



International Union of Operating Engineers

AFFILIATED WITH THE AMERICAN FEDERATION OF LABOR AND CONGRESS OF INDUSTRIAL ORGANIZATIONS

Training Course Schedule

Courses from April 27, 2024 - June 26, 2024

| Course - Session | Date(s) |
|--|-----------------------------|
| Pipeline - ONLINE OILER TRAINING | May 1, 2024 - May 1, 2024 |
| Pipeline - Specific Task Excavator Training | May 13, 2024 - May 18, 2024 |
| Pipeline - Specific Task Angle Dozer Training | May 13, 2024 - May 18, 2024 |
| Pipeline - Excavator Procedures for Existing Live Pipelines | May 13, 2024 - May 25, 2024 |
| Boiler System Efficiency | May 13, 2024 - May 15, 2024 |
| Pipeline - HDD/Mud System - Repair & Maintenance of HDD Equipment | May 13, 2024 - May 18, 2024 |
| OSHA 510 Safety & Health Standards for the Construction Industry | May 14, 2024 - May 17, 2024 |
| Mechanics Training - Intro to Diesel Laptops & Diagnostic Software | May 14, 2024 - May 17, 2024 |
| GPS Training for Instructors Only | May 14, 2024 - May 16, 2024 |
| Crane Operations - Intro To Luffing Crawler Crane Operations | May 14, 2024 - May 18, 2024 |
| Tractor Loader-Backhoe Operations | May 14, 2024 - May 17, 2024 |
| OSHA 500 Trainer Course Construction Industry | May 18, 2024 - May 21, 2024 |
| Indoor Air Quality | May 18, 2024 - May 20, 2024 |
| Excavation Operations | May 20, 2024 - May 24, 2024 |
| Crane Operations - Level 2 Luffing Crawler Crane Operations | May 20, 2024 - May 24, 2024 |
| Crane Operations - Practical Testing for NCCCO Certification | May 20, 2024 - May 24, 2024 |

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| HVAC Systems 1 | May 20, 2024 - May 24, 2024 |
| Member Assistance Program - It's time to Get Uncomfortable: Bringing Awareness to Lifestyle Issues and Focusing on the Path to Prevention, Recovery and Support | May 21, 2024 - May 23, 2024 |
| Pipeline - ONLINE OILER TRAINING | Jun 1, 2024 - Jun 1, 2024 |
| Welding | Jun 3, 2024 - Jun 7, 2024 |
| Teaching Techniques I | Jun 3, 2024 - Jun 7, 2024 |
| Mechanics Training - Hydraulic Fundamentals | Jun 3, 2024 - Jun 7, 2024 |
| Blueprint Reading for Stationary Engineers | Jun 4, 2024 - Jun 8, 2024 |
| Solar Panel Installation Maintenance & Troubleshooting | Jun 6, 2024 - Jun 9, 2024 |
| Basic Controls and Building Automation Systems | Jun 8, 2024 - Jun 10, 2024 |
| Drone Training | Jun 10, 2024 - Jun 14, 2024 |
| Excavation Operations | Jun 10, 2024 - Jun 14, 2024 |
| Chief Engineer/Facility Management Seminar | Jun 10, 2024 - Jun 14, 2024 |
| Pump Maintenance & Operation | Jun 10, 2024 - Jun 13, 2024 |
| Advanced Controls & Building Automation Systems | Jun 11, 2024 - Jun 13, 2024 |
| GPS Training for Instructors Only | Jun 11, 2024 - Jun 14, 2024 |
| Job Corps Training Conference | Jun 11, 2024 - Jun 13, 2024 |
| Air & Hydronic Testing and Balancing | Jun 15, 2024 - Jun 18, 2024 |
| HVAC Systems 1 | Jun 15, 2024 - Jun 19, 2024 |
| Crane Operations – Tower Crane Standards Training & Load Chart Review / NCCCO Practical Testing for Tower Crane Certification | Jun 18, 2024 - Jun 22, 2024 |

