



International Union of Operating Engineers

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

Training Course Schedule

Courses from March 13, 2025 - May 12, 2025

| Course - Session | Date(s) |
|--|-----------------------------|
| Pipeline - Sideboom - Advanced Training | Mar 3, 2025 - Mar 15, 2025 |
| Pipeline - Excavator - Advanced training | Mar 3, 2025 - Mar 15, 2025 |
| Pipeline - Excavator - Right of Way "slip repair" - KENTUCKY | Mar 3, 2025 - Mar 15, 2025 |
| Pipeline - Angle Dozer - Advanced | Mar 3, 2025 - Mar 15, 2025 |
| Pipeline - Advanced HDD | Mar 3, 2025 - Mar 15, 2025 |
| Pipeline - Dozer/Excavator - Right of Way "slip repair" - KENTUCKY | Mar 3, 2025 - Mar 15, 2025 |
| Pipeline - Trench Box Training | Mar 10, 2025 - Mar 15, 2025 |
| Pipeline - Bending Operations | Mar 10, 2025 - Mar 15, 2025 |
| Pipeline - Hydro Excavation - Advanced | Mar 10, 2025 - Mar 15, 2025 |
| Pipeline - Hydro-Static Testing of Pipelines | Mar 10, 2025 - Mar 14, 2025 |
| Pipeline - Deckhand/Stringing Training - Advanced | Mar 10, 2025 - Mar 15, 2025 |
| Low Pressure Boiler Operations | Mar 10, 2025 - Mar 14, 2025 |
| HVAC Systems 2 | Mar 10, 2025 - Mar 14, 2025 |
| Crane Operations - Intro To Tower Crane Operations | Mar 10, 2025 - Mar 14, 2025 |
| Crane Operations - Assembly/Disassembly of Luffing Crawler Cranes | Mar 10, 2025 - Mar 21, 2025 |
| 40-Hour HAZWOPER | Mar 10, 2025 - Mar 14, 2025 |
| Pipeline - Beginner Live Draw Works Sideboom - Kentucky | Mar 10, 2025 - Mar 15, 2025 |
| Automatic Transfer Switch (ATS) for Generators | Mar 11, 2025 - Mar 13, 2025 |

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| | |
|--|-----------------------------|
| Energy Conservation | Mar 15, 2025 - Mar 18, 2025 |
| Blueprint Reading II for Stationary Engineers | Mar 16, 2025 - Mar 20, 2025 |
| Pipeline - Sideboom - Live Draw Works - Kentucky | Mar 17, 2025 - Mar 22, 2025 |
| Pipeline - Sideboom - Advanced Training | Mar 17, 2025 - Mar 29, 2025 |
| Pipeline - Excavator - Advanced training | Mar 17, 2025 - Mar 29, 2025 |
| Pipeline - Angle Dozer - Advanced | Mar 17, 2025 - Mar 29, 2025 |
| Pipeline - Excavator Procedures for Existing Live Pipelines | Mar 17, 2025 - Mar 29, 2025 |
| Pipeline - Excavator Procedures for Existing Live Pipelines - KENTUCKY | Mar 17, 2025 - Mar 29, 2025 |
| Pipeline - Advanced HDD | Mar 17, 2025 - Mar 29, 2025 |
| Pipeline - Bending Operations | Mar 17, 2025 - Mar 22, 2025 |
| Pipeline - Vacuworxs Pipelifter | Mar 17, 2025 - Mar 22, 2025 |
| Pipeline - Hydro Excavation - Advanced | Mar 17, 2025 - Mar 22, 2025 |
| Electrical Systems 1 | Mar 17, 2025 - Mar 21, 2025 |
| Crane Operations - Intro To Tower Crane Operations | Mar 17, 2025 - Mar 21, 2025 |
| Mechanics Training - Diesel Engine Fundamentals | Mar 17, 2025 - Mar 21, 2025 |
| Welding | Mar 17, 2025 - Mar 21, 2025 |
| Motor grader Operations (Level 1) | Mar 17, 2025 - Mar 21, 2025 |
| Asphalt Paving Operations | Mar 18, 2025 - Mar 20, 2025 |
| Chiller Efficiency | Mar 20, 2025 - Mar 22, 2025 |
| Pipeline - Sideboom - Intro to Pipeline Sideboom - KENTUCKY | Mar 24, 2025 - Mar 29, 2025 |
| Pipeline - Bending Operations | Mar 24, 2025 - Mar 29, 2025 |

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| | |
|--|-----------------------------|
| Pipeline - Vacuworxs Pipelifter | Mar 24, 2025 - Mar 29, 2025 |
| Electrical Systems 2 | Mar 24, 2025 - Mar 28, 2025 |
| GPS Machine Control Training | Mar 24, 2025 - Mar 28, 2025 |
| Excavation Operations | Mar 24, 2025 - Mar 28, 2025 |
| Crane Operations - Level 1 Crane Operations for Beginners | Mar 24, 2025 - Mar 28, 2025 |
| Crane Operations - All Terrain Crane Set-up & Operations | Mar 24, 2025 - Mar 28, 2025 |
| Pipeline - Hydro-Excavation | Mar 24, 2025 - Mar 29, 2025 |
| Certified Pool Operator | Mar 25, 2025 - Mar 27, 2025 |
| Pipeline - Sideboom - Hydraulic Controls | Mar 31, 2025 - Apr 18, 2025 |
| Pipeline - Sideboom - Hydraulic Controls - KENTUCKY | Mar 31, 2025 - Apr 18, 2025 |
| Pipeline - Excavator - Intermediate | Mar 31, 2025 - Apr 18, 2025 |
| Pipeline - Excavator - Intermediate - KENTUCKY | Mar 31, 2025 - Apr 18, 2025 |
| Pipeline - Excavator - Mat Handling/Bridge Building Training | Mar 31, 2025 - Apr 5, 2025 |
| Pipeline - Angle Dozer - Intermediate | Mar 31, 2025 - Apr 18, 2025 |
| Pipeline - Horizontal Directional Drilling with Mud Reclamation System | Mar 31, 2025 - Apr 18, 2025 |
| Pipeline - Deckhand Pipe Lifter | Mar 31, 2025 - Apr 5, 2025 |
| Pipeline - Hydro-Excavation | Mar 31, 2025 - Apr 5, 2025 |
| GPS Modeling and Takeoff | Mar 31, 2025 - Apr 4, 2025 |
| Crane Operations - Practical Testing for NCCCO Certification | Mar 31, 2025 - Apr 4, 2025 |
| Pipeline - Angle Dozer - Intermediate - KENTUCKY | Mar 31, 2025 - Apr 18, 2025 |
| Facility Water Chemistry & Treatment | Apr 1, 2025 - Apr 3, 2025 |

