

# IN-DEPTH AGRITECH TRAINING

As technology continues to transform agriculture, technical training is more important than ever. The next generation of agricultural experts must possess a broad range of knowledge across a variety of areas, including electrical, mechanical, fluid power, and alternative energy. Amatrol offers a variety of technical training solutions for both industry and education across all these areas and more!

| Learning Systems   | Hands-On Trainer | Interactive Multimedia | eBook | Topics Include:  |
|--|------------------|------------------------|-------|--|
| <b>ELECTRICAL</b>  |                  |                        |       |  |
| AC/DC Electrical Systems (T7017A)                          | ✓                | ✓                      |       | Basic Electrical Circuits; Electrical Measurements; Circuit Analysis; Inductance & Capacitance   |
| Electrical Fabrication (950-ELF1)                          | ✓                | ✓                      |       | Electrical Wiring; Wiring System Components; Service Connection & Circuit Protection             |
| Portable AC/DC Electrical (990-ACDC1)                      | ✓                | ✓                      |       | AC/DC Voltage & Current; Power Generation; Resistance, Inductance, & Capacitance                 |
| <b>MECHANICAL</b>  |                  |                        |       |  |
| Mechanical Drives 1 (970-ME1)                              | ✓                | ✓                      |       | Power Transmission Systems; V-Belt, Chain, & Spur Gears  |
| Mechanical Fabrication 1 (96-MPF1)                         | ✓                | ✓                      |       | Threaded Fasteners; Wrenches; Screwdrivers; Pneumatic System Fabrication                         |
| Mechanical Fabrication 2 (96-MPF2)                         | ✓                | ✓                      |       | Pliers & Locking Devices; Mallets & Non-Threaded Fasteners; Torque Wrench; Portable Power Tools  |
| Piping (950-PS1)   | ✓                |                        | ✓     | Metal Piping & Tubing System Installation; Plastic Piping Systems; Hoses; Two-Way & Check Valves |
| Portable Mechanical Drives 1 (990-ME1M)                    | ✓                | ✓                      |       | Power Transmission Systems; V-Belt, Chain, & Spur Gears  |
| <b>MOTOR CONTROL</b>                                       |                  |                        |       |  |
| Electric Motor Control (85-MT5)                            | ✓                | ✓                      |       | Manual & Magnetic Motor Starters; Switches; Motor Sequence & Reversing Motor Control             |
| Portable Electric Motor Control Troubleshooting (990-MC1F) | ✓                | ✓                      |       | Manual & Magnetic Motor Starters; Switches; Reversing Motor Control; Troubleshooting             |
| <b>FLUID POWER</b>   |                  |                        |       |  |
| Basic Fluid Power (850-CD2)                                | ✓                | ✓                      |       | Power Systems; Circuits; Pressure & Flow; Pressure & Speed Control; DCVs; Air Logic; Maintenance |
| Portable Pneumatics (990-PN1)                              | ✓                | ✓                      |       | Power Systems; Circuits; Pressure & Flow; Pressure & Speed Control                               |
| Portable Pneumatics Troubleshooting (990-PTB1)             | ✓                | ✓                      |       | Power Systems; Circuits; Pressure & Flow; Speed Control; DCVs; Air Logic; Maintenance            |
| Portable Electronic Sensors (990-SN1)                      | ✓                | ✓                      |       | Inductive & Capacitive Sensors; Electronic Sensor Applications                                   |
| <b>ALTERNATIVE ENERGY</b>                                  |                  |                        |       |  |
| Wind & Solar Training (850-AEC)                            | ✓                | ✓                      |       | PV Module Operation & Performance; Solar Batteries; AC & DC Wind Turbine Systems; Charging       |
| Turbine Generator Control Troubleshooting (950-TGC1)       | ✓                | ✓                      |       | Power Generation; System Communication and Control Software; Wind Turbine Troubleshooting        |



