

UNMATCHED TECHNICAL TRAINING

Amatrol's eLearning catalog features courses that cover valuable technical skills. These courses start with the basics in various technologies and build to more advanced topics, such as hydraulic troubleshooting. These courses provide a solid foundation for any Aviation training course.

ELECTRICAL	Hardware	eLearning	Topics Include:
Portable AC/DC Electrical Learning System (990-ACDC1)	✓	✓	Basic Electrical Circuits, Fundamentals of Electricity, Electrical Measurements, Series & Parallel Circuits, Circuit Analysis, Inductance and Capacitance, Electromagnetism, Combination Circuits, Voltage Dividers, Transformer Sizing and Types
Portable Electric Relay Control Learning System (990-EC1)	✓	✓	Control Logic, Logic Elements, Ladder Diagrams, Electro-Pneumatic Solenoid Valves, Control Circuit Design, Sequencing Control, Relay & Limit Switch Operation, Time-Delay Relay Applications, Multiple Cylinder Control
ELECTRONICS			
Portable Power and Control Electronics Learning System (990-ELE1)	✓	✓	Troubleshooting, Component Operation, Circuit Applications, AC/DC Solid State Concepts, Oscilloscope Use, Proximity Sensors, Pressure and Thermal Sensors, Signal Conditioning, Transistors, Solid State Relays, Closed Loop Control
WIRING HARNESES			
Wiring Harness Learning System (950-WHS1)	✓	✓	Wiring Harness Components & Functions, Handling & Storing Wiring Harnesses, Types of Harness Connectors, Wiring Harness Connection & Installation, Types of Support Clips, Inspection of a Wiring Harness, Battery Cable Routing
HYDRAULICS			
Basic Hydraulics Learning System – Double Sided A-Frame Bench with Two Hydraulic Manifolds (850-HD1)	✓	✓	Hydraulic Power Systems, Basic Hydraulic Circuits, Hydraulic Pressure & Flow, Hydraulic Speed Control, Pressure Control Circuits, Hydraulic Schematics, Relief, Check, & Flow Control Valves, Meter-In, Meter-Out, & Flow Control Circuits
Hydraulics Maintenance Learning System (950-HM1)	✓	✓	Hydraulic Filter Maintenance, Hydraulic Fluid Maintenance, Adding Hydraulic Fluids, Flushing Hydraulic Systems, Fittings & Seals, O-Rings, Hose & Clamping Devices, Clamps, Brackets, & Clips, Cylinder Bleeding, Tubing & Component Installation,
Basic Hydraulic Troubleshooting Learning System (950-HTB1)	✓	✓	Hydraulic Pump Troubleshooting, Flow Measurement, Hydraulic Actuator Troubleshooting, Cylinders, Cushions, & Boots, Motor Troubleshooting, Hydraulic Directional Control Valve Troubleshooting, Machine Sequence Troubleshooting
Hydraulic Troubleshooting Learning System (950-HT1)	✓	✓	Pressure-Compensated Pumps Analysis & Performance, Hydraulic Actuators & Pumps Troubleshooting, Hydraulic DCVs Troubleshooting, Flow Control & Check Valves Troubleshooting, Hydraulic Systems Troubleshooting
MECHANICAL SYSTEMS			
Mechanical Fabrication 1 Learning System (950-MPF1)	✓	✓	Basic Measurement, Callipers & Micrometers, Dimensional Gauging, Go/No-Go Gauging, Snap, Bore & Depth Gauges, Geometric Dimensioning & Tolerancing, Assembly Tolerance, Feature & Control Frames, Circularity & Cylindricity
Production Assembly Learning System (950-PAS1)	✓	✓	Torque Basics, Torque Tools, O-Ring Seals, Lip Seals, Hydraulic Fittings, Hose and Coupling Assembly, Hose Installation, Tubing Installation