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| Crane Operations - Level 2 Crane Operations | Jun 18, 2024 - Jun 22, 2024 |
| New Organizer Training | Jun 18, 2024 - Jun 21, 2024 |
| Chiller Efficiency | Jun 19, 2024 - Jun 21, 2024 |
| Electrical Troubleshooting & Variable Frequency Drive Operations | Jun 20, 2024 - Jun 23, 2024 |
| Excavation Operations | Jun 24, 2024 - Jun 28, 2024 |
| Electrical Systems 2 | Jun 24, 2024 - Jun 28, 2024 |
| Welding | Jun 24, 2024 - Jun 28, 2024 |
| Crane Operations - Practical Testing for NCCCO Certification | Jun 24, 2024 - Jun 28, 2024 |
| Certified Pool Operator | Jun 25, 2024 - Jun 27, 2024 |
| Instrumentation and Controls | Jun 25, 2024 - Jun 29, 2024 |

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Training Course Descriptions

PIPELINE - ONLINE OILER TRAINING

This is an online class only. The class will take approx. 8 hours to complete, you will be able to complete the class at your own pace, meaning you can log in and out as needed to complete the course.

This class is intended for anyone who wants to work as an oiler in the pipeline industry. It is also intended for operators who have never worked in the pipeline industry.

Topics discussed and included in the course:

- Work Environment
- Duties of a Pipeline Oiler
- Nomenclature
- Work Ethic
- Vocabulary Games and review
- Final Exam
- Final Vocabulary Exam

The member will receive a certificate of completion at the end of the course.

PIPELINE - SPECIFIC TASK EXCAVATOR TRAINING

This class will be considered open training for members who have been past attendee's of the Intermediate Excavator classes. The class will run 10 hours a day, 6 days in duration. The class will consist of 10 hours a day in the field. There will be no classroom time unless inclement weather occurs.

The member will be able to decide which task's he/she would like to practice. The class is



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intended to allow the member to further enhance the skills that were taught while attending the previous intermediate class. This class is all about seat time.

There will be an instructor available at all times.

PIPELINE - SPECIFIC TASK ANGLE DOZER TRAINING

This class will be considered open training for members who have been past attendee's of the Angle Dozer Intermediate classes. The class will run 10 hours a day, 6 days in duration. The class will be 10 hours a day in the field. There will be no classroom time unless inclement weather occurs.

The member will be able to decide which task's he/she would like to practice. The class is intended to allow the member to further enhance the skills that were taught while attending the previous intermediate class. This class is all about seat time.

There will be an Instructor available at all times.

PIPELINE - EXCAVATOR PROCEDURES FOR EXISTING LIVE PIPELINES

Excavation class for Existing Live Pipelines (Maintenance/Rehabilitation work)

This class is a two week course; 12 days total, Monday-Saturday, the class runs 10 hours a day. A typical day will consist of two hours of classroom instruction followed by 8 hours of actual field training. The class will have one instructor and four students.

This class is intended for experienced excavator operators.

This class will prepare the operator for working in the rehabilitation of existing pipelines that are already in service. During the class the following subjects will be covered:



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- How to safely probe and pothole for a hotline
- How to dig around existing pipelines using various slope methods required by different gas companies
- How to safely pad and backfill an existing pipeline
- How to safely carry a joint or a section of pipe that has been welded together
- How to dig egresses
- Pipeline terminology
- Safety
- All other various applications of the excavator throughout the rehabilitation process

BOILER SYSTEM EFFICIENCY

This course is designed to assist in the education and development of the individual who has the responsibilities for the day to day operation and maintenance of their boiler and the ancillary equipment. This individual will gain the knowledge and understanding of how to properly operate the equipment safely and more efficiently. This course will also provide the proper sequence of operation or timing that will assist in the troubleshooting area and reduce downtime and increase reliability. The program includes plant tours to reinforce lessons learned.

PIPELINE - HDD/MUD SYSTEM - REPAIR & MAINTENANCE OF HDD EQUIPMENT

This class is a one week course. The course schedule is 10 hours a day. A typical day will consist of minimal classroom time with maximum field time "Hands on".

This class will prepare the operator to perform the maintenance procedures of an HDD machine along with the MUD system components.



