



# International Union of Operating Engineers

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

## Training Course Schedule

### Courses from March 18, 2025 - May 17, 2025

Course - Session	Date(s)
Blueprint Reading II for Stationary Engineers	Mar 16, 2025 - Mar 20, 2025
Pipeline - Angle Dozer - Intermediate - KENTUCKY	Mar 31, 2025 - Apr 18, 2025
IUOE Pipeline Business Agent and Steward Training	Apr 2, 2025 - Apr 3, 2025
2025 New Business Manager/Agent Training	Apr 15, 2025 - Apr 16, 2025
New Organizer Training	Apr 22, 2025 - Apr 25, 2025
Pipeline - John Henry Rock Drilling - Kentucky	Apr 28, 2025 - May 3, 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
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
Pipeline - John Henry Rock Drilling - Kentucky	May 5, 2025 - May 10, 2025
Pipeline - Low Boy Driver Training	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

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## Training Course Schedule

Pipeline - Specific Task Angle Dozer Training	May 12, 2025 - May 17, 2025
Data Center Operations	May 12, 2025 - May 16, 2025
Pipeline - Low Boy Driver Training	May 12, 2025 - May 17, 2025
Pipeline - John Henry Rock Drilling - Kentucky	May 12, 2025 - May 17, 2025
Generator Maintenance & Operation	May 13, 2025 - May 16, 2025
OSHA 510 Safety & Health Standards for the Construction Industry	May 13, 2025 - May 16, 2025
Crane Operations - Level 1 Crane Operations for Beginners	May 13, 2025 - May 17, 2025
Motorgrader Operations	May 13, 2025 - May 16, 2025
Boiler System Efficiency	May 16, 2025 - May 18, 2025
OSHA 500 Trainer Course Construction Industry	May 17, 2025 - May 20, 2025
Basic Controls and Building Automation Systems	May 17, 2025 - May 19, 2025

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### Training Course Descriptions

## 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 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 - ANGLE DOZER - INTERMEDIATE - 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
- How to build different types of pipeline Right-of-way



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- 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.

## IUOE PIPELINE BUSINESS AGENT AND STEWARD TRAINING

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

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8. Grievances and the procedures involved
9. The Steward's role in the grievance procedure
10. Drug and Alcohol Testing
11. Market Recovery

## 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 14<sup>th</sup> - 17<sup>th</sup> 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 15<sup>th</sup> and Wednesday, April 16<sup>th</sup>, so **ALL attendees should plan to arrive at the ITEC on Monday, April 14<sup>th</sup> and depart on the morning of Thursday, April 17<sup>th</sup>.** 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.

## 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.



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## Training Course Schedule

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.

### 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

### 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.

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## Training Course Schedule

Classes are intended for apprentice operators, although journeymen 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.
- 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.

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## Training Course Schedule

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.
- 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 - 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

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## Training Course Schedule

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

### Prerequisites:

Journeyman operator skills required

## 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.

## 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

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## Training Course Schedule

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 - LOW BOY DRIVER TRAINING

### Low Boy Driver Training

This class is a one-week course; 6 days total, Monday-Saturday, the class runs 10 hours a day. A typical day will consist of two hours of classroom instruction followed by eight hours of actual field training. The class will have one instructor and four students.

This class is intended for CDL A operators that are looking to refresh their skills and knowledge.

This class will prepare the CDL A Driver for working with a "low boy" truck and trailer. During the class the following subjects will be covered:

- 45-degree ally dock
- 90-degree ally dock
- Straight line backing
- Hook and unhook from truck and trailer
- Unhook and prepare for loading equipment
- Hook after equipment is loaded

## PIPELINE - SPECIFIC TASK SIDEBOOM TRAINING

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



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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.

## 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.

## GENERATOR MAINTENANCE & OPERATION

This class is intended for Apprentice through Mid-level journeyman. It covers for both “theory and practical” knowledge on diesel generator operation.

The seminar will have three primary categories:

- 1) Diesel generator maintenance and operation
- 2) Safety with emphasis on OSHA standards, Title 29 1910 & 1926 Code of Federal Regulations
- 3) Basic electrical knowledge as per National Electrical Code guidelines Students will have hands on time with a diesel generator package.

## OSHA 510 SAFETY & HEALTH STANDARDS FOR THE CONSTRUCTION INDUSTRY

OPEN TO IUOE INSTRUCTORS ONLY

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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.

## 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.

## MOTORGRADER OPERATIONS

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

## 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.



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### **OSHA 500 TRAINER COURSE CONSTRUCTION INDUSTRY OPEN TO IUOE INSTRUCTORS ONLY**

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

### **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
- 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 though 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

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- Understand how a PID loop is written and how to tweak it in for the maximum performance
- Define the different types of programming method



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