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|---|-----------------------------|
| OSHA 502 Update for Construction | Apr 1, 2025 - Apr 3, 2025 |
| Pipeline - ONLINE OILER TRAINING | Apr 1, 2025 - Apr 1, 2025 |
| IUOE Pipeline Business Agent and Steward Training | Apr 2, 2025 - Apr 3, 2025 |
| Advanced Controls & Building Automation Systems | Apr 5, 2025 - Apr 7, 2025 |
| Pipeline - Excavator Procedures for Existing Live Pipelines | Apr 7, 2025 - Apr 18, 2025 |
| Pipeline - Deckhand Pipe Lifter | Apr 7, 2025 - Apr 12, 2025 |
| Pipeline - Hydro-Excavation | Apr 7, 2025 - Apr 12, 2025 |
| Pump Maintenance & Operation | Apr 7, 2025 - Apr 10, 2025 |
| Excavation Operations | Apr 7, 2025 - Apr 11, 2025 |
| Crane Operations – Tower Crane Standards Training & Load Chart Review / NCCCO Practical Testing for Tower Crane Certification | Apr 7, 2025 - Apr 11, 2025 |
| Crane Operations - Intro To Luffing Crawler Crane Operations | Apr 7, 2025 - Apr 11, 2025 |
| Welding | Apr 7, 2025 - Apr 11, 2025 |
| Crane Operations - All Terrain Crane Set-up & Operations | Apr 7, 2025 - Apr 11, 2025 |
| Chiller Efficiency | Apr 10, 2025 - Apr 12, 2025 |
| NATE Test Prep | Apr 11, 2025 - Apr 13, 2025 |
| Basic Controls and Building Automation Systems | Apr 12, 2025 - Apr 14, 2025 |
| Pipeline - Deckhand Pipe Lifter | Apr 14, 2025 - Apr 18, 2025 |
| Pipeline - Hydro-Excavation | Apr 14, 2025 - Apr 18, 2025 |
| GPS Rover Training for Leica, Topcon and Trimble | Apr 14, 2025 - Apr 18, 2025 |
| Motorgrader Operations | Apr 14, 2025 - Apr 18, 2025 |

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| | |
|--|-----------------------------|
| Crane Operations - Level 2 Crane Operations | Apr 14, 2025 - Apr 18, 2025 |
| Rooftop Unit Maintenance & HVAC Troubleshooting | Apr 15, 2025 - Apr 18, 2025 |
| 2025 New Business Manager/Agent Training | Apr 15, 2025 - Apr 16, 2025 |
| Chief Engineer Course | Apr 22, 2025 - Apr 26, 2025 |
| GPS Modeling and Takeoff | Apr 22, 2025 - Apr 25, 2025 |
| Crane Operations - Crane Standards Training and Load Chart Review for Written Exam – Mobile Cranes | Apr 22, 2025 - Apr 25, 2025 |
| Programmable Logic Controller (PLC) | Apr 22, 2025 - Apr 24, 2025 |
| New Organizer Training | Apr 22, 2025 - Apr 25, 2025 |
| HAZWOPER Train-the-Trainer | Apr 23, 2025 - Apr 30, 2025 |
| Pipeline - Sideboom - Intro to Pipeline Sideboom | Apr 28, 2025 - May 3, 2025 |
| Pipeline - Excavator - Intro to pipeline excavator | Apr 28, 2025 - May 3, 2025 |
| Pipeline - Excavator - Mat Handling/Bridge Building Training | Apr 28, 2025 - May 3, 2025 |
| Pipeline - Angle Dozer - Beginner | Apr 28, 2025 - May 3, 2025 |
| Pipeline - HDD/Mud System - Repair & Maintenance of HDD Equipment | Apr 28, 2025 - May 3, 2025 |
| Crane Operations - Intro To Tower Crane Operations | Apr 28, 2025 - May 2, 2025 |
| Excavation Operations | Apr 28, 2025 - May 2, 2025 |
| Welding | Apr 28, 2025 - May 2, 2025 |
| Mechanics Training - Electronic Fundamentals | Apr 28, 2025 - May 2, 2025 |
| Mechanics Training - Tier 4 Diesel Engine Air Induction & Emissions Control | Apr 28, 2025 - May 2, 2025 |
| Pipeline - John Henry Rock Drilling - Kentucky | Apr 28, 2025 - May 3, 2025 |

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| | |
|---|-----------------------------|
| Basic Controls and Building Automation Systems | May 3, 2025 - May 5, 2025 |
| Pipeline - Sideboom - Intro to Pipeline Sideboom | May 5, 2025 - May 10, 2025 |
| Pipeline - Excavator - Intro to pipeline excavator | May 5, 2025 - May 10, 2025 |
| Pipeline - Angle Dozer - Beginner | May 5, 2025 - May 10, 2025 |
| Pipeline - Excavator Procedures for Existing Live Pipelines | May 5, 2025 - May 17, 2025 |
| Pump Maintenance & Operation | May 5, 2025 - May 8, 2025 |
| Cooling Tower Operation & Maintenance | May 5, 2025 - May 6, 2025 |
| 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 5, 2025 - May 7, 2025 |
| Bulldozer Operations | May 5, 2025 - May 9, 2025 |
| Welding | May 5, 2025 - May 9, 2025 |
| Pipeline - John Henry Rock Drilling - Kentucky | May 5, 2025 - May 10, 2025 |
| Pump Maintenance & Operation | May 9, 2025 - May 12, 2025 |
| Pipeline - Specific Task Sideboom Training | May 12, 2025 - May 17, 2025 |
| Pipeline - Specific Task Excavator Training | May 12, 2025 - May 17, 2025 |
| Pipeline - Specific Task Angle Dozer Training | May 12, 2025 - May 17, 2025 |
| Data Center Operations | May 12, 2025 - May 16, 2025 |

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Training Course Schedule

Training Course Descriptions

PIPELINE - SIDEBOOM - ADVANCED TRAINING

This is a two week course. The course will be 10 hours a day, 6 days a week, Monday - Saturday. The course will consist of limited classroom time and a majority of field training. Apprentices and Journeyman are encouraged to apply. Prior attendance in our Intermediate 3 week class is recommended before attending this class. A proficiency test will be given at the start of the class.

During this class, the operator will be challenged with different tasks such as:

- Lower - in procedures of longer sections of pipe
- Carry sections of pipe utilizing 3 or more Sidebooms
- Carry sections of pipe alongside excavators
- Carry Box sags
- Carry Sweeping Sags
- Learn about tie-in procedures
- How to properly feed a Bending machine
- How to thread pipe under flume pipes at creek/waterway crossings

PIPELINE - EXCAVATOR - ADVANCED TRAINING

This is a two week course. The course will be 10 hours a day, 6 days a week, Monday - Saturday. The course will consist of limited classroom time and a majority of time will be spent in the field. Apprentices and Journeyman are encouraged to apply. Prior attendance in our Intermediate 3 week excavator course is recommended before attending this class. A proficiency test will be given at the start of the class.

During this class, the operator will be challenged with different tasks such as:

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Training Course Schedule

- Build a ROW
- Excavate continuous Ditch correctly
- Excavate Bellholes where needed
- Excavate around Hotlines
- Excavate Creek/Waterways
- Work of Mats
- Pad and Backfill Pipe
- ROW Restoration
- Take up
- Excavate existing pipelines
-

This class will operate similar to a jobsite, in conjunction with building a mock pipeline.