AVIATION

FUNDAMENTALS - MAINTENANCE - TROUBLESHOOTING

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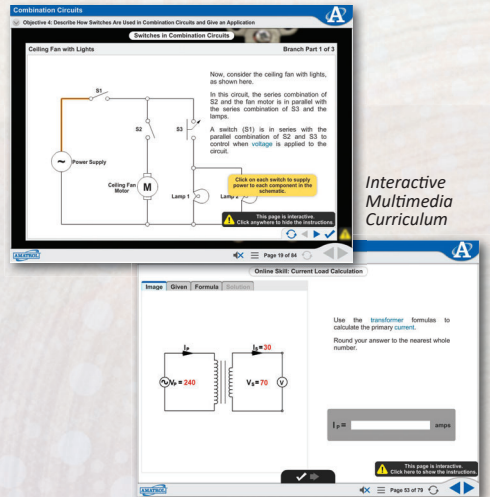
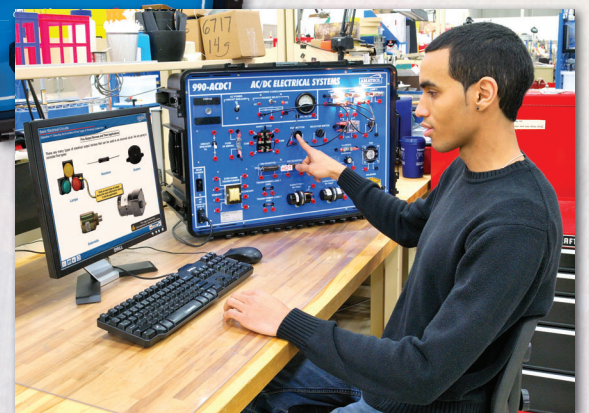
BUILD REAL-WORLD MAINTENANCE SKILLS FOR TECHNICIANS



Portable AC/DC Electrical Learning System (990-ACDC1)

Electrical Courses and Skill-Building

- Operate Electrical Circuits and Perform Circuit Analysis
- In-Depth Training on Control Logic, Ladder Diagrams, Relay Switches, Limit Switches, and Transformers
- Circuit Protection Devices and Sequencing Controls



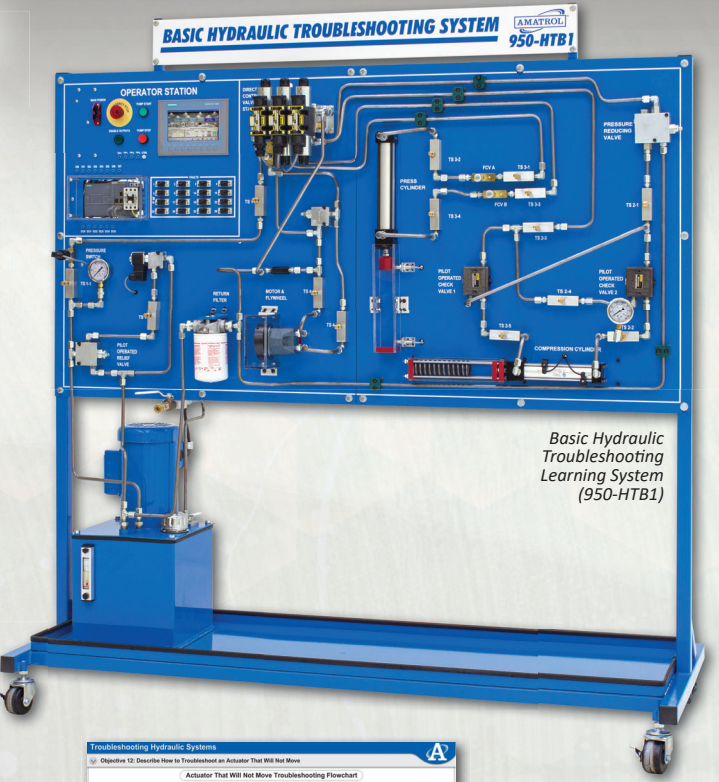
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Hydraulics Skills and Troubleshooting

