



International Union of Operating Engineers

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

Training Course Schedule

Courses From 01/02/2026 - 07/02/2026

Course - Session	Date(s)
Welding	01/05/2026 - 01/09/2026
Electrical Systems 1	01/05/2026 - 01/09/2026
Pipeline - Excavator - Intermediate Excavator	01/05/2026 - 01/24/2026
Pipeline - Sideboom - Intermediate Sideboom Hydraulic Controls	01/05/2026 - 01/24/2026
Pipeline - Excavator - Rough Terrain/Hill Procedures/Winching - KENTUCKY	01/05/2026 - 01/24/2026
Crane Operations - Practical Testing for NCCCO Certification	01/05/2026 - 01/09/2026
Pipeline - Hydro-Excavation Truck Training	01/05/2026 - 01/10/2026
Pipeline - Deckhand Pipe Lifter	01/05/2026 - 01/10/2026
Pipeline - Angle Dozer - Rough Terrain/Hill Procedures/Winching - KENTUCKY	01/05/2026 - 01/24/2026
GPS Machine Control	01/05/2026 - 01/09/2026
Pipeline - Angle Dozer - Intermediate Angle Dozer	01/05/2026 - 01/24/2026
Pipeline - HDD - Intermediate Horizontal Directional Drilling/Mud Tech Vermeer Control	01/05/2026 - 01/24/2026
Pipeline - Excavator - "Pipe joints/Pipe sections" Handling Procedures for Excavator	01/05/2026 - 01/10/2026
Pipeline - Sideboom - Live Draw Works - Kentucky	01/05/2026 - 01/24/2026
Excavation Operations	01/05/2026 - 01/09/2026
Asphalt Paving Operations	01/06/2026 - 01/08/2026
Instrumentation & Controls	01/06/2026 - 01/10/2026
Chiller Efficiency	01/08/2026 - 01/10/2026

Visit <https://iuoetraining.combobulate.io> for a Full Schedule and to Register for Classes

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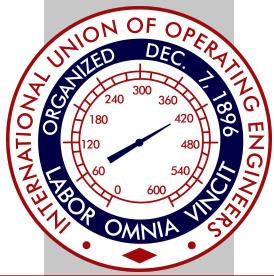
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Training Course Schedule

Data Center Operations	01/11/2026 - 01/15/2026
Chief Engineer Course	01/12/2026 - 01/16/2026
Pipeline - Hydro-Excavation Truck Training	01/12/2026 - 01/17/2026
Pipeline - Deckhand Pipe Lifter	01/12/2026 - 01/17/2026
Crane Operations - Level 1 Crane Operations for Beginners	01/12/2026 - 01/16/2026
Low Pressure Boiler Operations	01/12/2026 - 01/16/2026
Pipeline - Excavator - Excavation Class for Compressor Station Work	01/12/2026 - 01/24/2026
GPS Modeling and Takeoff	01/12/2026 - 01/16/2026
Crane Operations - Intro to Tower Crane	01/12/2026 - 01/16/2026
Asphalt Paving Operations	01/13/2026 - 01/15/2026
Basic Controls & Building Automation Systems	01/16/2026 - 01/18/2026
Welding	01/19/2026 - 01/23/2026
40 Hour HAZWOPER	01/19/2026 - 01/23/2026
Pipeline - Hydro-Excavation Truck Training	01/19/2026 - 01/24/2026
Pipeline - Deckhand Pipe Lifter	01/19/2026 - 01/24/2026
Crane Operations - Crane Standards Training and Load Chart Review for Written Exam	01/19/2026 - 01/23/2026
Motorgrader Operations	01/19/2026 - 01/23/2026
Pipeline - Hydro-Static Testing of Pipelines	01/19/2026 - 01/24/2026
Crane Operations – Tower Crane Standards Training & Load Chart Review / NCCCO Tower Crane Certification Test	01/19/2026 - 01/23/2026
Testing & Balancing for Air & Hydronic Systems	01/19/2026 - 01/23/2026

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Asphalt Milling Machine Operations	01/20/2026 - 01/22/2026
Boiler Operations 1	01/21/2026 - 01/25/2026
HVAC Systems 1	01/21/2026 - 01/25/2026
Advanced Controls & Building Automation Systems	01/24/2026 - 01/26/2026
Pipeline - Bending - Darby Bending Operator Classes	01/26/2026 - 01/31/2026
Pipeline - Excavator - Intermediate Excavator	01/26/2026 - 02/13/2026
Pipeline - Excavator - Mat Handling/Bridge Building Training	01/26/2026 - 01/31/2026
Pipeline - Sideboom - Intermediate Sideboom Hydraulic Controls	01/26/2026 - 02/13/2026
Pipeline - Excavator - Rough Terrain/Hill Procedures/Winching - KENTUCKY	01/26/2026 - 02/13/2026
Pipeline - Hydro-Excavation Truck Training	01/26/2026 - 01/31/2026
Pipeline - Sideboom - Rough Terrain/Hill Procedures/Winching - KENTUCKY	01/26/2026 - 02/13/2026
Pipeline - Deckhand Pipe Lifter	01/26/2026 - 01/31/2026
Pipeline - HDD - Intermediate Horizontal Directional Drilling/Mud Tech Ditch Witch	01/26/2026 - 02/13/2026
Pipeline - Angle Dozer - Rough Terrain/Hill Procedures/Winching - KENTUCKY	01/26/2026 - 02/13/2026
Pipeline - Hydro-Static Testing of Pipelines	01/26/2026 - 01/31/2026
Pipeline - Angle Dozer - Intermediate Angle Dozer	01/26/2026 - 02/13/2026
Welding	02/02/2026 - 02/06/2026
Pipeline - Bending - Darby Bending Operator Classes	02/02/2026 - 02/07/2026
Crane Operations - Practical Testing for NCCCO Certification	02/02/2026 - 02/06/2026
Pipeline - Hydro-Excavation Truck Training	02/02/2026 - 02/07/2026