The class to be held in Kentucky will be Advanced Winch Training.

PIPELINE - EXCAVATOR - RIGHT OF WAY "SLIP REPAIR" - KENTUCKY

This is a two week course, the class will run 6 days/week, 10 hours a day. This class is intended for proficient excavator operators. Previous attendance in a three week intermediate excavator class is recommended but not required. The following list of topics will be covered:

1. The unloading of equipment and materials needed to repair the slip.
2. The proper pot-holing procedures.
3. When, where, and how to build air bridges.

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4. How to excavate the live/existing pipeline properly and safely.
5. The proper procedures to install drains to Gas Company Specs.
6. How to properly inspect the pipeline for damage.
7. How to properly pad and backfill the newly repaired area.
8. Environmental control procedures.

This class will feature an actual slip repair and the participants will complete the process of repair and place the material in the proper place. The intent is to be as real as possible and have some fun doing it.

PIPELINE - ANGLE DOZER - ADVANCED

This is a two week course. The course will be 10 hours a day, 6 days a week, Monday - Saturday. The class will consist of limited classroom time and a majority of field training. Apprentices and Journeyman are encouraged to apply. Prior attendance in our Intermediate Angle Dozer class is recommended before attending this class. A proficiency test will be given at the start of the class.

During this class, the operator will be challenged with different tasks such as:

- Build sections of ROW for long periods
- Build ROW with PI's
- Build ROW with crossover
- Properly drag mats
- Build ROW out of Ditch Dirt
- Restore the ROW to as Good or Better than found

This class will operate very similar to a jobsite, while building a mock pipeline.

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PIPELINE - ADVANCED HDD

This is a two week course, the class will run 6 days/week, 10 hours a day. This class is intended for the more experienced HDD/MUD Tech operator. Previous attendance in the 3 week HDD class is recommended. Subjects to be covered are as follows:

1. Advanced Mud Reclamation Formula's.
2. The process of reaming and pulling pipe.
3. How to utilize off - track guidance.
4. In depth rig break-down and set-up.
5. Build a bore profile with gps computer generated as-builts.
6. Safety Procedures.

This class will feature real life HDD procedures, operators will be hands on in the field.

PIPELINE - DOZER/EXCAVATOR - RIGHT OF WAY "SLIP REPAIR" - KENTUCKY

This is a two week class, the course will run 6 days/week, 10 hours a day. This class is intended for more experienced operators. The following subjects shall be covered:

1. The proper way to establish a travel lane with-in an existing Right of Way.
2. The proper way to winch or drag materials up or down the Right of Way.



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3. The proper procedures to relay and relocate mud/material to stable area with-in the Right of Way boundaries.
4. The proper procedures to dry mud/material with Gas Company specified material.
5. The proper procedures to clean up the Right of Way.
6. Environmental restoration procedures.

The participants will be actively participating in a slip repair onsite.

PIPELINE - TRENCH BOX TRAINING

This is a one week specialized class, the class will run 6 days/week, 10 hours a day. This class is intended for experienced/proficient excavator operators.

In this course the operator will learn the following:

1. Proper procedures to assemble and disassemble a trench box
2. Proper procedures to carry a trench box in the pipeline industry
3. Different scenarios that a trench box is used for in the pipeline industry
4. Proper excavation procedures for the installation of a trench box
5. Proper backfill procedures for the installation of a trench box
6. Proper removal process for a trench box

This class will consist of field training with very little classroom time.

PIPELINE - BENDING OPERATIONS

BENDING OPERATIONS CLASS

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Training Course Schedule

This class is one week in length; six days total, Monday-Saturday, the class runs 10 hours a day. This class will consist of one instructor and 5 students.

Classes are intended for members with mathematical skills. This course will prepare you for working in the pipe bending operations of a pipeline project. The member needs to be prepared to learn a vast amount of knowledge in one week.

Classroom instruction involves mathematical formulas.

The Operations of this class will consist of the following:

- Calculating the circumference of a given diameter of pipe.
- Calculating simple bends.
- Calculating multiple bends in a single joint of pipe.
- Calculating Max degree of pull
- Establishing pin up mark
- Set-up and operation of mandrel " dependent on mandrel availability"

Students will have hands-on training in the operation of the bending machine and will have an opportunity to bend a joint of pipe. There is also hands on instruction in the use of digital protractors, scientific calculators, seam charts and pipe markings.

Also discussed are the enormous safety concerns that go along with bending pipe.

PIPELINE - HYDRO EXCAVATION - ADVANCED

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ADVANCED HYDRO-EXCAVATION CLASS

This class is one week in length; six days total, Monday – Saturday, the class runs 10 hours a day. The class will consist of one instructor and four students.

As the pipeline industry evolves, hydro-excavation is becoming one of the most popular way among gas companies to pothole/locate and excavate their existing hotlines. Hydro-excavation is considered one of the safest and most efficient ways to excavate and locate pipelines. As the demand for these machines rise in the industry, so will the demand for the skilled operators to operate them. This is a highly recommended course.

In this class the operator will have the opportunity to utilize the Hydro-excavation machine to locate underground utilities. In addition, we will be working inside a existing mock pipeline station to expose the underground utilities, digging a bell hole around the utilities, etc. This class is delivering/preparing operators for the future as this type of work continues to explode for the Operating Engineers.

PIPELINE - HYDRO-STATIC TESTING OF PIPELINES

This is a one week class. The class will run 6 consecutive days, Monday - Saturday, 10 hours a day.

This a brand new class offered through the National Pipeline Training Fund. The testing of pipelines is considered one of the most critical parts of the construction process. The process is also considered one of the most dangerous parts of the construction process and it is essential that IUOE operators train for the job. In this class, an operator will actually be testing a mock pipeline, just like on a jobsite. The following topics will be covered:

- Roles of the operating engineer while working in the testing crew
- Discuss the hazards of the testing crew
- Explain how to clean and clear the pipeline
- Explain the temperatures

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- Explain the pressure recorders and how to utilize them (set-up and put charts in them)
- The operator will actually fill a pipeline with water, test the section, and then dewater the pipeline.
- Explain/utilize brass deadweights
- Explain /utilize digital deadweights
- The operator will learn the process of hanging a manifold
- The process of loading a pig
- Proper operation of an air compressors and water pumps
- Explain the head pressure and how dangerous the air/water mixture is
- How to move a frac tank
- The operator will learn about the different style of pigs and what the uses are
- Testing vocabulary
- Testing safety

PIPELINE - DECKHAND/STRINGING TRAINING - ADVANCED

This class is intended for experienced operators, a proficiency test will be given at the start of class. This class will be 6 days in length, consisting of 10 hours of field training daily.

The following task's will be covered:

- How to properly load a stringing trailer
- How to properly skid pipe joints
- How to properly set-up a start joint
- How to properly string pipe along a ditch-line

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- How to properly string pipe in a tie-in situation (creek crossing, road crossing, etc.)
- How to properly position the machine in various scenario's while working on the ROW.
- How to properly string pipe on a hill side.
- All aspects of Stringing pipe shall be covered.

