### ELECTRICAL

**AC/DC Electrical (990-ACDC1)**
- AC/DC Voltage and Current Principles, Resistance, Inductance, and Capacitance; Circuit Protection, Breakers and Testers

**Relay Control (990-EC1) and Relay Control Troubleshooting (990-EC1F)**
- Control Logic and Logic Elements, Control Circuit Design, Relay Operation and Applications, Time-Delay Relay Applications, Machine Modes of Operation

**Motor Control (990-MC1) and Motor Control Troubleshooting (990-MC1F)**
- Control Ladder Logic and Relays, Troubleshooting, Reversing Motor Control and Automatic Input Devices, Interpreting Schematics and System Design

**AC Motor Drives (990-DRV1) and AC Motor Drives Troubleshooting (990-DRV1F)**
- Introduction to AC Drives, 2 and 3 Wire Motor Control, DC Injection Braking and AC Drive Versus Line Starting, S-Curve Acceleration

### ELECTRONICS

**Electronic Sensors (990-SN1)**
- Electronic Sensor Advantages and Components; Inductive, Capacitive, Magnetic Reed Sensors; Sensor Measurement and Applications

**Power and Control Electronics (990-ELE1)**

**PLC - Allen-Bradley**: *(990-PAB53A), (990-PAB53AF), and (990-PABCL1F)*
- Panelview Plus Terminal Operation and Application Editing; PLC Program Operations and Programming; Program Control, Math and Data Instructions; Analog Inputs and Outputs

**PLC - Siemens**: *(990-PS712) and (990-PS712F)*
- PLC Operation and Programming and HMI Panel Operation, Event Sequencing and HMI Application Editing, Reversing Constant-Speed Motor Control, Variable Speed Motor Control and Stepper Motor Control

### FLUID POWER

**Basic Hydraulics (990-BH1)**
- Hydraulic Power Systems and Circuits, Principles of Hydraulic - Pressure and Flow, Hydraulic Speed Control and Pressure Control Circuits, Pressure Reducing Valves and Troubleshooting

**Pneumatics (990-PN1)**
- Pneumatic Power Systems and Circuits, Pressure and Flow and Directional Control Valves, Air Logic and Pneumatic Maintenance, Flow Control and Check Valve Application

**Pneumatics Troubleshooting (990-PTB1)**
- Pneumatic Troubleshooting Concepts, Air Preparation and Regulator Troubleshooting, Troubleshooting Vacuum and Pneumatic Systems, Machine Sequence Faults

### MECHANICAL

**Mechanical Drives (990-ME1M)**
- Shaft Speed, Torque and Power Measurement, Power Transmission Systems and Shaft Alignment, Introduction to V-Belt Drives and Chain Drives, Spur Gear Drives, Installation and Analysis

### PROCESS CONTROL

**Process Control – Level & Flow (990-PC1) and Process Control Troubleshooting – Level & Flow (990-PC1F)**

### QUALITY ASSURANCE

**Measurement Tools (990-MES1)**
- Tape Measurement, Measurement Conversion, Dial and Digital Caliper Application, Dimensional Gauging and Data Collection

**Precision Gauging (990-PG1)**
- Basic Measurement and Conversion; Dial and Digital Caliper Application; Introduction to Gauging & Tolerance and Go, No-Go Gauging
Amatrol's portable systems don’t sacrifice learning outcomes for portability. They offer both hands-on-training, and interactive multimedia designed to complement various learning styles.

**Motor Control**

Evaluate and Expand Skills
Amatrol’s portables address a range of training areas, and fully measure authentic skills. Our electronic fault insertion, offered on select systems, builds invaluable troubleshooting skills.

**World Class Curriculum, Easy-to-Use Hardware**
Amatrol’s curriculum features in-depth knowledge, 3D animations, voiceovers, and interactive quizzes. This locally-installed curriculum engages learners and helps to build a deeper understanding of industrial topics.

**Utilize Full Spectrum of Learning Tools**
Amatrol’s portable training systems don’t sacrifice learning outcomes for portability. They offer both hands-on-training, and interactive multimedia designed to complement various learning styles.

**Easy to Secure and Transport**
These systems have a remarkably small footprint that allows for sharing between locations. These systems can also be locked and stowed away when not in use.