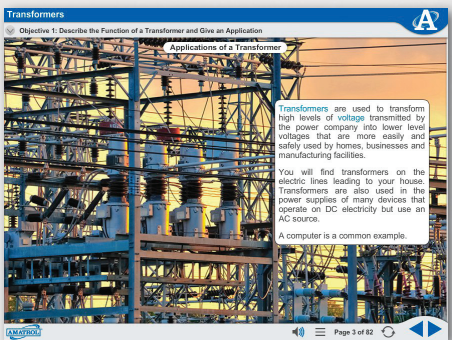
PROVEN ELECTRICAL TRAINING BUILDS INDUSTRY-RELEVANT SKILLS

eLEARNING

Amatrol's eLearning catalogue features hundreds of courses across various categories. Using the best instructional design practices, Amatrol's eLearning utilizes a wide range of interactivity to suit anyone's learning style.



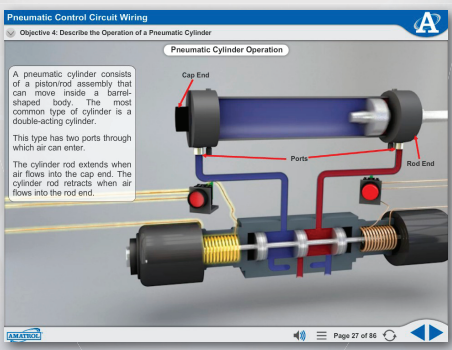
Basic Electrical Circuits



Transformer Applications



DC Series Motors



Pneumatic Control Circuit Wiring

Teach Crucial Concepts and Hands-On Skills



Motor Control (85-MT5 shown with 85-MT5A)

- Teaches manual motor control, overload protection, and motor starters
- Hands-on skills in control transformers, ladder logic, relays, and basic timer control
- Provides invaluable troubleshooting practice at the component and system levels

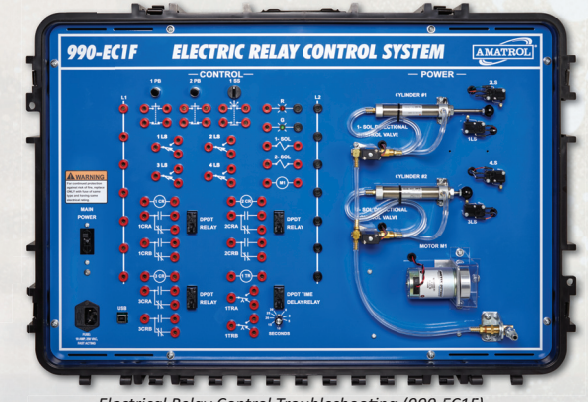
Reduce Downtime with Maintenance Skill-Building



AC/DC Electrical (990-ACDC1)

- Addresses logic elements and relay applications
- Offers time-delay relay applications
- Covers multiple cylinder control, as well as machine modes of operation

FAULTPRO
COMPUTER-BASED FAULT INSERTION

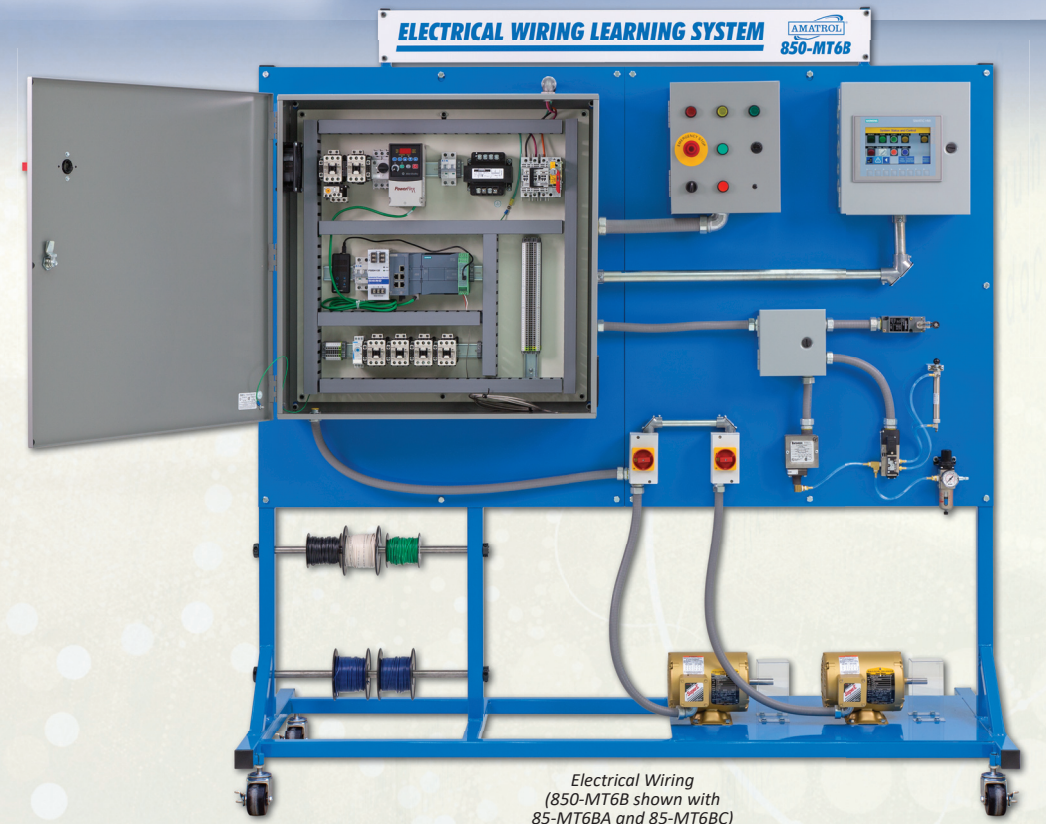


Electrical Relay Control Troubleshooting (990-EC1F)

- Covers skills used in industrial, commercial, agricultural, and residential applications
- Portable system for use at multiple sites
- AC/DC voltage current principles
- Resistance, inductance and capacitance

Real-World Troubleshooting Training

- Covers installation, operation, and wiring of Human Machine Interface (HMI) panels, Ethernet switches, and analog inputs
- Provides invaluable hands-on practice for careers like electricians and industrial maintenance technicians
- Includes a variety of real-world components such as a Siemens HMI panel, Ethernet switch, thermocouple, conduit set, etc.



Electrical Wiring (850-MT68 shown with 85-MT6BA and 85-MT6BC)

Offer On-The-Go Technical Training at Multiple Facilities



AC Motor Drive (990-DRV1)

- Teaches DC series, shunt, & compound motors
- Covers split and two capacitor 1-Phase AC motors
- Three-phase AC motors



Motor Control (990-MC1)

EACH OF THESE SYSTEMS FEATURES REAL-WORLD, HEAVY DUTY COMPONENTS AND EXTENSIVE CURRICULUM