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The following subjects will be covered:

- Mud pump rebuilds
- screen care and maintenance
- pm maintenance
- drill rod care and maintenance
- vice care and maintenance
- mud system troubleshooting
- machine walk around
- pull swivel care and maintenance
- drill screen navigation for settings
- locator screen navigation settings
- Safety

OSHA 510 SAFETY & HEALTH STANDARDS FOR THE CONSTRUCTION INDUSTRY

OPEN TO IUOE INSTRUCTORS ONLY

This course covers OSHA policies, procedures, and standards, as well as construction safety and health principles. Topics include scope and application of the OSHA construction standards. Special emphasis is placed on those areas that are the most hazardous, using OSHA standards as a guide. Completion of this class is required prior to taking the OSHA 500 class.

MECHANICS TRAINING - INTRO TO DIESEL LAPTOPS & DIAGNOSTIC SOFTWARE

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Training Course Schedule

Mechanics Training - Introduction to Diesel Laptops and Diagnostic Software -

In this course, members will be given an introduction to the diesel laptops diagnostic software and hardware, along with applications of these tools.

Topics will include:

- Introduction to the TEXA software
- Aftertreatment
- Electrical 1
- Electrical 2
- Data bus Diagnostics

GPS TRAINING FOR INSTRUCTORS ONLY

GPS Training for Instructors Only - Courses are available to active IUOE Instructors only.

CRANE OPERATIONS - INTRO TO LUFFING CRAWLER CRANE OPERATIONS

Intro to Luffing Crawler Crane Operations - This course is for students with previous crane experience. The course will introduce operators to the procedures for raising and lowering luffing boom systems as well as their operation. It will cover what critical boom-to-luff angles are and where to find them. It will also cover how luffer charts differ from other charts.

TRACTOR LOADER-BACKHOE OPERATIONS

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Training Course Schedule

The IUOE Training & Education Center will be offering classes in all areas of TLB operation from beginner through advanced.

Topics covered:

- Trenching
- Benching
- Sloping
- Trench Box Work
- Backfilling
- Layout.

OSHA 500 TRAINER COURSE CONSTRUCTION INDUSTRY OPEN TO IUOE INSTRUCTORS ONLY

AUTHORIZES INSTRUCTOR TO TEACH: 10- and 30-Hour Construction Industry Outreach courses.

INDOOR AIR QUALITY

This course covers the vast issues of IAQ in commercial buildings and how to handle the everyday problems, how to prevent and solve IAQ problems effectively, how to work with building management and owners in developing an IAQ maintenance and tracking program, and explains the latest IAQ concerns such as airborne contaminants, mold, and radon mitigation.

EXCAVATION OPERATIONS

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Excavation Operations – The IUOE Training and Education Center will be offering the Excavation Operations course for Operators with skill levels of beginner through advanced. This 40-hour course will include classroom instruction and hands-on training. Classroom instruction topics will include machine safety, working around utilities and OSHA regulations that apply to trenching/excavation activities. Hands-on will consist of machine control familiarization, benching and sloping techniques, slot dozing and backfill operations. Upon completion of this course, the member will understand trench safety techniques and how to move dirt efficiently.

CRANE OPERATIONS - LEVEL 2 LUFFING CRAWLER CRANE OPERATIONS

Level 2 Luffing Crawler Crane Operations - This course is available to members that have successfully completed an Intro to Luffing Crawler Cranes Operations course at ITEC.

Prerequisites: Member must also be certified/licensed for mobile hydraulic and/or lattice cranes. Certifications/Licenses include OECP, NCCCO, Red Seal.

CRANE OPERATIONS - PRACTICAL TESTING FOR NCCCO CERTIFICATION



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Training Course Schedule

Practical Testing for NCCCO Certification - Please remember when registering for this course that you should have prior experience in crane operations. The training portion of this course is only an equipment familiarization period on the crane or cranes you would like to be tested on. Members will complete a NCCCO application when the course begins and all candidate testing fees are the responsibility of the candidate.

Practical Testing available on the following cranes

- Lattice Boom Cranes
- Telescopic Boom Cranes—Swing Cab (TLL)
- Telescopic Boom Cranes—Fixed Cab (TSS)
- Tower Crane
- Overhead Crane

HVAC SYSTEMS 1

Heating Ventilation Air Conditioning and Refrigeration are core topics for Stationary Engineers.

