

## INDUSTRIAL TRAINING

### Maintenance Fundamentals

Recognize different maintenance approaches, appreciate required skills, and identify skill gaps. Employ basic diagnostic procedures, select appropriate tools, equipment, and fasteners and use them safely, discover fundamentals of power transmission, know lubricant characteristics, perform basic maintenance tasks, install and lubricate bearings, plumb for water and air, clean and maintain basic HVAC, repair blowers and fans, learn basic rigging and lifting procedures. Safe practices are integrated into training.

**\$855.00**

Lafayette | T/Th | July 7–Aug. 6 | 4pm–8pm

### Math for Maintenance

Refresh math skills needed in industrial maintenance, including basic operations, using a scientific calculator, formulas and solving equations, using graphs and tables, proportions, square roots, positive and negative exponents, geometry, trigonometry, fractions, decimals, scientific notation, metric and English measurements. Builds a solid foundation for success in following maintenance courses.

**\$485.00**

Lafayette | M/W | July 6–Aug. 13 | 4pm–6pm

### Print Reading and Measurement for Maintenance

Read and interpret information on electrical, instrumentation, architectural, piping, welding and machine shop prints and working drawings used in industry; understand views, dimensions, tolerances and symbols used in various prints. Learn and practice correct usage of precision measurement instruments and appreciate sources of variation in measurement.

**\$525.00**

Lafayette | T/Th | Aug. 11–Sept. 17 | 4pm–6pm

### Problem–Solving and Root Cause Analysis

Learn and apply practical tools to isolate root causes of problems. Practice applying principles, tools and techniques for documentation, diagnosis, correction and prevention of recurrence.

*Class will not meet on Labor Day, September 7.*

**\$485.00**

Lafayette | M/W | Aug. 17–Oct. 7 | 4pm–6pm

### Basic Electricity and Circuit Analysis

Understand fundamental concepts and mathematical relationships of basic electricity, DC & AC, Ohm's Law, power and energy, series and parallel circuits, AC/DC circuit analysis, meters, capacitors, magnetism, transformers, resistance, inductance, semiconductors and integrated circuits. Electrical safety is integrated throughout.

**\$895.00**

Lafayette | M/W | Oct. 5–Nov. 30 | 4pm–7pm

### Industrial Motors and Controls

Understand single–phase, direct current, three–phase, and special motors. Learn appropriate considerations for motor selection, protection, failure and troubleshooting. Electrical safety will be integrated throughout.

*Prerequisite: Basic Electricity and Circuit Analysis.*

**\$755.00**

Lafayette | Friday | Dec. 4–Feb. 19 | 5pm–8pm

### Industrial Wiring

Based on the National Electric Code, the course covers troubleshooting unit substations, feeder buses, panel boards, trolley busways, wire tables and conductor sizes, signal systems, motor installation, special equipment, system protection. Learn and practice conduit bending. Electrical safety will be integrated throughout.

*Prerequisite: Basic Electricity and Circuit Analysis.*

**\$755.00**

Lafayette | T/Th | Dec. 1–Jan. 12 | 4pm–7pm

### Industrial Circuits

Understand inputs, decisions and interfaces, electrical tools, instruments and safety, starters, solenoids, control devices, reversing circuits, distributing power, relays, voltage reduction, preventive maintenance, and ladder logic. Use this knowledge to troubleshoot problems. Electrical safety will be integrated throughout.

**\$755.00**

Lafayette | Saturday | Jan. 16–Mar. 27 | 9am–12pm

### Troubleshooting Electrical Systems

Reinforces concepts and applications from other courses and extends understanding and application through analysis of problems and troubleshooting systems. Electrical safety will be integrated.

**\$755.00**

Lafayette | Saturday | April 17–May 22 | 9am–2:30pm

## Mechanical Systems

Recognize mechanical system components and functions; understand power transmission, drive systems, conveyors; couplings and shaft alignment; speed reducers, clutches and brakes. Safe practices are integrated into training.

**\$625.00**

Lafayette | T/Th | Sept. 22–Oct. 22 | 4pm–7pm

## Wastewater Plant Operations

IDEM approved training course that assists in preparing for the following certification exam(s): Industrial Class A, B, C, D or Municipal Class I, II, III, IV Wastewater Treatment Plant Operators. This course reviews state and federal regulations related to wastewater plants.

*Textbook cost additional.*

**\$610.00**

Lafayette | Friday | Aug. 7–Oct. 23 | 3:30pm–6:30pm

## Welding Certifications (AWS)

Take the American Welding Society certification test for experienced welders. Exam participants will be required to provide personal safety equipment and garments. The average time requirement to complete the exam is 2–3 hours. A wide variety of specific certification requests can be accommodated.

*Please call the number at the bottom of the page for details.*

**\$395.00**

## Industrial Hydraulics and Pneumatics

Principles of pressure, flow and distribution, system components, including pumps, controls, sensors and design. Schematics and equipment manuals are used to troubleshoot actual hydraulic and pneumatic systems at plant sites. Safe practices are integrated into training.

**\$1,025.00**

Lafayette | Friday | Oct. 30–Jan. 15 | 9am–3:30pm

## ACCELERATED WORKFORCE TRAINING

### HOW WILL YOU COMPETE?

**Change your career.**

**Update your skills.**

**Shorten your job search.**

**Position for a promotion.**

Move yourself to the front of the line with training opportunities offered by Ivy Tech Community College with assistance from WorkOne. Accelerated courses are available in:

- Certified Production Technician
- Logistics Specialist
- CNC Operator
- Maintenance Technician
- Certified Manager
- Achieving Supervisory Excellence
- IC<sup>3</sup> Certification
- Microsoft Office Certification
- Medical Coding Specialist

Training provided by Ivy Tech Community College, (765) 269-5870. Tuition assistance provided by WorkOne, (765) 474-5411.

## ONLINE COURSES

### Gatlin Online

Ivy Tech Community College and Gatlin Education Services brings you up-to-date online career training in high-demand fields.

Our self-paced courses are available 24-hours a day. Courses are available in healthcare and fitness, business and professional, IT and software development, management and corporate, media and design, hospitality and gaming, and skilled trades and industrial.

All you need is Internet access, a computer, and a desire to learn. A team of online professionals, flexible scheduling, and educational textbooks provide a relevant, interactive learning experience. Costs and class hours vary. Programs usually take three to six months to complete.

Go to [www.gatlineducation.com/ivytech/lafayette](http://www.gatlineducation.com/ivytech/lafayette) for a complete listing of courses and prices.

### Ed2go

Ivy Tech Community College and Ed2go offer a wide range of highly interactive courses that you can take entirely over the internet. All of our courses include expert instructors, many of whom are nationally known authors. Our online courses are affordable, fun, fast, convenient, and geared just for you. Courses include computer applications, digital photography and video, web graphics and multimedia, healthcare, nutrition and fitness, personal enrichment, and more. Go to [www.ed2go.com/bitlaf](http://www.ed2go.com/bitlaf) for a complete listing of courses and prices.