



# International Union of Operating Engineers

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

## H&P Construction (NTF) Training Course Schedule

### Courses from May 2, 2024 - July 1, 2024

Course - Session	Date(s)
Crane Operations - Practical Testing for NCCCO Certification	Apr 29, 2024 - May 3, 2024
Excavation Operations	Apr 29, 2024 - May 3, 2024
Mechanics Training - Electronic Fundamentals	Apr 29, 2024 - May 3, 2024
GPS Training for Instructors Only	Apr 30, 2024 - May 2, 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
Generator Maintenance & Operation	May 7, 2024 - May 10, 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
Bulldozer Operations	May 14, 2024 - May 18, 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
Tractor Loader-Backhoe Operations	May 14, 2024 - May 17, 2024
OSHA 500 Trainer Course Construction Industry	May 18, 2024 - May 21, 2024
Excavation Operations	May 20, 2024 - May 24, 2024

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

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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
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
Welding	Jun 3, 2024 - Jun 7, 2024
Teaching Techniques I	Jun 3, 2024 - Jun 7, 2024
Mechanics Training - Hydraulic Fundamentals	Jun 3, 2024 - Jun 7, 2024
OSHA 511 Occupational Safety and Health Standards for General Industry	Jun 4, 2024 - Jun 7, 2024
OSHA 501 Safety & Health Standards for General Industry	Jun 8, 2024 - Jun 11, 2024
Drone Training	Jun 10, 2024 - Jun 14, 2024
Excavation Operations	Jun 10, 2024 - Jun 14, 2024
GPS Training for Instructors Only	Jun 11, 2024 - Jun 14, 2024
Crane Operations – Tower Crane Standards Training & Load Chart Review / NCCCO Practical Testing for Tower Crane Certification	Jun 18, 2024 - Jun 22, 2024
Crane Operations - Level 2 Crane Operations	Jun 18, 2024 - Jun 22, 2024
Excavation Operations	Jun 24, 2024 - Jun 28, 2024
Welding	Jun 24, 2024 - Jun 28, 2024
Crane Operations - Practical Testing for NCCCO Certification	Jun 24, 2024 - Jun 28, 2024

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## H&P Construction (NTF) Training Course Schedule

### Training Course Descriptions

## CRANE OPERATIONS - PRACTICAL TESTING FOR NCCCO 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

## EXCAVATION OPERATIONS



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**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.

## MECHANICS TRAINING - ELECTRONIC FUNDAMENTALS

### Mechanics Training - Electronic Fundamentals

This course will give the student a strong foundation in 12 and 24 volt electrical systems used in mobile equipment. Upon completion, participants will be able to:

- Understand the electron flow in a circuit and how it relates to circuit troubleshooting.
- Identify and troubleshoot series, parallel, and series-parallel circuits.
- Demonstrate the use of a DVOM for troubleshooting electrical circuits.
- Identify and read the schematic symbols in a typical electrical schematic.
- Troubleshoot using a diagnostic code and understand how the code is generated.

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



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### GPS TRAINING FOR INSTRUCTORS ONLY

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

### 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.

### 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



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- 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**

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

## BULLDOZER OPERATIONS



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## H&P Construction (NTF) 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.

## CRANE OPERATIONS - INTRO TO LUFFING CRAWLER CRANE OPERATIONS

**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

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## H&P Construction (NTF) Training Course Schedule

- 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.

## 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.

## 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.





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### TEACHING TECHNIQUES I

Teaching Techniques I is designed especially for part-time, new or recently hired instructors. The course presents useful introductory concepts and also requires actual practice teaching with constructive feedback. It is conducted over a 4-½ day period. It will provide instructors with all materials and demonstrate various teaching techniques for classroom application and meets the U.S. Department of Labor requirements for apprentice instructor training.

### 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.

### OSHA 511 OCCUPATIONAL SAFETY AND HEALTH STANDARDS FOR GENERAL INDUSTRY

#### OPEN TO IUOE INSTRUCTORS ONLY

This course covers OSHA Standards, policies, and procedures in general industry. Topics include scope and application of the OSHA General Industry Standards, general industry principles and special emphasis on those areas in general industry which are most hazardous.



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## H&P Construction (NTF) Training Course Schedule

Completion of this class is required prior to taking the OSHA 501 class.

### **OSHA 501 SAFETY & HEALTH STANDARDS FOR GENERAL INDUSTRY**

**OPEN TO IUOE INSTRUCTORS ONLY**

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

### **DRONE TRAINING**

This will be a comprehensive look at the use and versatility of Drones on today's construction projects. After completing this course you will be able to prepare for your Commercial Drone Pilot's License Test.

### **CRANE OPERATIONS – TOWER CRANE STANDARDS TRAINING & LOAD CHART REVIEW / NCCCO PRACTICAL TESTING FOR TOWER CRANE CERTIFICATION**

**Crane Operations – Tower Crane Standards Training & Load Chart Review / NCCCO Practical Testing for Tower Crane Certification** - This course will include standards from OSHA 1926.1435 and ASME B30.3, load chart and range diagram review.

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 for Tower Crane only.



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**Members must bring PPE to include hardhat, boots, gloves, safety vest and safety glasses to training.**

### **CRANE OPERATIONS - LEVEL 2 CRANE OPERATIONS**

**Level 2 Crane Operations** – This course promotes the process for making the necessary decisions to make safe lifts in the field. Training incorporates hands on tasks that include the following –

- Difficult Driving/Setup
- Selecting Proper Boom Modes
- Handling Jersey Barriers
- Loading/Unloading Crane on Trailer
- Pile Driving
- Tilt-up Operations
- Pick and Carry Operations
- Heavy Lift and Block Reeving
- Steel Erection
- Personnel Lifts
- Two Crane Picks

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