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Crane Operations - Intro To Luffing Crawler Crane Operations	02/02/2026 - 02/06/2026
Pipeline - Hydro-Static Testing of Pipelines	02/02/2026 - 02/07/2026
Pipeline - Excavator - Excavator Procedures for Existing Live Pipelines	02/02/2026 - 02/13/2026
Pipeline - Vacuworxs Pipelifter	02/02/2026 - 02/07/2026
Programmable Logic Controller (PLC)	02/02/2026 - 02/04/2026
Excavation Operations	02/02/2026 - 02/06/2026
Asphalt Milling Machine Operations	02/03/2026 - 02/05/2026
Asphalt Paving Operations	02/03/2026 - 02/05/2026
Electrical Troubleshooting & Variable Frequency Drive Operations	02/05/2026 - 02/08/2026
Energy Conservation	02/07/2026 - 02/10/2026
Pipeline - Bending - Darby Bending Operator Classes	02/09/2026 - 02/14/2026
HVAC Systems 2	02/09/2026 - 02/13/2026
Electrical Systems 2	02/09/2026 - 02/13/2026
Pipeline - Hydro-Excavation Truck Training	02/09/2026 - 02/13/2026
Rigger Level 1 & Signalperson Practical Exams for NCCCO Certification	02/09/2026 - 02/13/2026
Crane Operations - Intro to Tower Crane	02/09/2026 - 02/13/2026
Pipeline - Hydro-Static Testing of Pipelines	02/09/2026 - 02/14/2026
Pipeline - Vacuworxs Pipelifter	02/09/2026 - 02/14/2026
Asphalt Milling Machine Operations	02/10/2026 - 02/12/2026
Solar Panel Installation Maintenance & Troubleshooting	02/11/2026 - 02/14/2026

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Welding	02/16/2026 - 02/20/2026
Pump Maintenance & Operation	02/16/2026 - 02/19/2026
Pipeline - Bending - Darby Bending Operator Classes	02/16/2026 - 02/21/2026
Motorgrader Operations	02/16/2026 - 02/20/2026
Crane Operations - LMI Setup & Crane Operations	02/16/2026 - 02/20/2026
Pipeline - Hydro-Static Testing of Pipelines	02/16/2026 - 02/21/2026
OSHA 502 Update for Construction	02/17/2026 - 02/19/2026
Asphalt Paving Operations	02/17/2026 - 02/19/2026
Blueprint Reading for Stationary Engineers	02/18/2026 - 02/22/2026
Basic Controls & Building Automation Systems	02/21/2026 - 02/23/2026
Pipeline - Horizontal Directional Drilling Profile Class	02/23/2026 - 02/28/2026
Pipeline - Hydro-Excavation Truck Training	02/23/2026 - 02/28/2026
Pipeline - Excavator - Intro to Pipeline Excavator	02/23/2026 - 03/05/2026
Crane Operations - Intro To Luffing Crawler Crane Operations	02/23/2026 - 02/27/2026
Pipeline - Angle Dozer - Intro to Pipeline Angle Dozer	02/23/2026 - 03/05/2026
Pipeline - Sideboom - Intro to Pipeline Sideboom	02/23/2026 - 03/05/2026
Pipeline - Excavator - Intermediate Excavator - KENTUCKY	02/23/2026 - 03/14/2026
GPS Machine Control	02/23/2026 - 02/27/2026
Crane Operations - Intro to Tower Crane	02/23/2026 - 02/27/2026
Pipeline - Sideboom - Intermediate Sideboom Hydraulic Controls - KENTUCKY	02/23/2026 - 03/14/2026

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Pipeline - Angle Dozer - Intermediate Angle Dozer - KENTUCKY 02/23/2026 - 03/12/2026

Pipeline - Excavator - Excavator Procedures for Road Bore Approaches 02/23/2026 - 02/28/2026

Pipeline - Vacuworxs Pipelifter 02/23/2026 - 02/28/2026

Cooling Tower Operation & Maintenance 02/26/2026 - 02/27/2026

Electrical Systems 2 03/01/2026 - 03/05/2026

Pipeline - Bending - Darby Bending Operator Classes 03/02/2026 - 03/07/2026

Pipeline - Horizontal Directional Drilling Maintenance & Repair 03/02/2026 - 03/05/2026

Chief Engineer Course 03/02/2026 - 03/06/2026

Pipeline - Excavator - Mat Handling/Bridge Building Training 03/02/2026 - 03/07/2026

Crane Operations - Practical Testing for NCCCO Certification 03/02/2026 - 03/06/2026

Pipeline - Hydro-Excavation Truck Training 03/02/2026 - 03/07/2026

Crane Operations - Level 2 Luffing Crawler Crane Operations 03/02/2026 - 03/06/2026

GPS Machine Control 03/02/2026 - 03/06/2026

Pipeline - Vacuworxs Pipelifter 03/02/2026 - 03/07/2026

Excavation Operations 03/02/2026 - 03/06/2026

Advanced Controls & Building Automation Systems 03/06/2026 - 03/08/2026

Welding 03/09/2026 - 03/13/2026

40 Hour HAZWOPER 03/09/2026 - 03/13/2026

Pipeline - Bending - Darby Bending Operator Classes 03/09/2026 - 03/14/2026

Pipeline - Angle Dozer - Advanced Angle Dozer Training 03/09/2026 - 03/21/2026

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Pipeline - Pipe-lifter Stringing Class	03/09/2026 - 03/14/2026
Crane Operations - Level 1 Crane Operations for Beginners	03/09/2026 - 03/13/2026
Pipeline - Horizontal Directional Drilling/Mud Tech Advanced	03/09/2026 - 03/21/2026
Pipeline - Sideboom - Advanced Sideboom Training	03/09/2026 - 03/21/2026
Motorgrader Operations	03/09/2026 - 03/13/2026
Data Center Operations	03/09/2026 - 03/13/2026
Crane Operations - Intro to Tower Crane	03/09/2026 - 03/13/2026
Pipeline - Excavator - Advanced Excavator Training	03/09/2026 - 03/21/2026
Pipeline - Hydro-Excavation - Advanced Hydro-Excavation Truck Training	03/09/2026 - 03/14/2026
Pipeline - Excavator - Excavator Procedures for Existing Live Pipelines	03/09/2026 - 03/21/2026
Rooftop Unit Maintenance & HVAC Troubleshooting	03/10/2026 - 03/13/2026
Boiler System Efficiency	03/11/2026 - 03/13/2026
Electrical Troubleshooting & Variable Frequency Drive Operations	03/13/2026 - 03/16/2026
Generator Maintenance & Operation	03/15/2026 - 03/18/2026
Pipeline - Bending - Darby Bending Operator Classes	03/16/2026 - 03/21/2026
Pipeline - Excavator - Rough Terrain/Hill Procedures/Winching - KENTUCKY	03/16/2026 - 04/03/2026
Crane Operations - Practical Testing for NCCCO Certification	03/16/2026 - 03/20/2026
Pipeline - Sideboom - Rough Terrain/Hill Procedures/Winching - KENTUCKY	03/16/2026 - 04/03/2026
Pipeline - Deckhand Pipe Lifter	03/16/2026 - 03/21/2026
Motorgrader Operations	03/16/2026 - 03/20/2026