This course is designed to give students an solid understanding of HVACR. After taking this class students will have:

- Knowledge of fundamental refrigeration principles.
- Knowledge of fundamental HVAC principles.
- Knowledge of HVAC system components.
- Knowledge of HVAC control systems.
- Understand air comfort and quality.
- Ability to solder and braze connections for piping systems.

This course includes hands on training with state of the art tools and equipment.

MEMBER ASSISTANCE PROGRAM - IT'S TIME TO GET UNCOMFORTABLE: BRINGING AWARENESS TO LIFESTYLE ISSUES AND FOCUSING ON THE PATH TO PREVENTION, RECOVERY AND SUPPORT

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Training Course Schedule

Peer training on developing local Member Assistance Programs.

WELDING

Courses will teach the student how to weld in all positions using different welding processes.

TEACHING TECHNIQUES I

Teaching Techniques I is designed especially for part-time, new or recently hired instructors. The course presents useful introductory concepts and also requires actual practice teaching with constructive feedback. It is conducted over a 4-½ day period. It will provide instructors with all materials and demonstrate various teaching techniques for classroom application and meets the U.S. Department of Labor requirements for apprentice instructor training.

MECHANICS TRAINING - HYDRAULIC FUNDAMENTALS

Mechanics Training - Hydraulic Fundamentals

This course will give the student a strong foundation in hydraulic systems used in mobile equipment. Upon completion, participants will be able to:

- Describe the principles of hydraulics.
- Identify and describe the function of the components that make up a typical hydraulic system.
- Identify and read the schematic symbols in a typical hydraulic schematic.
- Understand the use and operation of load sensing variable displacement pumps.

The learning environment will be established in both the classroom and the service shop.



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BLUEPRINT READING FOR STATIONARY ENGINEERS

Students will be exposed to various subjects related to blueprint reading, such as blueprints, construction materials, construction methods, specifications, branding, and quantity takeoff. Students will spend approximately 70% of classroom time with hands-on labs utilizing a variety of the prints and specifications that are most often used as reference and guidance for the Stationary Engineer. Specific emphasis on owner branding, electrical, HVAC, and plumbing prints, and their use in the industry.

SOLAR PANEL INSTALLATION MAINTENANCE & TROUBLESHOOTING

This course work will include information on site location, system sizing, mounting options, system components, configurations, mechanical, electrical integration and code requirements. Topics also include Solar Radiation, System Components, Cells, Modules, and Arrays, Batteries, Inverters, System Sizing, Mechanical Integration, Electrical Integration, Utility Interconnection, Permitting and Inspection, Commissioning, Maintenance, and Troubleshooting. Students will receive hands on training in installation and configuration of actual solar voltaic systems.

BASIC CONTROLS AND BUILDING AUTOMATION SYSTEMS

BASIC CONTROLS& BUILDING AUTOMATION SYSTEMS

This course has been developed for individuals who want to take the mystery out of the understanding of how DDC controls and Building Automation Systems operate, and also the insight of the various related software packages that drive these systems and how they manipulate these systems.

This seminar has also been designed for people not familiar DDC controls and Building Automation Systems. There will be lectures on basic control strategies, the basics of DDC hardware, and also the basic understanding of building optimization for curtailing the use of energy.

For the experienced people there will be discussions on advanced control technologies dealing with the architecture of Building Automation Systems, discussing how they are installed, wired, and then programmed. Also, there will be main topic lectures on DDC Main Controllers, Stand alone controllers, and there communication protocols.

After the completion of this seminar the participants will be able to:

- Understand the basic DDC and Analog control technology for the HVAC field



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Training Course Schedule

- Describe the different types of control actions and when to use them
- Identify Building Automation System main components and where they are used
- Define and select the proper Automation System for different locations
- Ascertain how Building Automation Systems Operate to maintain human comfort
- Define the different types of Analog and Binary inputs and outputs
- Understand the system wiring through various schematic diagrams of installed systems
- Comprehend the different type of operator interfaces and how they communicate
- Define criteria for control strategies such as with closed loop control
- Describe control strategies and how buildings are optimized for peak efficiency
- Understand how a PID loop is written and how to tweak it in for the maximum performance
- Define the different types of programming method



DRONE TRAINING

This will be a comprehensive look at the use and versatility of Drones on today's construction projects. After completing this course you will be able to prepare for your Commercial Drone Pilot's License Test.

