



International Union of Operating Engineers

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

Training Course Schedule

Courses from October 6, 2024 - December 5, 2024

| Course - Session | Date(s) |
|--|-----------------------------|
| NATE Test Prep | Oct 4, 2024 - Oct 6, 2024 |
| OSHA 502 Update for Construction | Oct 8, 2024 - Oct 10, 2024 |
| Automated Lighting Controls by Lutron Electronics | Oct 28, 2024 - Oct 29, 2024 |
| 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 |

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Training Course Descriptions

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.

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)

OSHA 502 UPDATE FOR CONSTRUCTION

OPEN TO IUOE INSTRUCTORS ONLY.

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

AUTOMATED LIGHTING CONTROLS BY LUTRON ELECTRONICS

For Stationary engineers who wish to gain a better understanding of networked lighting control systems along with how to maintain and troubleshoot them.

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Lutron's founder, Joel Spira, invented the first solid state electronic dimmer in 1959. Fast forward to the present day and the world of lighting controls has greatly advanced. In this class you will learn about the most popular commercial Lutron systems installed over the past decade. These products are found in hundreds of thousands of buildings across North America and the world. Commercial lighting systems will often fall under the purview of facilities management so a firm understanding of their maintenance ensures that the lighting system runs as smoothly as the rest of the building.

The duration of this course will be two days. It will act as a knowledge primer for the variety of commercial legacy Lutron systems a stationary engineer may find. We will also introduce the future of Lutron lighting controls and our newest commercial system.

Detailed topics will include:

- Online prerequisite learning plan introducing dimming technology and the Lutron story
- Instructor-led presentations relating to legacy Grafik Eye QS, Energi Savr Node, and panels
- Overview of Lutron's Vive and Quantum systems
- How to control the Quantum Vue Facilities Management software and use it in troubleshooting
- Work on a live Quantum system test wall, program and introduce faults in real-time
- Introduction to Lutron's newest cloud-connected solution, Athena
- Best Practices for Asset Management and Planning
- Update on Fluorescent to LED retrofit kits
- Tour of IUOE's Quantum Lighting Control System and software

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

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- 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:

- 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.

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- 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.

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

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- 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 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

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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:

- 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

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This is 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

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

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

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