LOW PRESSURE BOILER OPERATIONS

Low Pressure Boiler Operations course will help to assist in preparing the Stationary Engineer for the proper operation of Low-Pressure boilers and will also help with preparing for the facility operating engineer licensing. This course provides a comprehensive overview of the latest information on the safe and efficient operation of low-pressure steam and hot water boilers, cooling systems, and related equipment. The course is divided into sections to aid comprehension of key concepts:

- Boiler Operation Principles
- Steam Boiler Fittings
- Steam Boiler Feedwater Systems
- Steam Systems
- Fuel Systems
- Draft Systems
- Boiler Water Treatment
- Boiler Operation Procedures
- Hot Water Boilers and Fittings
- Hot Water Boiler Accessories and Piping Systems
- Cooling Systems
- Boiler Operation Safety
- Boiler Operator Licensing

HVAC SYSTEMS 2

HVAC Systems 2 builds upon the students fundamental knowledge of heating, ventilation and air conditioning principles to teach the safe and efficient operation of systems found in facilities. Students completing the class will gain the following:

- Understanding of the operation of chillers, heat exchangers, pumps, fans and other system equipment.
- Understanding of the interaction between the different components in a system

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- Understanding of HVAC control systems.
- Ability to perform basic HVAC system troubleshooting.
- Ability to safely handle refrigerants.
- Participate in practical hands on exercises to reinforce learning outcomes.
- Ability to pass a basic HVAC competency exam.
- Opportunity to take the EPA 608 exams.

Students taking HVAC Systems 2 should have previously taken HVAC Systems 1, or have knowledge of system components and core HVAC principles.

CRANE OPERATIONS - INTRO TO TOWER CRANE OPERATIONS

Introduction to Tower Crane Operations (Level 1) - This course is for students with previous crane experience. The course will introduce students to three types of tower cranes: Hammerhead tower cranes, luffing boom tower cranes and self-erecting tower cranes. This course will cover cab controls and operating procedures. A major portion of the class will be hands on exercises teaching load control and operational dynamics.

CRANE OPERATIONS - ASSEMBLY/DISASSEMBLY OF LUFFING CRAWLER CRANES

Assembly/Disassembly of Luffing Crawler Cranes

This course will take the member through the hands-on step by step procedures to assemble and disassemble a Manitowoc MLC-165 with luffing boom and a Liebherr 1130 with luffing boom. Students will learn the similarities and differences these procedures have to similar cranes. Members will be expected to participate fully in the physical work of assembly and disassembly.

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40?HOUR HAZWOPER

Required for workers that perform activities that expose or potentially expose them to hazardous substances. This course is specifically designed for workers who are involved in clean-up operations, voluntary clean-up operations, emergency response operations, and storage, disposal, or treatment of hazardous substances or uncontrolled hazardous waste sites. Topics include protection against hazardous chemicals, elimination of hazardous chemicals, safety of workers and the environment and OSHA regulations. This course covers topics included in 29 CFR 1910.120.

PIPELINE - BEGINNER LIVE DRAW WORKS SIDEROOM - KENTUCKY

This is a one week class, the class runs 6 days/week, 10 hours a day. This class is intended for someone who has never operated a Live Draw-Works machine. The Sideboom you will be utilizing for class is a Caterpillar 572 - no hydraulics - all mechanical. Subjects to be covered are:

1. Basic controls of the machine, Clutches, Dogs, Brakes, ETC.
2. How to properly engage the brakes
3. How to properly engage the clutches
4. How to properly engage the dogs
5. How to use clutch and brake steering
6. How to cross-clutch steer on a hillside
7. How to properly boom in and out utilizing friction etc.
8. Safety and vocab

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AUTOMATIC TRANSFER SWITCH (ATS) FOR GENERATORS

The focus of this course is on Automatic Transfer Switches & Emergency Standby Generator and how they may be applied in a variety of settings and industrial sectors. Standby generators are used primarily to provide backup power if utility power from the utility electrical distribution system is lost.

This course will discuss the operation of Automatic Transfer Switches & Generators, their application, how they are integrated into the overall electrical system, auxiliary supporting equipment and generator package maintenance. This course will cover many practical examples and will be interactive for students to gain a broad overall understanding of standby generators.

At the completion of this course, students will be able to perform startup, commissioning and maintenance activities on automatic transfer switches and controllers related to generators. Students will learn about the transfer switch equipment that is currently being used in today's industry. Hands-on activity will comprise at least half of the time spent in training activities.

ENERGY CONSERVATION

Prerequisite: Students should have strong working knowledge of Electrical systems, HVAC systems and Building Automation systems.

Members of the International Union of Operating Engineers manage a large amount of the energy that is consumed in North America. Our involvement in this energy management endeavor is critical to its success. This course will explain the various aspects of energy management, metering, regulations, standards, energy auditing, and energy management solutions.

Please see course commercial: iuoenf.training/videos/energy-conservation.mp4

This is a lecture-based course:

Course Overview:

- [Introduction to Energy Conservation](#)
- [The Energy Star Program and Energy Benchmarking](#)

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Training Course Schedule

- [The US Green Building Council and LEED](#)
- [Effective Energy Management](#)
- [Metering and Monitoring](#)
- [Energy Unit Conversions](#)
- [Energy Audits and Assessments](#)
- [Energy Conservation Opportunities](#)
- [Energy Bills](#)
- [Calculating Energy Savings](#)
- [Energy Cost Calculations Workshop](#)
- [The Building Envelope](#)
- [Boilers and Combustion Devices](#)
- [Steam and Condensate Systems](#)
- [HVAC Systems](#)
- [Electric Energy Management](#)
- [Lighting](#)
- [Building Automation Systems](#)
- [Waste Heat Recovery](#)
- [Lesson 19: Advanced Technologies](#)
- [Building Commissioning](#)
- [Project Management](#)

BLUEPRINT READING II FOR STATIONARY ENGINEERS

Prerequisite: Students should have taken Blueprint Reading for Stationary Engineers or have similar work experience and blueprint knowledge.

Printreading for Heavy Commercial Construction covers information on construction materials and

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Training Course Schedule

methods, building process participants, project delivery methods, LEED[®] green building requirements, and the CSI MasterFormat[®]. Expanded topics in this class include project owner types, surveying, underground utility location, slip forms, building automation, interior trim, and new Energy Center prints.

Students will be also be exposed to various subjects related to MEP drawings on as large Commercial building specifications, Students will spend approximately 70% of classroom time with hands-on labs utilizing a variety of the drawings and specifications that are most often used as reference and guidance for the Stationary Engineer. Specific emphasis on owner branding, electrical, HVAC, and plumbing drawings and their use in the industry.

PIPELINE - SIDEBOOM - LIVE DRAW WORKS - KENTUCKY

Sideboom - Intermediate training

This class is a one week course. The course schedule is 10 hours a day, 6 days a week, Monday - Saturday. A typical day will consist of 2 hours of classroom training followed by 8 hours of practical field training.

Classes are intended for experienced operators, although apprentices with journeyman level skills are encouraged to apply. A proficiency test will be given at the beginning of the course.