CHIEF ENGINEER/FACILITY MANAGEMENT SEMINAR

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This Seminar is designed for chief engineers or engineers training to make the transition to chief or lead engineer. This seminar will provide the student the necessary administrative and personnel skills to handle the day-to-day leadership challenges associated with this position.

The ten sections are:

- Recommended Skills levels
- Planning and Time Management
- Budget Preparation
- Computer Applications
- Record Keeping
- Benefits of an Internal Work Force
- Reports and Presentations
- Health and Safety
- Human Relations
- Energy Conservation.

The Chief Engineers class has been updated as a Blended Learning Environment, in which traditional face-to-face instruction is also supplemented with specific computer assisted Learning. The purpose is to take advantage of the best features of both face-to-face and computer assisted learning in the same classroom setting. During class you will be given a set of credentials and guided how to log onto the platform. Once logged in, you will be instructed on how to use and navigate the system. Additionally, while performing some of the class exercises, you will be using various types of software for letter writing, email, budgets, presentations etc. With all that said, it would be advantageous if each member would bring their own laptop computer to class, being that some of these exercises will remain on the computer for the student's future reference. If you cannot bring your own laptop computer or you do not own a laptop computer, we can provide a computer for you to use during the class.

PUMP MAINTENANCE & OPERATION

Successful and efficient operations and maintenance of any mechanical system can only be accomplished with a clear understanding of the components making up the mechanical system and how they interact. Stationary engineers are responsible for the operations and maintenance of the Chilled Water, Condenser Water and Hot Water systems to just name a few. The heart of each of these is the pump.

In this four-day course students will become familiar with different types of pumps, their operating principles, how to diagnose and troubleshoot issues, and their proper maintenance and repair procedures. Focus is on hands on activities.



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Training Course Schedule

ADVANCED CONTROLS & BUILDING AUTOMATION SYSTEMS

ADVANCED CONTROLS & BUILDING AUTOMATION SYSTEMS

Prerequisite: Students should have taken Basic Controls and Building Automation Systems or have similar work experience

This advanced course has been developed for individuals who want to develop the understanding of how DDC controls and Building Automation Systems are installed, wired, operated, and programmed, also included is the insight of the various related software packages, that drive and manipulate these systems. We will discuss and demonstrate advanced control technologies dealing with the architecture of various manufactures of Building Automation Systems. We will demonstrate how they are installed, wired, and then programmed. Also, there will be main topic lectures on BAS Supervisory Controllers, Standalone controllers, and their communication protocols.

There will also be lectures on advanced control strategies and the understanding of building optimization for curtailing the use of energy.

After the completion of this course the participants will be able to:

- Describe the different types of control actions and when to use them
- Identify Building Automation System main components and where their used
- Define and select the proper Automation System for various locations
- Define the different types of Analog and Binary inputs and outputs
- Understand system wiring through various schematic diagrams of installed systems
- Wire Building Automation System main components
- Understand the various types of BAS communication protocols
- Program various type of industry controllers
- Comprehend the different types of operator interfaces and how they communicate
- Describe control strategies and how buildings are optimized for peak efficiency
- Define the different types of programming graphic methods

JOB CORPS TRAINING CONFERENCE

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Registration for this conference is only open to IUOE NTF Job Corps Staff.

AIR & HYDRONIC TESTING AND BALANCING

This seminar is designed to enhance an engineer's air and hydronic balancing skills. Students will become familiar with the proper tools, instruments, and common methods of transferring air and water through a facility. Students will work on actual equipment including Air Handler, VAV's and fan boxes, dampers, various types of diffusers, blueprints, and appropriate tools and measuring devices.

CRANE OPERATIONS – TOWER CRANE STANDARDS TRAINING & LOAD CHART REVIEW / NCCCO PRACTICAL TESTING FOR TOWER CRANE CERTIFICATION

Crane Operations – Tower Crane Standards Training & Load Chart Review / NCCCO Practical Testing for Tower Crane Certification - This course will include standards from OSHA 1926.1435 and ASME B30.3, load chart and range diagram review.

Please remember when registering for this course that you should have prior experience in crane operations. The training portion of this course is only an equipment familiarization period on the crane or cranes you would like to be tested on. Members will complete a NCCCO application when the course begins and all candidate testing fees are the responsibility of the candidate.