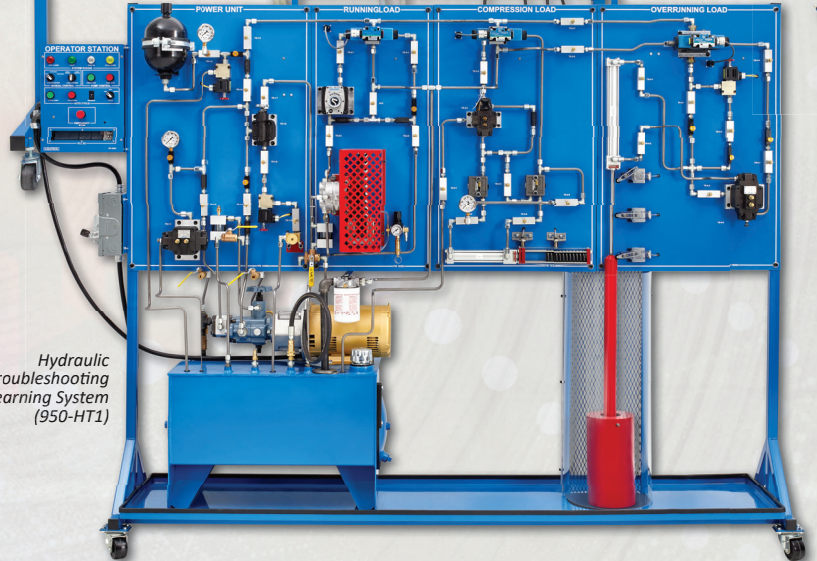
- Hands-On Experience Using Various Circuits
- Troubleshoot Systems-Level Faults, Machine Sequence Faults, and Machine Performance Faults
- Train on Industrial Hoses and Clamping Devices



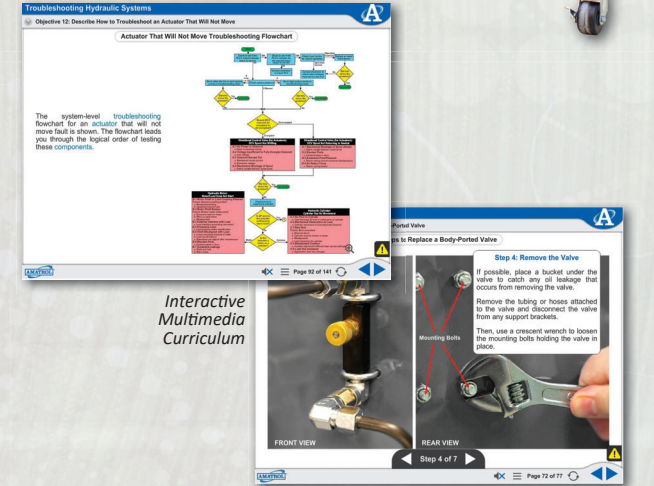
Hydraulic Maintenance Learning System (950-HM1)



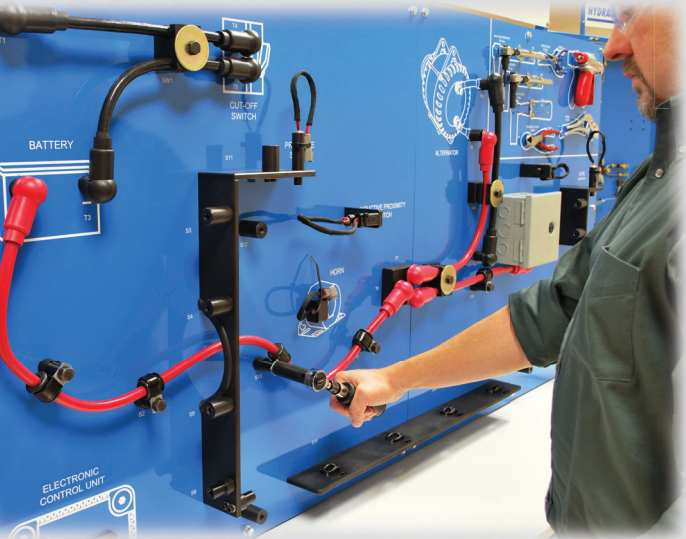
Basic Hydraulic Troubleshooting Learning System (950-HTB1)