This course will prepare you for working in the pipeline industry. The following subjects will be covered:

- A pipeline spread - Explain in depth each individual crew
- Live Draw works controls
- How to properly steer the sideboom around obstacles while carrying a section of pipe.
- How to catch the load that is being carried
- How to cross-clutch

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Training Course Schedule

- How to correctly carry pipe with the aid of a swamper
- How to carry a section of pipe with one or multiple machines
- Pipeline terminology and vocabulary
- Safety

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:

- 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

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Training Course Schedule

- All other various applications of the excavator throughout the rehabilitation process

Prerequisites:

Journeyman operator skills required

PIPELINE - EXCAVATOR PROCEDURES FOR EXISTING LIVE PIPELINES - KENTUCKY

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.

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- How to dig egresses
- Pipeline terminology
- Safety
- All other various applications of the excavator throughout the rehabilitation process

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Training Course Schedule

PIPELINE - VACUWORXS PIPELIFTER

VACUWORXS PIPELIFTER

This class is one week in length; six days total, Monday-Saturday, the class runs 10 hours a day consisting of 2 hours classroom followed by 8 hours of practical field training. The class will have one instructor and 5 students per class.

Classes are intended for experienced excavator operators. A proficiency test will be given at the beginning of the course to verify abilities.

This class will prepare the operator for the pipe handling procedures used in the pipeline industry. The subjects covered will be:

- Loading and unloading a stringing truck
- Proper procedure for racking pipe in a pipe yard
- Proper procedure for stringing pipe down the right of way
- How to look for proper chocking of the pipe
- How to properly carry a joint of pipe up hills and down hills
- How to carry pipe underneath overhead power lines
- Overall safety
- Maintenance
- Pipeline terminology

ELECTRICAL SYSTEMS 1

Electricity is a fundamental part of most tasks that the stationary engineer performs. Whether one works with motors, chillers, boilers, air handlers, lighting, or controls, electricity plays a part of each. This course equips the stationary engineer with knowledge of electrical principals, electrical

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safety, how to perform electrical calculations, and gives an understanding of both AC and DC electrical components. Students have the opportunity to also perform hands on activities to reinforce the coursework.

This course is a suggested pre-requisite for Electrical Systems 2 course.

MECHANICS TRAINING - DIESEL ENGINE FUNDAMENTALS

Mechanics Training – Diesel Engine Fundamentals

This course will give the student a strong foundation in Diesel engine fuel injection systems. Upon completion, participants will be able to:

- Identify and describe the purpose, functions, properties, and characteristics of diesel fuel injection systems.
- Identify and explain procedures for inspection, servicing, testing, and diagnosing problems associated with low-pressure and high-pressure fuel systems.
- Identify and describe the types, styles, and applications of mechanical and electronic governors.
- Identify and describe the operating principles of electronic signal processing systems used in electrical system control on modern diesel engines.

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

WELDING

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

MOTOR GRADER OPERATIONS (LEVEL 1)

Motor grader (Level 1) This class is for **Beginners Only**.

This course will focus on machine operation and control familiarization. This will help develop an understanding of how each control lever will work together during hands-on operations.

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Training Course Schedule

During this course you will also learn the processes of placing material, boxing, and cutting in roads with a Motor grader.

ASPHALT PAVING OPERATIONS

An Introduction into the Asphalt Paving Process. This course will cover the safety aspects as well as the responsibilities of the Operating Engineer during the paving process.

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.

PIPELINE - SIDEBOOM - INTRO TO PIPELINE SIDEBOOM - KENTUCKY

SIDEBOOM - BEGINNER

This class is a one-week course. The course schedule is 10 hours a day, 6 days a week, Monday-Saturday. A typical day will consist classroom training followed by practical field training. This class will consist of 1 instructor and 4 students.

Classes are intended for apprentice operators, although journeyman are also encouraged to apply.

This course will help prepare you for working in the pipeline industry. The following subjects will be covered:

- A pipeline spread – Explain in depth each individual crew.
- Sideboom controls.
- How to properly steer the sideboom around obstacles.

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Training Course Schedule

- How to catch the load that is being carried.
- How to carry a load using one sideboom..
- The multiple uses of a sideboom through various stages of pipeline construction.
- Pipeline terminology and vocabulary
- Safety

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.

GPS MACHINE CONTROL TRAINING

GPS Machine Control - This course will cover the three Major GPS machine control systems; Topcon , Trimble , and Leica. The majority of class time will be spent in the field, where members will be given the option to use the GPS brand of their choice. Indoor class time including any rainy days will be spent going over every aspect of the different software systems via PC Simulators. Members wishing to focus on one GPS system are free to do so (pending availability). Members wanting an overview of all three systems will have that option as well.

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 1 CRANE OPERATIONS FOR BEGINNERS

Crane Operations for Beginners (Level 1) - In this class students will be taught the requirements for crane inspection, the basics of crane set up including LMI's and LML's. This portion of the class has a hands-on approach. The largest portion of the class will be actual seat time instruction in the "How To" operate a crane safely and build on basic skills necessary to lift loads.

CRANE OPERATIONS - ALL TERRAIN CRANE SET-UP & OPERATIONS

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All Terrain Crane Set-up & Operations - During this one week course, the student will be entered into a crane yard rental scenario. They will learn safe driving habits along with maneuvering the crane with and without the boom dolly. They will install the counter weights, set-up and configure the crane in the scenario described by the instructor as if on a job site and then perform the scheduled task.

PIPELINE - HYDRO-EXCAVATION

HYDRO-EXCAVATION CLASS

This class is one week in length; six days total, Monday – Saturday, the class runs 10 hours a day. The class will consist of one instructor and four students.

As the pipeline industry evolves, hydro-excavation is becoming one of the most popular way among gas companies to pothole/locate and excavate their existing hotlines. Hydro-excavation is considered one of the safest and most efficient ways to excavate and locate pipelines. As the demand for these machines rise in the industry, so will the demand for the skilled operators to operate them. This is a highly recommended course. This class is no longer utilizing a Morooka mounted unit, the class has been upgraded to an actual Hydrovac Truck.

In this class the operator shall learn:

- The basic controls of a Vermeer VTX300 Hydro-vac Truck.
- The fundamentals for locating pipelines.
- How to locate a pipeline without damaging the protective coating.
- How to excavate a pipeline without damaging the protective coating
- Learn different trenching techniques.
- Learn the different nozzle selection
- Environmental concerns
- Maintenance

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Training Course Schedule

- Safety
- Terminology

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.

PIPELINE - SIDEBOOM - HYDRAULIC CONTROLS

SIDEBOOM – INTERMEDIATE TRAINING

This class is a three week course. The course schedule is 10 hours a day, 6 days a week, Monday - Saturday. A typical day will consist of 2 hours of classroom training followed by 8 hours of practical field training.

Classes are intended for experienced operators, although apprentices with journeyman level skills are encouraged to apply. A proficiency test will be given at the beginning of the course.