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GPS Modeling and Takeoff	03/16/2026 - 03/20/2026
Pipeline - Angle Dozer - Rough Terrain/Hill Procedures/Winching - KENTUCKY	03/16/2026 - 04/03/2026
Pipeline - Hydro-Excavation - Advanced Hydro-Excavation Truck Training	03/16/2026 - 03/21/2026
Solar Panel Installation Maintenance & Troubleshooting	03/17/2026 - 03/20/2026
Automatic Transfer Switch (ATS) for Generators	03/19/2026 - 03/21/2026
NATE Test Prep	03/20/2026 - 03/22/2026
Basic Controls & Building Automation Systems	03/21/2026 - 03/23/2026
Low Pressure Boiler Operations	03/21/2026 - 03/25/2026
Welding	03/23/2026 - 03/27/2026
Pump Maintenance & Operation	03/23/2026 - 03/26/2026
Pipeline - Bending - Darby Bending Operator Classes	03/23/2026 - 03/28/2026
Crane Operations - Assembly/Disassembly of Luffing Crawler Cranes	03/23/2026 - 04/01/2026
Pipeline - Angle Dozer - Advanced Angle Dozer Training	03/23/2026 - 04/03/2026
Pipeline - Deckhand Pipe Lifter	03/23/2026 - 03/28/2026
Pipeline - Excavator procedures for Waterway/Creek Crossings	03/23/2026 - 03/28/2026
Pipeline - Horizontal Directional Drilling/Mud Tech Advanced	03/23/2026 - 04/03/2026
Pipeline - Sideboom - Advanced Sideboom Training	03/23/2026 - 04/03/2026
Crane Operations - LMI Setup & Crane Operations	03/23/2026 - 04/02/2026
Crane Operations - All Terrain Crane Set-up & Operations - Level 1	03/23/2026 - 03/27/2026
GPS Machine Control	03/23/2026 - 03/27/2026

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Pipeline - Excavator - Advanced Excavator Training	03/23/2026 - 04/03/2026
Pipeline - Hydro-Excavation - Advanced Hydro-Excavation Truck Training	03/23/2026 - 03/28/2026
Certified Pool Operator	03/24/2026 - 03/26/2026
OSHA 502 Update for Construction	03/24/2026 - 03/26/2026
Pipeline - Deckhand Pipe Lifter	03/30/2026 - 04/03/2026
Pipeline - Excavator procedures for Waterway/Creek Crossings	03/30/2026 - 04/03/2026
Pipeline - Hydro-Excavation - Advanced Hydro-Excavation Truck Training	03/30/2026 - 04/03/2026
Excavation Operations	03/30/2026 - 04/03/2026
Crane Operations - Crane Standards Training and Load Chart Review for Written Exam	04/07/2026 - 04/10/2026
GPS Rover Training	04/07/2026 - 04/10/2026
Boiler Operations 1	04/09/2026 - 04/13/2026
Welding	04/13/2026 - 04/17/2026
Electrical Systems 1	04/13/2026 - 04/17/2026
Pipeline - Low Boy Driver Training - Class A License Required	04/13/2026 - 04/18/2026
Pipeline - Excavator - Intermediate Excavator	04/13/2026 - 05/02/2026
Pipeline - John Henry Rock Drilling - Kentucky	04/13/2026 - 04/18/2026
Pipeline - Sideboom - Intermediate Sideboom Hydraulic Controls	04/13/2026 - 05/02/2026
Pipeline - Hydro-Excavation Truck Training	04/13/2026 - 04/18/2026
Pipeline - Excavator class for Bellholes	04/13/2026 - 04/18/2026
Motorgrader Operations	04/13/2026 - 04/17/2026

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Pipeline - HDD - Intro to Horizontal Directional Drilling	04/13/2026 - 04/18/2026
GPS Machine Control	04/13/2026 - 04/17/2026
Crane Operations - All Terrain Crane Set-up and Operations - Level 2	04/13/2026 - 04/17/2026
Crane Operations – Tower Crane Standards Training & Load Chart Review / NCCCO Tower Crane Certification Test	04/13/2026 - 04/17/2026
Pipeline - Angle Dozer - Intermediate Angle Dozer	04/13/2026 - 05/02/2026
Facility Water Chemistry & Treatment	04/13/2026 - 04/15/2026
Instrumentation & Controls	04/13/2026 - 04/17/2026
Commercial Refrigeration Applications 1	04/14/2026 - 04/18/2026
Pump Maintenance & Operation	04/20/2026 - 04/23/2026
Pipeline - Low Boy Driver Training - Class A License Required	04/20/2026 - 04/25/2026
Pipeline - John Henry Rock Drilling - Kentucky	04/20/2026 - 04/25/2026
Pipeline - Horizontal Directional Drilling Maintenance & Repair	04/20/2026 - 04/25/2026
Pipeline - Hydro-Excavation Truck Training	04/20/2026 - 04/25/2026
Crane Operations - Level 1 Crane Operations for Beginners	04/20/2026 - 04/24/2026
Crane Operations - Intro To Luffing Crawler Crane Operations	04/20/2026 - 04/24/2026
Mechanics Training - Electronic Fundamentals	04/20/2026 - 04/24/2026
Data Center Operations	04/20/2026 - 04/24/2026
Crane Operations - Intro to Tower Crane	04/20/2026 - 04/24/2026
Pipeline - Excavator - "Pipe joints/Pipe sections" Handling Procedures for Excavator	04/20/2026 - 04/25/2026
Excavation Operations	04/20/2026 - 04/24/2026

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Blueprint Reading II for Stationary Engineers	04/20/2026 - 04/24/2026
HAZWOPER Train-the-Trainer	04/21/2026 - 04/28/2026
Chiller Efficiency	04/23/2026 - 04/25/2026
Basic Controls & Building Automation Systems	04/25/2026 - 04/27/2026
Welding	04/27/2026 - 05/01/2026
Pipeline - John Henry Rock Drilling - Kentucky	04/27/2026 - 05/02/2026
Pipeline - Horizontal Directional Drilling Profile Class	04/27/2026 - 05/02/2026
Crane Operations - Intro To Luffing Crawler Crane Operations	04/27/2026 - 05/01/2026
Bulldozer Operations	04/27/2026 - 05/01/2026
Member Assistance Program - It's Time to Get Uncomfortable: Bringing Awareness to 04/27/2026 - 04/29/2026 focusing on the Patterns of Abuse	
Pipeline - "Hands on Pipeline Oiler Training"	04/27/2026 - 05/02/2026
Pipeline - Excavator - Excavator Procedures for Existing Live Pipelines	04/27/2026 - 05/09/2026
Mechanics Training - Tier 4 Diesel Engine Air Induction and Emissions Control	04/27/2026 - 05/01/2026
Pump Maintenance & Operation	05/01/2026 - 05/04/2026
Basic Controls & Building Automation Systems	05/02/2026 - 05/04/2026
Automatic Transfer Switch (ATS) for Generators	05/02/2026 - 05/04/2026
Pipeline - Sideboom - Specific Task Sideboom Training	05/04/2026 - 05/09/2026
Pipeline - Excavator - Intro to Pipeline Excavator	05/04/2026 - 05/09/2026
Pipeline - Angle Dozer - Intro to Pipeline Angle Dozer	05/04/2026 - 05/09/2026
Pipeline - HDD - Intro to Horizontal Directional Drilling	05/04/2026 - 05/09/2026

