



Morrilton Green Bay Packaging Training Site

2023 Electrical & Instrumentation

Course Schedule (Jan.—June)



**GREEN BAY
PACKAGING**

Courses Offered Tuesdays or Wednesdays, 7 a.m. to 3:30 p.m.
Registration fee: \$300 (\$595 for PLC). Location: 1001 E Broadway St, Morrilton, AR

Tuesdays: Jan. 3rd—Jan. 31st (No off-week) \$300 Registration

Basic Electricity and Electronics for Industrial Applications

Covers basic, nonmathematical approach to understanding principles of electricity. Introduces electron theory, static electricity, electrons in motion, and magnetism. Covers basic methods of measuring current, voltage, and resistance. Explains circuit components-conductors, insulators, resistors, capacitors-and simple Ohm's Law calculations for DC and AC circuits.

Wednesdays: Jan. 4th—Feb. 1st (No off-week) \$300 Registration

Electrical Troubleshooting

Covers use of schematic diagrams, determining sequence of operation, and use of building diagrams and single-line diagrams. Includes troubleshooting procedures for control circuits and combination starters. Explains troubleshooting practices on DC and AC motors, identifying unmarked leads on three-phase delta and Y-connected motors, and troubleshooting lighting systems.

Tuesdays: Feb. 7th—March 7th (No off-week) \$300 Registration

Three-Phase Systems

Covers principles of three-phase motors, induction motors, synchronous motors, multispeed motors, maintaining three-phase motors, motor starters, three-phase motor controllers, alternators, auxiliary generator systems, power distribution systems.

Wednesdays: Feb. 8th—March 8th (No off-week) \$300 Registration

Intermediate Electrical / AC Control Equipment

This is an intermediate Electrical course. Covers motor starters, switches and controls, limit switches, special control switches, control relays, special motor controls, motor control centers, control panel wiring.

Tuesdays: March 14th—April 18th (Off-week of Mar. 21st) \$595 Registration

Programmable Logic Controllers Level 1 / Intro

An introduction to programming using Programmable Logic Controller (PLC) trainers with Allen Bradley (AB) ControlLogix hardware. The central processing unit (CPU) is an L32E. Discrete and analog inputs and outputs allow student operation of their programs. AB's RSLogix 5000 and RSLinx software is utilized. Prepares technicians to take full advantage of vendor training on specific equipment. Covers the basic operating principles of all PLCs, their inputs and outputs, programming, maintenance, and networking.

Wednesdays: March 15—April 19th (Off-Week of Mar. 22) \$595 Registration

Programmable Logic Controllers Level 1 / Intro

Same as above description.

Tuesdays: April 25th—May 23rd (No off-week)(\$300 Registration)

Advanced Electrical / Transformers and AC Circuits

Covers differences between DC and AC circuits. Explains AC sine wave, using vectors to solve AC problems, calculating impedance in circuits having inductance, capacitance, and resistance, AC power relationships in single-phase and three-phase circuits, and principles of transformer maintenance. *This is an advanced electrical course and the participant must have taken one of the following already: Basic Electricity & Electronics; Electrical Troubleshooting; or Intermediate Electrical.

Wednesdays: April 26th—May 24th (No off-week) \$300 Registration

Basic Electricity and Electronics for Industrial Applications

Same as Basic Elec. description above.

Tuesdays: May 30th—June 27th (No off-week) \$595 Registration

Programmable Logic Controllers Level 2

Before taking the PLC Level 2 Course, it is highly recommended that the participant take the Level 1 / Intro PLC course. PLC Level 2 will review instructions, timers, and counters. RS Logix 5000 will be used to cover advanced programming with PID Loop and Bit Shift.

Wednesdays: May 31st—June 28th(No off-week) \$595 Registration

Programmable Logic Controllers Level 2

Same as description above.

To register, contact:

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