Hydraulic Troubleshooting Learning System (950-HT1)

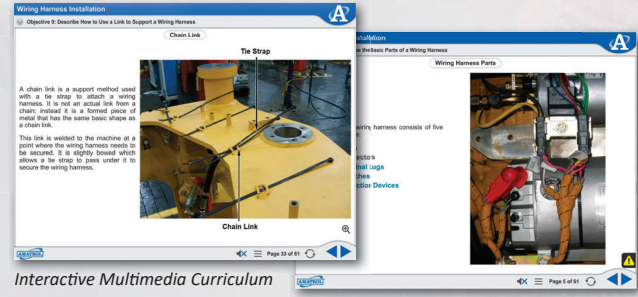


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Get Real-World Wiring Harness Training

- Install Six Types of Harness Connectors
- Hands-On Skills for Handling, Inspection, Storage, and Routing of Wiring Harnesses
- Practice How to Properly Install Cables

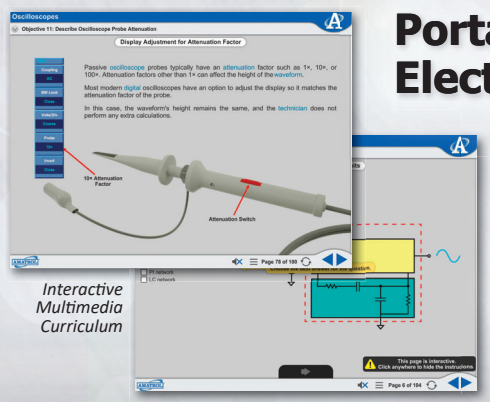


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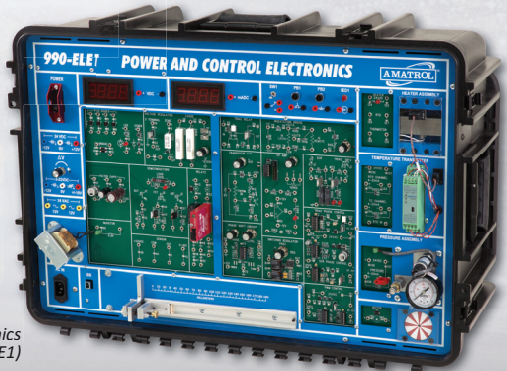
Wiring Harness Learning System (950-WHS1)

Portable Training Using Hands-On Electronic Components

- Operate, Adjust, and Troubleshoot Electronic Circuits
- Explore Differences Between Discrete & Thermal Sensing Devices
- Learn About Solid State Switching, Speed, and Power Control



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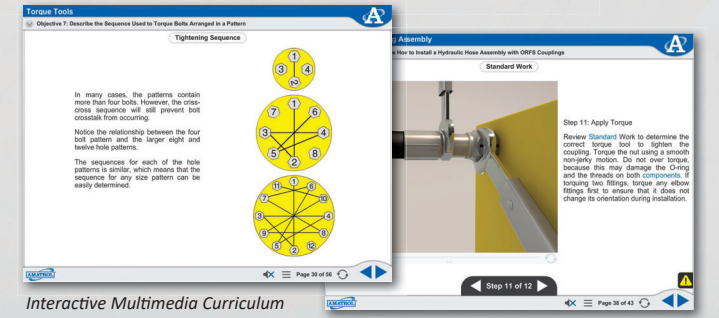
Portable Power & Control Electronics Learning System (990-ELE1)

Mechanical Fabrication Fundamentals

- Learn Proper Hose and Coupling Assembly Skills
- Use Proper Torqueing Procedures
- Proper, Safe Application of Portable Power Tools



Mechanical Fabrication 1 Learning System (950-PAS1)



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