This course will prepare you for working in the pipeline industry. The following subjects will be covered:

- A pipeline spread – Explain in depth each individual crew
- Sideboom controls
- How to properly steer the sideboom around obstacles while carrying a section of pipe
- How to catch the load that is being carried
- How to carry a load using one sideboom or multiple machines
- How to correctly carry a joint of pipe with the aid of a swamper

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Training Course Schedule

- The multiple uses of a sideboom through various stages of pipeline construction
- Pipeline terminology and vocabulary
- Safety

PIPELINE - SIDEBOOM - HYDRAULIC CONTROLS - KENTUCKY

This class is a three week course. The course schedule is 10 hours a day, 6 days a week, Monday-Saturday. A typical day will consist of 2 hours of classroom training followed by 8 hours of practical field training.

Classes are intended for experienced operators, although apprentices with journeyman level skills are encouraged to apply. A proficiency test will be given at the beginning of the course.

This course will prepare you for working in the pipeline industry. The following subjects will be covered:

- A pipeline spread – Explain in depth each individual crew
- Sideboom controls
- How to properly steer the sideboom around obstacles while carrying a section of pipe
- How to catch the load that is being carried
- How to carry a load using one sideboom or multiple machines
- How to correctly carry a joint of pipe with the aid of a swamper
- The multiple uses of a sideboom through various stages of pipeline construction
- Pipeline terminology and vocabulary
- Safety

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PIPELINE - EXCAVATOR - INTERMEDIATE

EXCAVATOR – INTERMEDIATE TRAINING

This class is a three week course. The course schedule is 10 hours a day, 6 days a week, Monday-Saturday. A typical day will consist of 2 hours of classroom training followed by 8 hours of practical field training.

Classes are intended for experienced operators, although apprentices with journeyman level skills are encouraged to apply. A proficiency test will be given at the beginning of the course.

This course will prepare you for working in the pipeline industry. The following subjects will be covered:

- A pipeline spread – Explain in depth each individual crew
- All the various applications of an excavator throughout the many different stages of construction
- How to dig a pipeline sloped ditch
- How to dig the point of intersections
- How to dig safe bell holes
- How to properly plug out
- How to dig road bore approaches and creek crossings
- How to dig for a box sag
- Understanding the pipeline terminology and vocabulary words
- Safety

PIPELINE - EXCAVATOR - INTERMEDIATE - KENTUCKY

This class is a three week course. The course schedule is 10 hours a day, 6 days a week, Monday-

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Training Course Schedule

Saturday. A typical day will consist of 2 hours of classroom training followed by 8 hours of practical field training.

Classes are intended for experienced operators, although apprentices with journeyman level skills are encouraged to apply. A proficiency test will be given at the beginning of the course.

This course will prepare you for working in the pipeline industry. The following subjects will be covered:

- A pipeline spread – Explain in depth each individual crew
- All the various applications of an excavator throughout the many different stages of construction
- How to dig a pipeline sloped ditch in the hills
- How to dig the point of intersections in the hills
- How to dig safe bell holes in the hills
- How to properly plug out in the hills
- How to dig road bore approaches and creek crossings
- How to dig for a box sag
- Understanding the pipeline terminology and vocabulary words
- Safety

PIPELINE - EXCAVATOR - MAT HANDLING/BRIDGE BUILDING TRAINING

This is a one week course. The course will be 6 days in length, Monday - Saturday consisting of 10 hours a day of field training. Apprentices and Journeyman are encouraged to apply. A proficiency test will be given at the beginning of the class.

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Training Course Schedule

During the class, the operator will be challenged with different tasks utilizing mats.

- carrying single or multiple mats
- building bridges across wetlands or creek crossings
- rip-rapping mats
- lay mats down on the ROW
- Work with multiple excavators laying down large bridge mats

PIPELINE - ANGLE DOZER - INTERMEDIATE

ANGLE DOZER - INTERMEDIATE

This class is a three week course. The course schedule is 10 hours a day, 6 days a week, Monday - Saturday. A typical day will consist of 2 hours of classroom training followed by 8 hours of practical field training.

Classes are intended for experienced operators, although apprentices with journeyman level skills are encouraged to apply. A proficiency test will be given at the beginning of the course.

This course will prepare you for working in the pipeline industry. The following subjects will be covered:

- A pipeline spread – Explain in depth each individual crew
- How to build different types of pipeline Right-of-way
- How to properly topsoil a pipeline Right-of-way
- How to make a two-tone pipeline Right-of-way
- How to make a side hill cut in a pipeline Right-of-way

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Training Course Schedule

- All the various applications of an angle dozer throughout the many different stages of the pipeline construction process
- The angle blade, understanding the concept of why the material on a pipeline right of way is moved at 90 degrees, using the long and short corners of the blade
- Understanding the pipeline terminology and vocabulary words
- Safety

PIPELINE - HORIZONTAL DIRECTIONAL DRILLING WITH MUD RECLAMATION SYSTEM

HORIZONTAL DIRECTIONAL DRILLING WITH THE MUD RECLAMATION SYSTEM

This class is a three week course. The course schedule is 10 hours a day, 6 days a week, Monday-Saturday. A typical day will consist of 2 hours of classroom training followed by 8 hours of practical field training.

This class will start with the basic operation of the HDD machine first, as the class progresses, the operator will be challenged to operate the HDD in more complex scenarios all while incorporating the use of the Vermeer 250C mud reclamation system.

This course will prepare you for the HDD operations in the pipeline industry and the utility industry. The following subjects will be covered:

- How to drill various materials using different accessories
- Applications of the HDD machine in pipeline construction and in the utility industry.
- The different procedures of mixing chemicals for the mud tech position.
- How to use the F-5 Falcon locating instrument that tracks the drill stem.
- How to Log Bore while drilling.
- How to use the Kemtron 600X reclaimer system in conjunction with the drilling machine.
- How to use and understand different drilling profiles either by hand or the program itself.
- Explain how to understand clearance problems.
- How to use the Vermeer projects software system including all GPS components.

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Training Course Schedule

- How to send edit/send an LWD to a contractor successfully.
- Proper maintenance of an HDD machine.
- Terminology
- Safety

PIPELINE - DECKHAND PIPE LIFTER

DECKHAND PIPELIFTER CLASS

This class is one week in length; six days total, Monday-Saturday, the class runs 10 hours a day consisting of 2 hours classroom followed by 8 hours of practical field training. The class will have one instructor and 5 students per class.

Classes are intended for experienced excavator operators. A proficiency test will be given at the beginning of the course to verify abilities.

This class will prepare the operator for the pipe handling procedures used in the pipeline industry. The subjects covered will be:

- Loading and unloading a stringing truck.
- Proper procedure for racking pipe in a pipe yard.
- Proper procedure for stringing pipe down the right of way.
- How to look for proper chocking of the pipe.
- How to properly carry a joint of pipe up hills and down hills.
- How to carry pipe underneath overhead power lines.
- Overall safety
- Maintenance of the pipelifter
- Pipeline terminology

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Training Course Schedule

GPS MODELING AND TAKEOFF

GPS Modeling and Takeoff - In Modeling and Takeoff, members will learn the basics of creating a design Model for use in machines and rovers, as well as how to do a simple office takeoff for Bidding purposes. Members will be lead through the process of building at least one simple site project and a simple road project and will export them into all three GPS systems used at ITEC; Leica, Topcon, Trimble. Members will also create a simple site project Takeoff for Bidding purposes.