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Pipeline - Sideboom - Intro to Pipeline Sideboom	05/04/2026 - 05/09/2026
Crane Operations - Intro to Tower Crane	05/04/2026 - 05/08/2026
Cooling Tower Operation & Maintenance	05/04/2026 - 05/05/2026
Generator Maintenance & Operation	05/05/2026 - 05/08/2026
Pump Maintenance & Operation	05/05/2026 - 05/08/2026
Pipeline - Horizontal Directional Drilling Maintenance & Repair	05/11/2026 - 05/16/2026
Pipeline - Sideboom - Specific Task Sideboom Training	05/11/2026 - 05/16/2026
Pipeline - Excavator - Specific Task Excavator Training	05/11/2026 - 05/16/2026
Pipeline - Angle Dozer - Specific Task Angle Dozer Training	05/11/2026 - 05/16/2026
Pipeline - Excavator - "Pipe joints/Pipe sections" Handling Procedures for Excavator	05/11/2026 - 05/16/2026
High Pressure Boiler Operations	05/12/2026 - 05/16/2026
Chief Engineer Course	05/12/2026 - 05/16/2026
OSHA 510 Safety & Health Standards for the Construction Industry	05/12/2026 - 05/15/2026
Boiler System Efficiency	05/15/2026 - 05/17/2026
OSHA 500 Trainer Course Construction Industry	05/16/2026 - 05/19/2026
Advanced Controls & Building Automation Systems	05/16/2026 - 05/18/2026
Electrical Troubleshooting & Variable Frequency Drive Operations	05/29/2026 - 06/01/2026
Indoor Air Quality	05/29/2026 - 05/31/2026
Electrical Systems 1	06/01/2026 - 06/05/2026
Solar Panel Installation Maintenance & Troubleshooting	06/05/2026 - 06/08/2026

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Advanced Controls & Building Automation Systems	06/06/2026 - 06/08/2026
OSHA 503 Update for General Industry Outreach Trainers	06/08/2026 - 06/10/2026
HVAC Systems 2	06/09/2026 - 06/13/2026
Certified Pool Operator	06/09/2026 - 06/11/2026
Electrical Troubleshooting & Variable Frequency Drive Operations	06/11/2026 - 06/14/2026
OSHA 502 Update for Construction	06/11/2026 - 06/13/2026
Pump Maintenance & Operation	06/15/2026 - 06/18/2026
Rooftop Unit Maintenance & HVAC Troubleshooting	06/15/2026 - 06/18/2026
Testing & Balancing for Air & Hydronic Systems	06/15/2026 - 06/19/2026
Electrical Systems 2	06/23/2026 - 06/27/2026
HVAC Systems 1	06/23/2026 - 06/27/2026
Chiller Efficiency	06/28/2026 - 06/30/2026

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Training Course Schedule

Welding

01/05/2026 - 01/09/2026 - SMAW Welding

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

SMAW Welding

Electrical Systems 1

01/05/2026 - 01/09/2026

Electricity is a fundamental part of most tasks that the stationary engineer performs. Whether one works with motors, chillers, boilers, air handlers, lighting, or controls, electricity plays a part of each.

This course equips the stationary engineer with knowledge of electrical principals, electrical safety, how to perform electrical calculations, and gives an understanding of both AC and DC electrical components. Students have the opportunity to also perform hands on activities to reinforce the coursework.

This course is a suggested pre-requisite for Electrical Systems 2 course.

Pipeline - Excavator - Intermediate Excavator

01/05/2026 - 01/24/2026

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.

Safety

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.



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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
- All the various applications of an excavator throughout the many different stages of construction
- How to dig a pipeline sloped ditch
- How to dig the point of intersections
- How to dig safe bell holes
- How to properly plug out
- How to dig road bore approaches and creek crossings
- How to dig for a box sag
- Understanding the pipeline terminology and vocabulary words
- Safety

Pipeline - Sideboom - Intermediate Sideboom Hydraulic Controls

01/05/2026 - 01/24/2026

SIDEBOOM – INTERMEDIATE TRAINING

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.



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Training Course Schedule

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
- Sideboom 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 carry a load using one sideboom or multiple machines
- How to correctly carry a joint of pipe with the aid of a swamper
- The multiple uses of a sideboom through various stages of pipeline construction
- Pipeline terminology and vocabulary
- Safety

Pipeline - Excavator - Rough Terrain/Hill Procedures/Winching - KENTUCKY

01/05/2026 - 01/24/2026

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.



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Training Course Schedule

- 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
All the various applications of an excavator throughout the many different stages of construction
How to dig a pipeline sloped ditch on a slope.
How to dig the point of intersections on a slope.
How to dig safe bell holes on a slope.
How to properly plug out on a slope.
How to dig road bore approaches and creek crossings in the hills.
The proper procedures to dig ditch in the hills.
How to dig layered rock.
How to be properly winched by a winch tractor.
How to properly dig utilizing a winch line.
How to properly walk with a winch tractor.
How to properly build water – breakers.
Understanding the pipeline terminology and vocabulary words.
Safety

Crane Operations - Practical Testing for NCCCO Certification

01/05/2026 - 01/09/2026

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)

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Training Course Schedule

- Tower Crane
- Overhead Crane

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

Pipeline - Hydro-Excavation Truck Training

01/05/2026 - 01/10/2026

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:

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Training Course Schedule

- 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

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 six 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



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Training Course Schedule

- Safety
- Terminology

Pipeline - Deckhand Pipe Lifter

01/05/2026 - 01/10/2026

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 5 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 class will prepare the operator for the pipe handling procedures used in the pipeline industry.

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 5 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 class will prepare the operator for the pipe handling procedures used in the pipeline industry. The subjects covered will be:

- Loading and unloading a stringing truck.
- Proper procedure for racking pipe in a pipe yard.
- Proper procedure for stringing pipe down the right of way.
- How to look for proper chocking of the pipe.
- How to properly carry a joint of pipe up hills and down hills.
- How to carry pipe underneath overhead power lines.
- Overall safety
- Maintenance of the pipelifter
- Pipeline terminology



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Training Course Schedule

Pipeline - Angle Dozer - Rough Terrain/Hill Procedures/Winching - KENTUCKY

01/05/2026 - 01/24/2026

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. Safety will be a big topic of discussion in this class as the winch operation is very dangerous work if done the improper way.