Practical Testing available for Tower Crane only.

Members must bring PPE to include hardhat, boots, gloves, safety vest and safety glasses to training.

CRANE OPERATIONS - LEVEL 2 CRANE OPERATIONS

Level 2 Crane Operations – This course promotes the process for making the necessary decisions to make safe lifts in the field. Training incorporates hands on tasks that include the following –

- Difficult Driving/Setup
- Selecting Proper Boom Modes



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- Handling Jersey Barriers
- Loading/Unloading Crane on Trailer
- Pile Driving
- Tilt-up Operations
- Pick and Carry Operations
- Heavy Lift and Block Reeving
- Steel Erection
- Personnel Lifts
- Two Crane Picks

NEW ORGANIZER TRAINING

International and Local staff will conduct detailed training sessions on all aspects of organizing workers and contractors. Breakout sessions will focus on issues specific to H&P and Stationary, and general sessions will cover organizing techniques and strategies, legal issues, research and the use of social media and technology in organizing.

This training is designed for organizers with less than two years' experience, but is open to all organizers who have not previously attended. Due to the highly interactive nature of this training, class size will be limited to 30 attendees. Please note that this course is only open to current local union staff who are working as organizers/agents.

CHILLER EFFICIENCY

Chillers can be one of the largest energy users in a facility. This seminar provides an overview of the fundamentals of several types of chillers and how they function. It also reviews the controls of popular chiller interfaces and what to look for when monitoring them to help ensure they are running at their peak efficiency. Students have the opportunity to work with one of the three chillers in the training center which include Carrier, Trane, and York chillers.

ELECTRICAL TROUBLESHOOTING & VARIABLE

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FREQUENCY DRIVE OPERATIONS

This four-day seminar is designed to provide the knowledge and skills required when selecting, installing, testing and troubleshooting electrical systems the motors they control, and the control circuits connected to them. In this hands-on seminar, students will build, program and test VFD, motors and control circuits.

Test instruments covered and used include digital multi-meters (DMMs), current clamps and meter attachments. Topics, circuits, and equipment covered include:

- Test instrument terminology, symbols and measurement functions for each type of instrument used is covered to learn what test instruments should and should not be used circuits.
- Learn the safe and correct way to take electrical measurements and what the measurements actually mean.
- Learn where and how to use special meter functions like MIN/MAX, RELATIVE, LoZ, Peak, kVA, kW, and PF measurement functions.
- Learn how to test for grounding problems.
- Understanding VFD and motor nameplate data.
- Learn how to test and wire any three-phase motor without using the motors wiring diagram and what the expected readings should be before power is applied and how to troubleshoot the motor after power is applied.
- Circuits built include using, magnetic motor starters, mechanical and solid-state switches, such as, selector switches, proximity switches, photoelectric switches, analog inputs (photovoltaic and potentiometers), and other commonly used electrical devices.
- Connect, program, and test VFDs (variable frequency drives).



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- Take power measurements (P.F., kVA, kW, and harmonic) to understand power quality problems.

ELECTRICAL SYSTEMS 2

This class builds off of Electrical Systems 1 so students should have taken that before this class or have comparable experience and understanding.

In this class, students will be provided a greater understanding of electrical principles and theory including series and parallel circuits and more advanced electric formulas. Students will gain the ability to read electrical prints, replace breakers, and perform troubleshooting using Fluke meters. This course includes substantial hands-on activities.

CERTIFIED POOL OPERATOR

This course will prepare the student for the Pool & Hot Tub Alliance (PHTA) (formerly National Swimming Pool Foundation (NSPF) certified pool operator exam. The test will be administered by an authorized PHTA instructor on the last day of the course. The certification is valid for five years from date of course completion. There is a cost to the student of \$45.00 for the certification.

INSTRUMENTATION AND CONTROLS

Instrumentation and Controls is an introductory course covering basic skills and concepts used in the field. The curriculum will provide students with a solid foundation for various industrial applications and process operations in various stationary facilities. The course will cover instrumentation principles including pressure, flow, level and temperature, as well as safety and tools of the trade. Students will become familiar with control valves and controllers, and learn various control schemes which include transmitter calibration and system troubleshooting.