



# Morrilton Green Bay Packaging Training Site

## 2022 Electrical & Instrumentation

### Course Schedule (July—Dec.)



**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: July 19th—August 16th (No off-week) \$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: July 20th—August 17th (No off-week) \$595 Registration**

#### **Programmable Logic Controllers Level 1/Intro**

Same description as above.

**Tuesdays: August 23rd—October 11th (No class Sep. 13, 20, 27)**

#### **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: August 24th—October 12th (No class Sep. 14, 21, 28)**

#### **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.

**Tuesdays: October 18th—November 15th (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 as a prerequisite. 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: October 19th—November 16th (No off-week) \$595 Registration**

#### **Programmable Logic Controllers Level 2**

Same as above description.

**Tuesdays: November 22nd—December 20th (No class Nov. 29)(4-week class)(\$240 Registration due to shorter class)**

#### **Reading Technical Diagrams**

Reading electrical, fluid power, and air conditioning technical diagrams. Introduction to Technical Diagrams, schematics and symbols. Learning the characteristics of a schematic and how flow is indicated. Schematic troubleshooting.

**Wednesdays: November 23rd—December 21st (No class Nov. 30)(4-week class)(\$240 Registration due to shorter class)**

#### **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 .

#### **To register, contact:**

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