CAD software used in this class will be primarily Trimble Business Center. Trimble Business Center is a robust software capable of creating and exporting designs to any GPS system. Magnet office by Topcon is also on site and available to members.

CRANE OPERATIONS - PRACTICAL TESTING FOR NCCCO CERTIFICATION

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

PIPELINE - ANGLE DOZER - INTERMEDIATE - KENTUCKY

This class is a three week course. The course schedule is 10 hours a day, 6 days a week, Monday -

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Saturday. A typical day will consist of 2 hours of classroom training followed by 8 hours of practical field training.

Classes are intended for experienced operators, although apprentices with journeyman level skills are encouraged to apply. A proficiency test will be given at the beginning of the course.

This course will prepare you for working in the pipeline industry. The following subjects will be covered:

- A pipeline spread – Explain in depth each individual crew
- How to build different types of pipeline Right-of-way
- How to properly topsoil a pipeline Right-of-way
- How to make a two-tone pipeline Right-of-way
- How to make a side hill cut in a pipeline Right-of-way
- All the various applications of an angle dozer throughout the many different stages of the pipeline construction process
- The angle blade, understanding the concept of why the material on a pipeline right of way is moved at 90 degrees, using the long and short corners of the blade
- Understanding the pipeline terminology and vocabulary words
- Safety
- The skills taught in this class will be dealing with building ROW's in the hill country.

FACILITY WATER CHEMISTRY & TREATMENT

This seminar covers the chemistry behind plant & facility water treatment programs and how it helps ensure that water systems are safe from scale, corrosion, oxygen, carryover, and other issues. Hands on training of actual plant & facility water systems at the training center will also be included.

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Training Course Schedule

OSHA 502 UPDATE FOR CONSTRUCTION

OPEN TO IUOE INSTRUCTORS ONLY.

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

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.

IUOE PIPELINE BUSINESS AGENT AND STEWARD TRAINING

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Training Course Schedule

This class is intended for current Business Agents and/or members who are interested in the duties of a pipeline job steward.

The class will consist of 2 - 8 hour workshops.

The class will start at 8 AM.

The topics covered will be as follows:

1. Job Notices
2. Pre-Job Conferences
3. Pipeline Benefit Contribution Tracking Process
4. NPLA and the 2020-2023 changes
5. Jurisdiction
6. Jurisdiction Disputes
7. Joint Policy Committee
8. Grievances and the procedures involved
9. The Steward's role in the grievance procedure
10. Drug and Alcohol Testing
11. Market Recovery

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

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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

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.

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

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Training Course Schedule

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 - 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.

NATE TEST PREP

North American Technician Excellence (NATE) is a non-profit certification organization for HVAC-R technicians. The ITEC is an official NATE Testing Organization.

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Training Course Schedule

The NATE Prep is offered at the ITEC is designed for journey level engineers who have knowledge of fundamental electrical, HVAC and refrigeration principles, as well as practical field experience. The 3-Day prep session will review electrical theory, safety, circuits, troubleshooting and formulas. The session will also review HVAC system components, system operations and maintenance, system controls, refrigeration principles and air conditioning troubleshooting. The review will assist students to take the NATE "Core" and "Air Conditioning and Heat Pumps" certification tests. Both tests will be administered during the 3-day session and students must pass both tests to achieve NATE certification. Information about NATE tests and the purchase of study guides can be found at natex.org. (<https://natex.org/>)

It is recommended to have and review both study guides prior to the session.

[Core - NATE \(natex.org\)](https://natex.org/)

[Air Conditioning and Heat Pumps - NATE \(natex.org\)](https://natex.org/)

There is \$140 fee to be paid by the student for each test. (Test pricing subject to change per NATE)

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
- Describe the different types of control actions and when to use them
- Identify Building Automation System main components and where they are used

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Training Course Schedule

- 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



GPS ROVER TRAINING FOR LEICA, TOPCON AND TRIMBLE

GPS Rover Training - This course will focus on all three Major systems; Leica, Trimble, Topcon.

Members will learn the basics of all three systems during class room hours and will be given the option to focus on any one of the three systems in the field. Field exercises will include but are not limited to; Volume Calcs, Lay out, Grade Checking, Line work and Surface creation, Calibrating and set up of a job site, Importing and Exporting from Rover to Machine and Machine to Rover.

Total Station set up will also be taught.

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Training Course Schedule

MOTORGRADER OPERATIONS

This course will focus on upgrading the skills for the Operating Engineer on Motorgrader operations.

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
- 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

ROOFTOP UNIT MAINTENANCE & HVAC TROUBLESHOOTING

Light commercial Rooftop units are the topic of this class.. There will be extensive hands-on training for maintenance and service engineers who have had basic air conditioning training.

Students must have the EPA Universal Certification to participate in the practical activities of the course. The focus will be on identifying various components of RTU's , charging practices , troubleshooting , repair, and maintenance.

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Training Course Schedule

2025 NEW BUSINESS MANAGER/AGENT TRAINING

In accordance with Article XXIV, Subdivision 15 of the IUOE Constitution, the 2025 IUOE New Business Manager – Business Agent Training will be held **April 14th - 17th at the ITEC in Crosby, TX**. This training is **MANDATORY** for all new Business Managers and Business Agents who were either elected to office or employed after the most recent training session was conducted back in March 2024. Kindly note, if you were scheduled to take this training in March 2024 and you were unable to do so, then you should register for the 2025 training.

There are two full days (8:00 a.m. to 4:30 p.m.) of training scheduled for each day on Tuesday, April 15th and Wednesday, April 16th, so **ALL attendees should plan to arrive at the ITEC on Monday, April 14th and depart on the morning of Thursday, April 17th**. After you register for the training and make your flight arrangements, a room will be booked for you at the ITEC to coincide with those pre-set arrival and departure dates. The dress code for these training sessions is business casual, (e.g., khakis and collared/golf shirts; dresses/pantsuits, etc.). Jackets and ties are not required for gentlemen, and you are all encouraged to wear shirts with the IUOE steam gauge logo.

CHIEF ENGINEER COURSE

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

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Training Course Schedule

- 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.

CRANE OPERATIONS - CRANE STANDARDS TRAINING AND LOAD CHART REVIEW FOR WRITTEN EXAM – MOBILE CRANES

Crane Operations – Crane Standards Training and Load Chart Review for Written Exam – Mobile Cranes - This course will include standards from OSHA 1926.1400 and ASME B30.6, load chart and range diagram review.

PROGRAMMABLE LOGIC CONTROLLER (PLC)

This course is intended to instruct stationary engineers on the basics of programmable logic controllers. It covers basic programming of some of the most common equipment in the industry, basics needed for configuring and troubleshooting devices on a network, and industry best practices for installing and maintaining these systems. It will provide students with the tools needed to install and program PLCs. It will also orient students on methods of networking and troubleshooting SCADA systems and familiarize them with terminology and methods so that they can adapt these lessons to their facility's equipment.