# AMATROL®

# AGRITECH

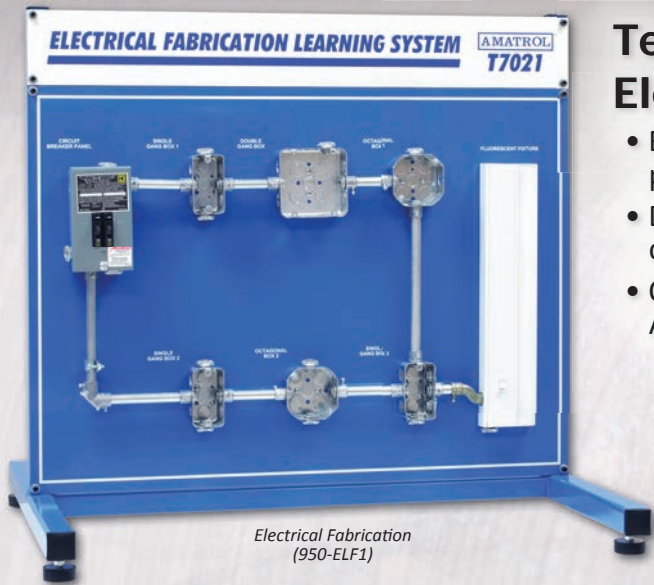
# TECHNICAL TRAINING FOR AGRICULTURE

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# PROVEN TRAINING BUILDS ESSENTIAL HANDS-ON AGRITECH SKILLS



Electrical Fabrication (950-ELF1)

## Teach the Basics of Electrical Systems

- Basic AC/DC electrical principles
- DC series, shunt, & compound motors
- One- & three-phase AC motors



AC/DC Electrical (T7017A)

## Offer Basic to Advanced Mechanical Drive Systems Training

- Belt drives
- Chain drives
- Gear trains
- Jaw, flange, chain, & grid couplings



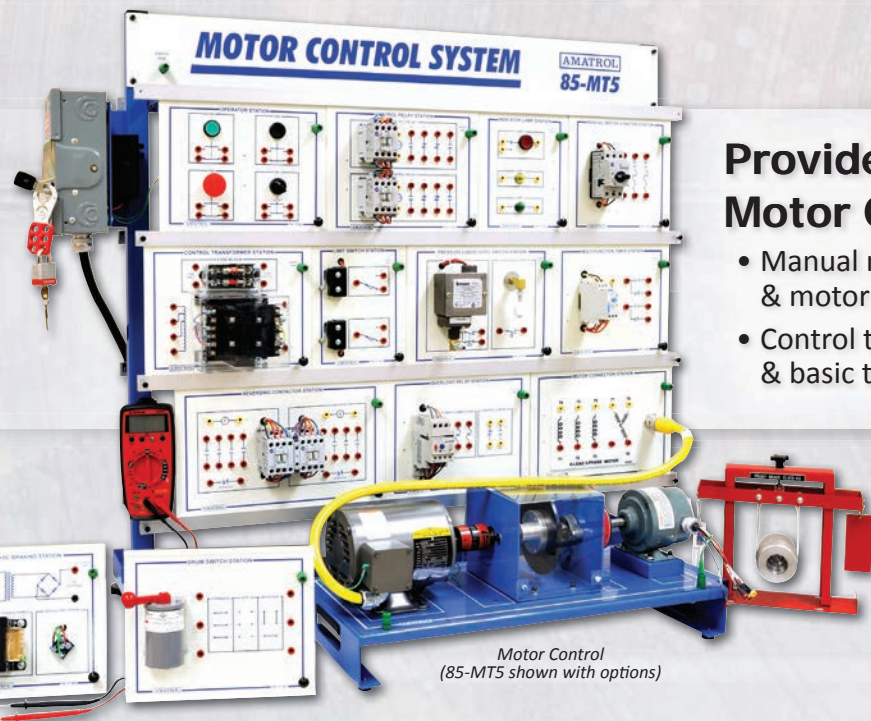
Mechanical Drives 1 (970-ME1 shown with options)

