



International Union of Operating Engineers

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

Training Course Schedule

Courses from March 28, 2024 - May 27, 2024

Course - Session	Date(s)
Pipeline - ONLINE OILER TRAINING	Apr 8, 2024 - Apr 8, 2024
Chiller Efficiency	Apr 10, 2024 - Apr 12, 2024
HAZWOPER Train-the-Trainer	Apr 16, 2024 - Apr 23, 2024
Pipeline - ONLINE OILER TRAINING	May 1, 2024 - May 1, 2024
Welding	May 6, 2024 - May 10, 2024
Crane Operations - LMI Setup & Crane Operations	May 6, 2024 - May 10, 2024
Crane Operations - Liebherr 81K.1 Fast Erecting Tower Crane Assembly/Disassembly	May 6, 2024 - May 10, 2024
Pipeline - Specific Task Excavator Training	May 13, 2024 - May 18, 2024
Pipeline - Specific Task Angle Dozer Training	May 13, 2024 - May 18, 2024
Pipeline - Excavator Procedures for Existing Live Pipelines	May 13, 2024 - May 25, 2024
Boiler System Efficiency	May 13, 2024 - May 15, 2024
Pipeline - HDD/Mud System - Repair & Maintenance of HDD Equipment	May 13, 2024 - May 18, 2024
OSHA 510 Safety & Health Standards for the Construction Industry	May 14, 2024 - May 17, 2024
Mechanics Training - Intro to Diesel Laptops & Diagnostic Software	May 14, 2024 - May 17, 2024
GPS Training for Instructors Only	May 14, 2024 - May 16, 2024
Crane Operations - Intro To Luffing Crawler Crane Operations	May 14, 2024 - May 18, 2024

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

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Training Course Schedule

Tractor Loader-Backhoe Operations	May 14, 2024 - May 17, 2024
OSHA 500 Trainer Course Construction Industry	May 18, 2024 - May 21, 2024
Indoor Air Quality	May 18, 2024 - May 20, 2024
Excavation Operations	May 20, 2024 - May 24, 2024
Crane Operations - Level 2 Luffing Crawler Crane Operations	May 20, 2024 - May 24, 2024
Crane Operations - Practical Testing for NCCCO Certification	May 20, 2024 - May 24, 2024
HVAC Systems 1	May 20, 2024 - May 24, 2024
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 21, 2024 - May 23, 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.

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.

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International Union of Operating Engineers

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Training Course Schedule

HAZWOPER TRAIN-THE-TRAINER OPEN TO INSTRUCTORS

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.

WELDING

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

CRANE OPERATIONS - LMI SETUP & CRANE OPERATIONS

LMI Set-Up & Crane Operations (Level 2) - This course is an entry level course on the set up and operations of a mobile crane. This course has classroom and hands-on exercises that cover basic crane knowledge, load charts, daily inspection, LMI set-up (for a variety of cranes), outrigger and jib set-up, crane operations, and seat time.

CRANE OPERATIONS - LIEBHERR 81K.1 FAST ERECTING TOWER CRANE ASSEMBLY/DISASSEMBLY

Liebherr 81K.1 Fast Erecting Tower Crane Assembly/Disassembly - This course will cover the manufacturers procedures of erection, dismantle and climbing of the Liebherr 81K.1 Fast Erecting Tower Crane. Also covered is the inspection and setting of all safety limits. Students will gain hands-on experience of the controls for operating while erecting and dismantling the crane. During the multiple erect and dismantles of the crane during the week, changes in jib configuration will be performed. Load testing and programming of operational and load limits will also be performed.

PIPELINE - SPECIFIC TASK EXCAVATOR TRAINING

This class will be considered open training for members who have been past attendee's of the



International Union of Operating Engineers

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

Training Course Schedule

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 attendee's 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.

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.



International Union of Operating Engineers

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

Training Course Schedule

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

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.

PIPELINE - HDD/MUD SYSTEM - REPAIR & MAINTENANCE OF HDD EQUIPMENT

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International Union of Operating Engineers

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

Training Course Schedule

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
- Safety

OSHA 510 SAFETY & HEALTH STANDARDS FOR THE CONSTRUCTION INDUSTRY

OPEN TO IUOE INSTRUCTORS ONLY

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Training Course Schedule

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.

MECHANICS TRAINING - INTRO TO DIESEL LAPTOPS & DIAGNOSTIC SOFTWARE

Mechanics Training - Introduction to Diesel Laptops and Diagnostic Software -

In this course, members will be given an introduction to the diesel laptops diagnostic software and hardware, along with applications of these tools.

Topics will include:

- Introduction to the TEXA software
- Aftertreatment
- Electrical 1
- Electrical 2
- Data bus Diagnostics

GPS TRAINING FOR INSTRUCTORS ONLY

GPS Training for Instructors Only - Courses are available to active IUOE Instructors only.

CRANE OPERATIONS - INTRO TO LUFFING CRAWLER CRANE OPERATIONS



International Union of Operating Engineers

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

Training Course Schedule

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.

TRACTOR LOADER-BACKHOE OPERATIONS

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

Topics covered:

- Trenching
- Benching
- Sloping
- Trench Box Work
- Backfilling
- Layout.

OSHA 500 TRAINER COURSE CONSTRUCTION INDUSTRY OPEN TO IUOE INSTRUCTORS ONLY

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

INDOOR AIR QUALITY

This course covers the vast issues of IAQ in commercial buildings and how to handle the everyday problems, how to prevent and solve IAQ problems effectively, how to work with building

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International Union of Operating Engineers

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

Training Course Schedule

management and owners in developing an IAQ maintenance and tracking program, and explains the latest IAQ concerns such as airborne contaminants, mold, and radon mitigation.

EXCAVATION OPERATIONS

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 2 LUFFING CRAWLER CRANE OPERATIONS

Level 2 Luffing Crawler Crane Operations - This course is available to members that have successfully completed an Intro to Luffing Crawler Cranes Operations course at ITEC.

Prerequisites: Member must also be certified/licensed for mobile hydraulic and/or lattice cranes. Certifications/Licenses include OECP, NCCCO, Red Seal.

CRANE OPERATIONS - PRACTICAL TESTING FOR NCCCO

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International Union of Operating Engineers

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

Training Course Schedule

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

HVAC SYSTEMS 1

Heating Ventilation Air Conditioning and Refrigeration are core topics for Stationary Engineers.

This course is designed to give students an solid understanding of HVACR. After taking this class students will have:

- Knowledge of fundamental refrigeration principles.
- Knowledge of fundamental HVAC principles.
- Knowledge of HVAC system components.
- Knowledge of HVAC control systems.
- Understand air comfort and quality.
- Ability to solder and braze connections for piping systems.

This course includes hands on training with state of the art tools and equipment.

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

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International Union of Operating Engineers

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

Training Course Schedule

RECOVERY AND SUPPORT

Peer training on developing local Member Assistance Programs.

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