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Training Course Schedule

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. New Organizer trainings are held at least twice annually.

HAZWOPER TRAIN-THE-TRAINER OPEN TO IUOE INSTRUCTORS ONLY

AUTHORIZES INSTRUCTOR TO TEACH: HAZWOPER – 16, 24 and 40-Hour, 8-Hour Refresher, 8-Hour Supervisor, and other applicable courses.

Covers HAZWOPER standards, teaching techniques, industrial hygiene and toxicology, hazard communication (includes GHS), respirators and respiratory protection, personal protective equipment, instrumentation and monitoring, confined space, medical monitoring, radiation, heat/cold stress, emergency response, decontamination, work zones, drum handling, and posttest.

PIPELINE - SIDEBOOM - INTRO TO PIPELINE SIDEBOOM SIDEBOOM - BEGINNER

This class is a one-week course. The course schedule is 10 hours a day, 6 days a week, Monday-Saturday. A typical day will consist classroom training followed by practical field training. This class will consist of 1 instructor and 4 students.

Classes are intended for apprentice operators, although journeyman are also encouraged to apply.

This course will help prepare you for working in the pipeline industry. The following subjects will be covered:

- A pipeline spread – Explain in depth each individual crew.

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International Union of Operating Engineers

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Training Course Schedule

- Sideboom controls.
- How to properly steer the sideboom around obstacles.
- How to catch the load that is being carried.
- How to carry a load using one sideboom..
- The multiple uses of a sideboom through various stages of pipeline construction.
- Pipeline terminology and vocabulary
- Safety

PIPELINE - EXCAVATOR - INTRO TO PIPELINE EXCAVATOR

EXCAVATOR – BEGINNER TRAINING

This class is a one week course. The course schedule is 10 hours a day, 6 days a week, Monday-Saturday. A typical class will consist of 1 day of classroom training followed by 5 days of practical field training.

Classes are intended for less experienced operators, **oilers** and **apprentices** are encouraged to apply.

This course will introduce you to the excavator techniques utilized in the pipeline industry. The following subjects will be covered with emphasize on the Sloped Ditching Technique.

- A pipeline spread – Explain in depth each individual crew
- All the various applications of an excavator throughout the many different stages of construction
- Students will be introduced to the excavator, go over the fundamentals of the machine
- An exhibition course will be set-up, students will test there ability by carrying weights through this course while operating the travel of the machine
- How to dig a pipeline sloped ditch.
- Students will learn how to build water-breakers with an excavator.
- Understanding the pipeline terminology and vocabulary words.
- Safety

PIPELINE - ANGLE DOZER - BEGINNER ANGLE DOZER - BEGINNER

This class is a one week course. The course schedule is 10 hours a day, 6 days a week, Monday-Saturday. A typical day will consist of 10 hours of practical field training.

Classes are intended for inexperienced operators, although **apprentices** are encouraged to apply.

This course will prepare you for working in the pipeline industry. The following subjects will be covered:

- A pipeline spread – Explain in each individual crew.

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Training Course Schedule

- How to properly topsoil a pipeline Right-of-way.
- How to make a side hill cut in a pipeline Right-of-way.
- All the various applications of an angle dozer throughout the many different stages of the pipeline construction process.
- The angle blade, understanding the concept of why the material on a pipeline right of way is moved at 90 degrees, using the long and short corners of the blade.
- Understanding the pipeline terminology and vocabulary words.
- Safety.

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.

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

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Training Course Schedule

- Safety

MECHANICS TRAINING - ELECTRONIC FUNDAMENTALS

Mechanics Training - Electronic Fundamentals

This course will give the student a strong foundation in 12 and 24 volt electrical systems used in mobile equipment. Upon completion, participants will be able to:

- Understand the electron flow in a circuit and how it relates to circuit troubleshooting.
- Identify and troubleshoot series, parallel, and series-parallel circuits.
- Demonstrate the use of a DVOM for troubleshooting electrical circuits.
- Identify and read the schematic symbols in a typical electrical schematic.
- Troubleshoot using a diagnostic code and understand how the code is generated.

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

MECHANICS TRAINING - TIER 4 DIESEL ENGINE AIR INDUCTION & EMISSIONS CONTROL

Mechanics Training - Tier 4 Diesel Engine Air Induction and Emissions Control

This course will give the student a strong foundation in Diesel engine air induction and emissions control. Upon completion, participants will be able to:

- Describe the functions, construction, types, styles, and applications of diesel engine intake systems and crankcase ventilation systems.
- Identify and describe the construction, types, styles, and application of turbochargers.
- Describe the functions, construction, and applications of diesel engine exhaust gas recirculation strategies.

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Training Course Schedule

- Explain the principles of operation of diesel exhaust emission aftertreatment systems and methods for performing inspection and diagnostic procedures.
- Identify and describe circuit monitoring strategies for out-of-range fault detection and identify and describe principles of fault detection and diagnosis.

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

PIPELINE - JOHN HENRY ROCK DRILLING - KENTUCKY

This class is one week in length; six days total, Monday - Saturday, the class runs 10 hours a day consisting of 2 hours classroom followed by 8 hours of practical field training. The class will have one instructor and 4 students per class.

Classes are intended for experienced excavator operators. A proficiency test will be given at the beginning of the course to verify abilities.

This course will prepare you for rock drilling operations in the pipeline industry. The following subjects will be covered:

- All the various applications of the John Henry machine.
- How to perform machine set-up, how to drill through rock, overburden, and how to "double-steal".
- Maintenance of the machine.
- Safety

COOLING TOWER OPERATION & MAINTENANCE

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Training Course Schedule

This seminar is focused on the care of evaporative cooling equipment. The course provides useful information about how to operate equipment for optimal performance and reliability. Students will learn the design of cooling towers. It covers water quality, water flow balance, water quantity, fill condition, fan systems, and overall maintenance.

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

Peer training on developing local Member Assistance Programs.

BULLDOZER OPERATIONS

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

Topics covered:

- Working on Slopes
- Slot Dozing
- Backfilling
- Cuts and Fills
- Working with Grade Control.

PIPELINE - SPECIFIC TASK SIDEBOOM TRAINING

This class will be considered open training for members who have been past attendees of the

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sideboom 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 - SPECIFIC TASK EXCAVATOR TRAINING

This class will be considered open training for members who have been past attendees 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 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 attendees 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



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previous intermediate class. This class is all about seat time.

There will be an Instructor available at all times.

DATA CENTER OPERATIONS

Data Center Operation is a core skill for Operating engineers. This course will introduce the student to Data Center equipment found in mission-critical facilities where power supply and environmental control interruption is not acceptable. The program will cover an overview of the Data Center safety guidelines (OSHA 10, NFPA 70e), basic electrical theory and power distribution, switch gear operation, emergency generators, manual & automatic transfer switches, Uninterruptible Power Systems (UPS), battery types and handling procedures, Data Center specific HVAC equipment, chilled water systems, rules governing work in a Data Center, airflow management, fire risk mitigation and suppression, and general techniques used in these facilities. This will also include hands on exercises in our classroom Data Center simulation.

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