## Teach Key Hydraulics & Pneumatics Skills

- Hands-on maintenance of hydraulic & pneumatic systems & components
- Expandable to teach intermediate & advanced hydraulics & pneumatics, as well as electro-fluid power



Basic Fluid Power System (850-CD2 shown with options)



Motor Control (85-MT5 shown with options)

## Provide Essential Motor Control Training

- Manual motor control, overload protection, & motor starters
- Control transformers, ladder logic, relays, & basic timer control

## Deliver Effective Alternative Energy Skills Training

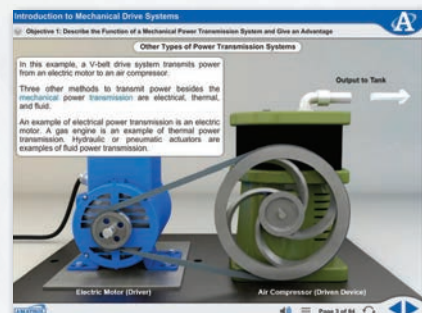
- Fundamentals of solar energy
- Training in small wind technologies



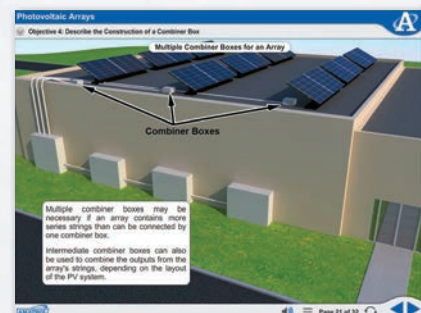
Wind & Solar Training System (850-AEC shown with options)

## eLearning

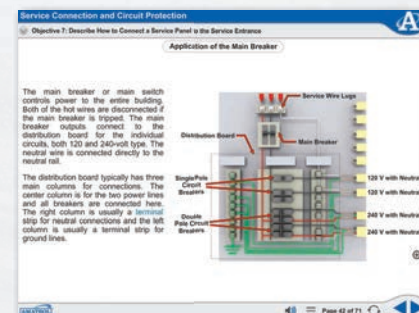
Amatrol's in-depth eLearning curriculum features an interactive multimedia format that includes stunning 3D graphics and videos, voiceovers of all text, and quizzes and exercises designed to appeal to all learning styles.



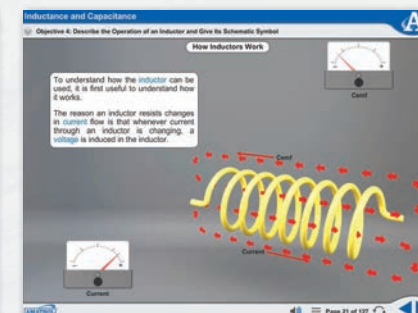
970-ME1 Multimedia



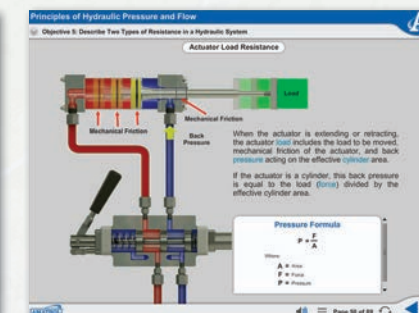
850-AEC Multimedia



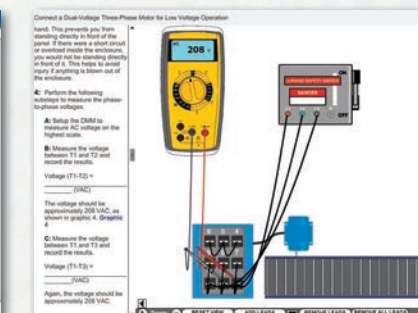
950-ELF1 Multimedia



T7017A Multimedia



85-BH Multimedia



85-MT5 Virtual Trainer

Each of These Systems Features Real-World, Heavy-Duty Components and In-Depth Curriculum