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. Safety will be a big topic of discussion in this class as the winch operation is very dangerous work if done the improper way. The following subjects will be covered:

- A pipeline spread - Explain in depth each individual crew
- All the various applications of the winch
- How to efficiently and safely trip the cable while winching
- How to winch with multiple machines involved
- Learn the safety hazards involved with the winch operations
- How to properly hook up to another machine
- How to properly winch a sideboom or hold an excavator on a hillside
- 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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Training Course Schedule

- Understanding the pipeline terminology and vocabulary words
- Understand the importance of communication on the jobsite
- Safety

GPS Machine Control

01/05/2026 - 01/09/2026

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.

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.

Pipeline - Angle Dozer - Intermediate Angle Dozer

01/05/2026 - 01/24/2026

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 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

Pipeline - HDD - Intermediate Horizontal Directional Drilling/Mud Tech Verm

01/05/2026 - 01/24/2026

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.

This class will start with the basic operation of the HDD machine first, as the class progresses, the operator will be challenged to operate the HDD in more complex scenarios all while incorporating the use of the Elgin Kemtron 600 Pro mud reclamation system.

This course will prepare you for the HDD operations in the pipeline industry and the utility industry.

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.

This class will start with the basic operation of the HDD machine first, as the class progresses, the operator will be challenged to operate the HDD in more complex scenarios all while incorporating the use of the Vermeer 250C mud reclamation system.

This course will prepare you for the HDD operations in the pipeline industry and the utility industry. The following subjects will be covered:

- How to drill various materials using different accessories
- Applications of the HDD machine in pipeline construction and in the utility industry.
- The different procedures of mixing chemicals for the mud tech position.
- How to use the F-5 Falcon locating instrument that tracks the drill stem.
- How to Log Bore while drilling.
- How to use the Kemtron 600X reclaimer system in conjunction with the drilling machine.
- How to use and understand different drilling profiles either by hand or the program itself.
- Explain how to understand clearance problems.
- How to use the Vermeer projects software system including all GPS components.
- How to send edit/send an LWD to a contractor successfully.
- Proper maintenance of an HDD machine.
- Terminology
- Safety

Pipeline - Excavator - "Pipe joints/Pipe sections" Handling Procedures for

01/05/2026 - 01/10/2026

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.

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 pipe joints and sections.

- carrying single joints and/or sections
- How to properly set pipe into the clamps
- How to properly skid pipe joints or sections
- How to properly carry pipe joints or sections underneath powerlines
- Work with multiple excavators handling pipe sections
- How to properly carry sections containing sags or sidebends
- How to properly help rig up a sideboom

Pipeline - Sideboom - Live Draw Works - Kentucky

01/05/2026 - 01/24/2026

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.

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.



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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 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
- Pipeline terminology and vocabulary
- Safety

Excavation Operations

01/05/2026 - 01/09/2026

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 competition of this course, the member will understand trench safety techniques and how to move dirt efficiently.

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 competition of this course, the member will understand trench safety techniques and how to move dirt efficiently.

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Training Course Schedule

Asphalt Paving Operations

01/06/2026 - 01/08/2026

An Introduction into the Asphalt Paving Process. This course will cover the safety aspects as well as the responsibilities of the Operating Engineer during the paving process.

3 Days

Instrumentation & Controls

01/06/2026 - 01/10/2026

Instrumentation and Controls is an introductory course covering basic skills and concepts used in the field. The curriculum will provide students with a solid foundation for various industrial applications and process operations in various stationary facilities. The course will cover instrumentation principles including pressure, flow, level and temperature as well as safety and tools of the trade.

Students will become familiar with control valves and controllers and learn various control schemes which include transmitter calibration and system troubleshooting.

Chiller Efficiency

01/08/2026 - 01/10/2026

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.

Data Center Operations

01/11/2026 - 01/15/2026

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.

Chief Engineer Course

01/12/2026 - 01/16/2026

This Seminar is designed for chief engineers or engineers training to make the transition to chief or lead engineer. This seminar will provide the student the necessary administrative and personnel skills to handle the day-to-day leadership challenges associated with this position.

The ten sections are:

- Recommended Skills levels
- Planning and Time Management
- Budget Preparation
- Computer Applications
- Record Keeping
- Benefits of an Internal Work Force
- Reports and Presentations
- Health and Safety
- Human Relations
- Energy Conservation.

The Chief Engineers class has been updated as a
Blended Learning Environment,



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Training Course Schedule

in which traditional face-to-face instruction is also supplemented with specific computer assisted Learning

. The purpose is to take advantage of the best features of both face-to-face and computer assisted learning in the same classroom setting. During class you will be given a set of credentials and guided how to log onto the platform. Once logged in, you will be instructed on how to use and navigate the system. Additionally, while performing some of the class exercises, you will be using various types of software for letter writing, email, budgets, presentations etc. With all that said, it would be advantageous if each member would bring their own laptop computer to class, being that some of these exercises will remain on the computer for the student's future reference. If you cannot bring your own laptop computer or you do not own a laptop computer, we can provide a computer for you to use during the class.

Pipeline - Hydro-Excavation Truck Training

01/12/2026 - 01/17/2026

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



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Training Course Schedule

- Learn different trenching techniques.
- Learn the different nozzle selection
- Environmental concerns
- Maintenance
- Safety
- Terminology

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 six 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

Pipeline - Deckhand Pipe Lifter

01/12/2026 - 01/17/2026

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 5 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 class will prepare the operator for the pipe handling procedures used in the pipeline industry.

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 5 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 class will prepare the operator for the pipe handling procedures used in the pipeline industry. The subjects covered will be:

- Loading and unloading a stringing truck.
- Proper procedure for racking pipe in a pipe yard.
- Proper procedure for stringing pipe down the right of way.
- How to look for proper chocking of the pipe.
- How to properly carry a joint of pipe up hills and down hills.
- How to carry pipe underneath overhead power lines.
- Overall safety
- Maintenance of the pipelifter
- Pipeline terminology

Crane Operations - Level 1 Crane Operations for Beginners

01/12/2026 - 01/16/2026

Crane Operations for Beginners

(Level 1) - In this class students will be taught the requirements for crane inspection, the basics of crane set up including LMI's and LML's. This portion of the class has a hands-on approach. The largest portion of the class will be actual seat time instruction in the "How To" operate a crane safely and build on basic skills necessary to lift loads.



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Training Course Schedule

Crane Operations for Beginners

(Level 1) - In this class students will be taught the requirements for crane inspection, the basics of crane set up including LMI's and LML's. This portion of the class has a hands-on approach. The largest portion of the class will be actual seat time instruction in the "How To" operate a crane safely and build on basic skills necessary to lift loads.

Prerequisites:

Prerequisite for Level 1 - Member must have taken an introductory course at their home local and be familiar with crane terminology and nomenclature.

