



Morrilton Green Bay Packaging Training Site

2021 Electrical & Instrumentation

Course Schedule



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: January 5th—February 9th (off-day of Feb 9th) (6 people max)

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: January 6th—February 10th (off-day of Feb 10th) (6 people max)

Basic Electricity and Electronics for Industrial Applications

Same as above class description.

Tuesdays: February 16th—March 23rd (off-day of March 23rd) (5 people max)

Programmable Logic Controllers Level 1 / Intro (\$595 registration fee)

An introduction to programing 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: February 17th—March 24th (off-day of March 24th) (5 people max)

Programmable Logic Controllers Level 1 / Intro (\$595 registration fee)

Same as above class description

Tuesdays: March 30th—April 27th (No off-day) (6 people max)

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.

Wednesdays: March 31st—April 28th (No off-day) (6 people max)

Electrical Troubleshooting

Same as above class description

Tuesdays: May 4th—June 1st (No off-day) (5 people max)

Programmable Logic Controllers Level 2 (\$595 registration fee)

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 5th—June 2nd (No off-day) (5 people max)

Programmable Logic Controllers Level 2 (\$595 registration fee)

Same as above class description

Tuesdays: June 8th—July 6th (No off-day) (6 people max)

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: June 9th—July 7th (No off-day) (6 people max)

Advanced Electrical / Transformers and AC Circuits

Same as above description

To register, contact:

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