



International Union of Operating Engineers

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

Training Course Schedule

Courses from October 30, 2024 - December 29, 2024

Course - Session	Date(s)
Pipeline - ONLINE OILER TRAINING	Nov 1, 2024 - Nov 1, 2024
Generator Maintenance & Operation	Nov 5, 2024 - Nov 8, 2024
Pipeline - ONLINE OILER TRAINING	Dec 1, 2024 - Dec 1, 2024
Mechanics Training - Hydraulic Fundamentals	Dec 2, 2024 - Dec 6, 2024
Pipeline - Sideboom - Intro to Pipeline Sideboom - KENTUCKY	Dec 2, 2024 - Dec 7, 2024
Pipeline - Sideboom - Intro to Pipeline Sideboom	Dec 2, 2024 - Dec 7, 2024
Pipeline - Excavator procedures for Waterway/Creek Crossings	Dec 2, 2024 - Dec 7, 2024
Pipeline - Excavator Procedures for Existing Live Pipelines - KENTUCKY	Dec 2, 2024 - Dec 14, 2024
Pipeline - Introduction to Horizontal Directional Drilling	Dec 2, 2024 - Dec 7, 2024
Pipeline - Hydro Excavation - Advanced	Dec 2, 2024 - Dec 7, 2024
Pipeline - John Henry Rock Drilling - Kentucky	Dec 2, 2024 - Dec 7, 2024
Welding	Dec 9, 2024 - Dec 13, 2024
Pipeline - Sideboom - Intro to Pipeline Sideboom	Dec 9, 2024 - Dec 14, 2024
Pipeline - Sideboom - Live Draw Works - Kentucky	Dec 9, 2024 - Dec 14, 2024
Pipeline - Excavator - Mat Handling/Bridge Building Training	Dec 9, 2024 - Dec 14, 2024
Pipeline - Introduction to Horizontal Directional Drilling	Dec 9, 2024 - Dec 14, 2024
Pipeline - Hydro Excavation - Advanced	Dec 9, 2024 - Dec 14, 2024
Pipeline - John Henry Rock Drilling - Kentucky	Dec 9, 2024 - Dec 14, 2024

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GPS Rover Training for Leica, Topcon and Trimble	Dec 9, 2024 - Dec 13, 2024
Advanced Controls & Building Automation Systems	Dec 14, 2024 - Dec 16, 2024
Pipeline - Sideboom - Intro to Pipeline Sideboom	Dec 16, 2024 - Dec 20, 2024
Pipeline - Sideboom - Live Draw Works - Kentucky	Dec 16, 2024 - Dec 20, 2024
Pipeline - Excavator - Intro to pipeline excavator	Dec 16, 2024 - Dec 20, 2024
Pipeline - Angle Dozer - Beginner - Kentucky	Dec 16, 2024 - Dec 20, 2024
Pipeline - Trench Box Training	Dec 16, 2024 - Dec 20, 2024
Pipeline - Introduction to Horizontal Directional Drilling	Dec 16, 2024 - Dec 20, 2024
Pipeline - Bending Operations	Dec 16, 2024 - Dec 20, 2024
Pipeline - Hydro-Excavation	Dec 16, 2024 - Dec 20, 2024
Pipeline - John Henry Rock Drilling - Kentucky	Dec 16, 2024 - Dec 20, 2024
GPS Machine Control Training	Dec 16, 2024 - Dec 20, 2024

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Training Course Schedule

Training Course Descriptions

PIPELINE - ONLINE OILER TRAINING

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

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

Topics discussed and included in the course:

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

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

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:

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- 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.

MECHANICS TRAINING - HYDRAULIC FUNDAMENTALS

Mechanics Training - Hydraulic Fundamentals

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

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

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

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.

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Training Course Schedule

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
- 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.
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Training Course Schedule

PIPELINE - EXCAVATOR PROCEDURES FOR WATERWAY/CREEK CROSSINGS

This is a one week course, 6 days, Monday - Saturday. 10 hours of training each day.

In this course operators will cover the following:

- Learn the proper excavation techniques of box sags.
- Learn the proper excavation techniques of sweeping sags.
- Learn how to properly open cut a creek/waterway utilizing a flume pipe.
- Learn how to properly thread a section of pipe under a flume pipe and lay the section in the waterway/creek.
- Learn how to properly backfill a creek/waterway.
- Learn how to carry a box sag and a sweeping sag.
- Learn how to properly relay dirt utilizing 2 or more excavators.

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.

This class is intended for experienced excavator operators.

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

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Training Course Schedule

- 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

PIPELINE - INTRODUCTION TO HORIZONTAL DIRECTIONAL DRILLING

This a one week course consisting of 6 days total, Monday - Saturday. The course will run 10 hours a day consisting of a mix of classroom and field training. No Prior drill experience is required. Apprentices and Journeyman are encouraged to apply. Members from all industry backgrounds are also encouraged to apply.

During the class, the operator will be introduced to the HDD machine and the following subjects will be covered:

- Introduction to the DitchWitch JT-40 HDD system
- Introduction to the Falcon F-5 locating system along with subsite marksman+
- Introduction to the latest GPS versions
- The basic functions of the drill will be covered
- Safety
- Vocabulary

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Training Course Schedule

PIPELINE - HYDRO EXCAVATION - ADVANCED

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 - 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.

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Training Course Schedule

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

WELDING

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

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
- How to correctly carry pipe with the aid of a swamper
- How to carry a section of pipe with one or multiple machines

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Training Course Schedule

- Pipeline terminology and vocabulary
- 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.

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

GPS ROVER TRAINING FOR LEICA, TOPCON AND TRIMBLE

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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.

ADVANCED CONTROLS & BUILDING AUTOMATION SYSTEMS

ADVANCED CONTROLS & BUILDING AUTOMATION SYSTEMS

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

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

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

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

- Describe the different types of control actions and when to use them
- Identify Building Automation System main components and where their used
- Define and select the proper Automation System for various locations
- Define the different types of Analog and Binary inputs and outputs
- Understand system wiring through various schematic diagrams of installed systems
- Wire Building Automation System main components
- Understand the various types of BAS communication protocols

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Training Course Schedule

- 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

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 - KENTUCKY 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.

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Training Course Schedule

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 - 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

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Training Course Schedule

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

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.

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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
- Safety
- Terminology

GPS MACHINE CONTROL TRAINING

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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.

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