Low Pressure Boiler Operations

01/12/2026 - 01/16/2026

Low Pressure Boiler Operations course will help to assist in preparing the Stationary Engineer for the proper operation of Low-Pressure boilers and will also help with preparing for the facility operating engineer licensing. This course provides a comprehensive overview of the latest information on the safe and efficient operation of low-pressure steam and hot water boilers, cooling systems, and related equipment. The course is divided into sections to aid comprehension of key concepts:

- Boiler Operation Principles
- Steam Boiler Fittings
- Steam Boiler Feedwater Systems
- Steam Systems
- Fuel Systems
- Draft Systems
- Boiler Water Treatment
- Boiler Operation Procedures
- Hot Water Boilers and Fittings
- Hot Water Boiler Accessories and Piping Systems
- Cooling Systems



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Training Course Schedule

- Boiler Operation Safety
- Boiler Operator Licensing

Pipeline - Excavator - Excavation Class for Compressor Station Work

01/12/2026 - 01/24/2026

TBD

GPS Modeling and Takeoff

01/12/2026 - 01/16/2026

GPS Modeling and Takeoff -

In Modeling and Takeoff, members will learn the basics of creating a design Model for use in machines and rovers, as well as how to do a simple office takeoff for Bidding purposes. Members will be lead through the process of building at least one simple site project and a simple road project and will export them into all three GPS systems used at ITEC; Leica, Topcon, Trimble. Members will also create a simple site project Takeoff for Bidding purposes.

CAD software used in this class will be primarily Trimble Business Center. Trimble Business Center is a robust software capable of creating and exporting designs to any GPS system. Magnet office by Topcon is also on site and available to members.

GPS Modeling and Takeoff -

In Modeling and Takeoff, members will learn the basics of creating a design Model for use in machines and rovers, as well as how to do a simple office takeoff for Bidding purposes. Members will be lead through the process of building at least one simple site project and a simple road project and will export them into all three GPS systems used at ITEC; Leica, Topcon, Trimble. Members will also create a simple site project Takeoff for Bidding purposes.

CAD software used in this class will be primarily Trimble Business Center. Trimble Business Center is a robust software capable of creating and exporting designs to any GPS system. Magnet office by Topcon is also on site and available to members.



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Training Course Schedule

Crane Operations - Intro to Tower Crane

01/12/2026 - 01/16/2026

Introduction to Tower Crane Operations

(Level 1) - This course is for students with previous crane experience. The course will introduce students to three types of tower cranes: Hammerhead tower cranes, luffing boom tower cranes and self-erecting tower cranes. This course will cover cab controls and operating procedures. A major portion of the class will be hands on exercises teaching load control and operational dynamics.

- Prerequisites for Level 1 - Must have previous crane operating experience.

Introduction to Tower Crane Operations

(Level 1) - This course is for students with previous crane experience. The course will introduce students to three types of tower cranes: Hammerhead tower cranes, luffing boom tower cranes and self-erecting tower cranes. This course will cover cab controls and operating procedures. A major portion of the class will be hands on exercises teaching load control and operational dynamics.

Prerequisites for Level 1

- Must have previous crane operating experience

Asphalt Paving Operations

01/13/2026 - 01/15/2026

An Introduction into the Asphalt Paving Process. This course will cover the safety aspects as well as the responsibilities of the Operating Engineer during the paving process.

3 Days

Basic Controls & Building Automation Systems

01/16/2026 - 01/18/2026

This course has been developed for individuals who want to take the mystery out of the understanding of how DDC controls and Building Automation Systems operate, and also the insight of the various related software packages that drive these systems and how they manipulate these systems.

This seminar has also been designed for people not familiar DDC controls and Building Automation Systems. There will be lectures on basic control strategies, the basics of DDC hardware, and also the basic understanding of building optimization for curtailing the use of energy.

For the experienced people there will be discussions on advanced control technologies dealing with the architecture of Building Automation Systems, discussing how they are installed, wired, and then programmed. Also, there will be main topic lectures on DDC Main Controllers, Stand alone controllers, and their communication protocols.

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

- Understand the basic DDC and Analog control technology for the HVAC field
- Describe the different types of control actions and when to use them
- Identify Building Automation System main components and where they are used
- Define and select the proper Automation System for different locations
- Ascertain how Building Automation Systems Operate to maintain human comfort
- Define the different types of Analog and Binary inputs and outputs
- Understand the system wiring through various schematic diagrams of installed systems
- Comprehend the different type of operator interfaces and how they communicate
- Define criteria for control strategies such as with closed loop control
- Describe control strategies and how buildings are optimized for peak efficiency
- Understand how a PID loop is written and how to tweak it in for the maximum performance
- Define the different types of programming method

Welding

01/19/2026 - 01/23/2026 - SMAW Welding

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

SMAW Welding

40 Hour HAZWOPER

01/19/2026 - 01/23/2026

Required for workers that perform activities that expose or potentially expose them to hazardous substances. This course is specifically designed for workers who voluntary clean up operations, emergency response operations, and of hazardous substances or uncontrolled hazardous waste sites. Topics include protection against hazardous chemicals, elimination of hazardous chemicals, safety of workers and the environment and OSHA regulations. This course covers topics included in 29 CFR 1910.120.

Pipeline - Hydro-Excavation Truck Training

01/19/2026 - 01/24/2026

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.



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Training Course Schedule

- Learn the different nozzle selection
- Environmental concerns
- Maintenance
- Safety
- Terminology

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 six 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

Pipeline - Deckhand Pipe Lifter

01/19/2026 - 01/24/2026

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 5 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 class will prepare the operator for the pipe handling procedures used in the pipeline industry.

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 5 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 class will prepare the operator for the pipe handling procedures used in the pipeline industry. The subjects covered will be:

- Loading and unloading a stringing truck.
- Proper procedure for racking pipe in a pipe yard.
- Proper procedure for stringing pipe down the right of way.
- How to look for proper chocking of the pipe.
- How to properly carry a joint of pipe up hills and down hills.
- How to carry pipe underneath overhead power lines.
- Overall safety
- Maintenance of the pipelifter
- Pipeline terminology

Crane Operations - Crane Standards Training and Load Chart Review for Written Exam - Mobile Cranes

01/19/2026 - 01/22/2026

Crane Operations – Crane Standards Training and Load Chart Review for Written Exam – Mobile Cranes -

This course will include standards from OSHA 1926.1400 and ASME B30.6, load chart and range diagram review.



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Training Course Schedule

Crane Operations – Crane Standards Training and Load Chart Review for Written Exam – Mobile Cranes -

This course will include standards from OSHA 1926.1400 and ASME B30.6, load chart and range diagram review.

Motorgrader Operations

01/19/2026 - 01/23/2026

This course will focus on upgrading the skills for the Operating Engineer on Motorgrader operations.

