



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)
HVAC Systems 2	Mar 10, 2025 - Mar 14, 2025
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

Visit <https://iuoe-itrs.org> for a Full Schedule and to Register for Classes

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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
Pipeline - Low Boy Driver Training	May 12, 2025 - May 17, 2025
Pipeline - John Henry Rock Drilling - Kentucky	May 12, 2025 - May 17, 2025

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Training Course Descriptions

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
- 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.

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



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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
- 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

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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
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

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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.

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.

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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.

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.
- 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

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- 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.
- 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.

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

Prerequisites:

Journeyman operator skills required

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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

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.

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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

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



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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 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.