Motorgrader Operations

- This course will focus on upgrading the skills for the Operating Engineer on Motorgrader operations.

Pipeline - Hydro-Static Testing of Pipelines

01/19/2026 - 01/24/2026

This is a one week class. The class will run 6 consecutive days, Monday - Saturday, 10 hours a day.

This a brand new class offered through the National Pipeline Training Fund. The testing of pipelines is considered one of the most critical parts of the construction process. The process is also considered one of the most dangerous parts of the construction process and it is essential that IUOE operators train for the job. In this class, an operator will actually be testing a mock pipeline, just like on a jobsite.

This is a one week class. The class will run 6 consecutive days, Monday - Saturday, 10 hours a day.

This a brand new class offered through the National Pipeline Training Fund. The testing of pipelines is considered one of the most critical parts of the construction process. The process is also considered one of the most dangerous parts of the construction process and it is essential that IUOE operators train for the job. In this class, an operator will actually be testing a mock pipeline, just like on a jobsite. The following topics will be covered:

- Roles of the operating engineer while working in the testing crew



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Training Course Schedule

- Discuss the hazards of the testing crew
- Explain how to clean and clear the pipeline
- Explain the temperatures
- Explain the pressure recorders and how to utilize them (set-up and put charts in them)
- The operator will actually fill a pipeline with water, test the section, and then dewater the pipeline.
- Explain/utilize brass deadweights
- Explain /utilize digital deadweights
- The operator will learn the process of hanging a manifold
- The process of loading a pig
- Proper operation of an air compressors and water pumps
- Explain the head pressure and how dangerous the air/water mixture is
- How to move a frac tank
- The operator will learn about the different style of pigs and what the uses are
- Testing vocabulary
- Testing safety

Prerequisites:

prior pipeline experience, a three week intermediate class is recommended in order to understand pipeline terms.

Crane Operations – Tower Crane Standards Training & Load Chart Review

01/19/2026 - 01/23/2026

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.



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Training Course Schedule

Practical Testing available for Tower Crane only.

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

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.

Testing & Balancing for Air & Hydronic Systems

01/19/2026 - 01/23/2026

HVAC system efficiency and human comfort are all affected by proper system airflow requirements. Testing, Adjusting, and Balancing (TAB) of an HVAC system is a useful process of measuring and regulating the amount of airflow at each area of the building. Balancing is essential for any HVAC system to perform as per building design and expectations. It is an overall health check for your HVAC system and helps to ensure that you are providing the building occupants with a comfortably conditioned space at the lowest energy cost possible.

A well-balanced system will ensure the right amounts of air are delivered to the right places, at the right temperature, and humidity levels with the least amount of distribution losses. It is important that the air distribution system and duct designs are designed and installed in such a way that the balancing and the measuring of airflow are possible and can be performed accurately.

This course will discuss why balancing an HVAC system is so important, why systems become unbalanced, what the balancing process entails and more. This course will help the student understand the TAB process and interpret the ventilation/balance report information and the process for conducting total system balancing, from start to finish, for basic air systems, hydronic systems, and domestic hot water systems found in commercial buildings. Course topics include document review & preparation for TAB (of air & water systems), site observations, testing for constant & variable air & water system flow rates.

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Training Course Schedule

Asphalt Milling Machine Operations

01/20/2026 - 01/22/2026

In this course students will learn the operations of a Wirtgen Asphalt Milling machine from Factory trainers. This is a 3-day course that will include classroom and hands-on operations.

Boiler Operations 1

01/21/2026 - 01/25/2026

The Boiler Operation 1 course is an introductory course that will provide stationary engineers and maintenance personnel a foundational understanding of boilers, steam and heating. Students will learn how boiler systems work, gain an understanding of boiler safety and learn about various boiler fittings and accessories. Upon completing the class, students will understand basic heat and steam principles, and know how to safely perform an inspection of an operating boiler.

HVAC Systems 1

01/21/2026 - 01/25/2026

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.



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Training Course Schedule

- Ability to solder and braze connections for piping systems.

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

Advanced Controls & Building Automation Systems

01/24/2026 - 01/26/2026

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



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Training Course Schedule

- Wire Building Automation System main components
- Understand the various types of BAS communication protocols
- 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 - Bending - Darby Bending Operator Classes

01/26/2026 - 01/31/2026

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.

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.

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.



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Training Course Schedule

- 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.

Pipeline - Excavator - Intermediate Excavator

01/26/2026 - 02/13/2026

This class is a three week course. The course schedule is 10 hours a day, 6 days a week, MondaySaturday. 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.

Safety

This class is a three week course. The course schedule is 10 hours a day, 6 days a week, MondaySaturday. 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



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Training Course Schedule

- All the various applications of an excavator throughout the many different stages of construction
- How to dig a pipeline sloped ditch
- How to dig the point of intersections
- How to dig safe bell holes
- How to properly plug out
- How to dig road bore approaches and creek crossings
- How to dig for a box sag
- Understanding the pipeline terminology and vocabulary words
- Safety

Pipeline - Excavator - Mat Handling/Bridge Building Training

01/26/2026 - 01/31/2026

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.

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

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Training Course Schedule

Pipeline - Sideboom - Intermediate Sideboom Hydraulic Controls

01/26/2026 - 02/13/2026

SIDEBOOM – INTERMEDIATE TRAINING

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 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
- Sideboom 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 carry a load using one sideboom or multiple machines
- How to correctly carry a joint of pipe with the aid of a swamper



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Training Course Schedule

- The multiple uses of a sideboom through various stages of pipeline construction
- Pipeline terminology and vocabulary
- Safety

Pipeline - Excavator - Rough Terrain/Hill Procedures/Winching - KENTUCKY

01/26/2026 - 02/13/2026

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.

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
- All the various applications of an excavator throughout the many different stages of construction
- How to dig a pipeline sloped ditch on a slope.
- How to dig the point of intersections on a slope.
- How to dig safe bell holes on a slope.
- How to properly plug out on a slope.



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Training Course Schedule

- How to dig road bore approaches and creek crossings in the hills.
- The proper procedures to dig ditch in the hills.
- How to dig layered rock.
- How to be properly winched by a winch tractor.
- How to properly dig utilizing a winch line.
- How to properly walk with a winch tractor.
- How to properly build water – breakers.
- Understanding the pipeline terminology and vocabulary words.
- Safety

Pipeline - Hydro-Excavation Truck Training

01/26/2026 - 01/31/2026

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

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Training Course Schedule

- Learn different trenching techniques.
- Learn the different nozzle selection
- Environmental concerns
- Maintenance
- Safety
- Terminology

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 six 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

Pipeline - Sideboom - Rough Terrain/Hill Procedures/Winching - KENTUCKY

01/26/2026 - 02/13/2026

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. Sidebooms utilized in this course are Hydraulic and Live tractors.

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.

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. Sidebooms utilized in this course are Hydraulic and Live tractors.

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.
- Sideboom controls.
- How to be winched by a single tractor.
- The proper procedures to be winched over different terrains and conditions.
- The proper procedures of multiple tractors being winched at the same time.
- How to properly carry a section of pipe down a slope.
- How to “stove-pipe” and lower-in pipe on a slope.
- How to deal with endo/pipe movement.
- How to properly cross-clutch steer on a hillside.
- Pipeline terminology and vocabulary

Pipeline - Deckhand Pipe Lifter

01/26/2026 - 01/31/2026

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 5 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 class will prepare the operator for the pipe handling procedures used in the pipeline industry.

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 5 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 class will prepare the operator for the pipe handling procedures used in the pipeline industry. The subjects covered will be:

- Loading and unloading a stringing truck.
- Proper procedure for racking pipe in a pipe yard.
- Proper procedure for stringing pipe down the right of way.
- How to look for proper chocking of the pipe.
- How to properly carry a joint of pipe up hills and down hills.
- How to carry pipe underneath overhead power lines.
- Overall safety
- Maintenance of the pipelifter
- Pipeline terminology

Pipeline - HDD - Intermediate Horizontal Directional Drilling/Mud Tech Ditch

01/26/2026 - 02/13/2026

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.

This class will start with the basic operation of the HDD machine first, as the class progresses, the operator will be challenged to operate the HDD in more complex scenarios all while incorporating the use of the Elgin Kemtron 600 Pro mud reclamation system.



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Training Course Schedule

This course will prepare you for the HDD operations in the pipeline industry and the utility industry.

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.

This class will start with the basic operation of the HDD machine first, as the class progresses, the operator will be challenged to operate the HDD in more complex scenarios all while incorporating the use of the Vermeer 250C mud reclamation system.

This course will prepare you for the HDD operations in the pipeline industry and the utility industry. The following subjects will be covered:

- How to drill various materials using different accessories
- Applications of the HDD machine in pipeline construction and in the utility industry.
- The different procedures of mixing chemicals for the mud tech position.
- How to use the F-5 Falcon locating instrument that tracks the drill stem.
- How to Log Bore while drilling.
- How to use the Kemtron 600X reclaimer system in conjunction with the drilling machine.
- How to use and understand different drilling profiles either by hand or the program itself.
- Explain how to understand clearance problems.
- How to use the Vermeer projects software system including all GPS components.
- How to send edit/send an LWD to a contractor successfully.
- Proper maintenance of an HDD machine.
- Terminology
- Safety

Pipeline - Angle Dozer - Rough Terrain/Hill Procedures/Winching - KENTUC

01/26/2026 - 02/13/2026

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. Safety will be a big topic of discussion in this class as the winch operation is very dangerous work if done the improper way.

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. Safety will be a big topic of discussion in this class as the winch operation is very dangerous work if done the improper way. The following subjects will be covered:

- A pipeline spread - Explain in depth each individual crew
- All the various applications of the winch
- How to efficiently and safely trip the cable while winching
- How to winch with multiple machines involved
- Learn the safety hazards involved with the winch operations
- How to properly hook up to another machine
- How to properly winch a sideboom or hold an excavator on a hillside
- 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
- Understand the importance of communication on the jobsite
- Safety

Pipeline - Hydro-Static Testing of Pipelines

01/26/2026 - 01/31/2026

This is a one week class. The class will run 6 consecutive days, Monday - Saturday, 10 hours a day.

This a brand new class offered through the National Pipeline Training Fund. The testing of pipelines is considered one of the most critical parts of the construction process. The process is also considered one of the most dangerous parts of the construction process and it is essential that IUOE operators train for the job. In this class, an operator will actually be testing a mock pipeline, just like on a jobsite.

This is a one week class. The class will run 6 consecutive days, Monday - Saturday, 10 hours a day.

This a brand new class offered through the National Pipeline Training Fund. The testing of pipelines is considered one of the most critical parts of the construction process. The process is also considered one of the most dangerous parts of the construction process and it is essential that IUOE operators train for the job. In this class, an operator will actually be testing a mock pipeline, just like on a jobsite. The following topics will be covered:

- Roles of the operating engineer while working in the testing crew
- Discuss the hazards of the testing crew
- Explain how to clean and clear the pipeline
- Explain the temperatures
- Explain the pressure recorders and how to utilize them (set-up and put charts in them)
- The operator will actually fill a pipeline with water, test the section, and then dewater the pipeline.
- Explain/utilize brass deadweights
- Explain /utilize digital deadweights
- The operator will learn the process of hanging a manifold
- The process of loading a pig
- Proper operation of an air compressors and water pumps
- Explain the head pressure and how dangerous the air/water mixture is
- How to move a frac tank
- The operator will learn about the different style of pigs and what the uses are
- Testing vocabulary
- Testing safety

Prerequisites:

prior pipeline experience, a three week intermediate class is recommended in order to understand pipeline terms.



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Training Course Schedule

Pipeline - Angle Dozer - Intermediate Angle Dozer

01/26/2026 - 02/13/2026

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 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

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Training Course Schedule

- Safety

Welding

02/02/2026 - 02/06/2026 - SMAW Welding

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

SMAW Welding

Pipeline - Bending - Darby Bending Operator Classes

02/02/2026 - 02/07/2026

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.

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.

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:



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Training Course Schedule

- 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.

Crane Operations - Practical Testing for NCCCO Certification

02/02/2026 - 02/06/2026

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

Practical Testing

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Training Course Schedule

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

Pipeline - Hydro-Excavation Truck Training

02/02/2026 - 02/07/2026

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.

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Training Course Schedule

- 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

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 six 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



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Training Course Schedule

Crane Operations - Intro To Luffing Crawler Crane Operations

02/02/2026 - 02/06/2026

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.

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.

Prerequisites -

Member must be certified/licensed for mobile hydraulic and/or lattice cranes. Certifications/Licenses include OECP, NCCCO, Red Seal, Connecticut or New York State license.

Pipeline - Hydro-Static Testing of Pipelines

02/02/2026 - 02/07/2026

This is a one week class. The class will run 6 consecutive days, Monday - Saturday, 10 hours a day.

This a brand new class offered through the National Pipeline Training Fund. The testing of pipelines is considered one of the most critical parts of the construction process. The process is also considered one of the most dangerous parts of the construction process and it is essential that IUOE operators train for the job. In this class, an operator will actually be testing a mock pipeline, just like on a jobsite.

This is a one week class. The class will run 6 consecutive days, Monday - Saturday, 10 hours a day.

This a brand new class offered through the National Pipeline Training Fund. The testing of pipelines is considered one of the most critical parts of the construction process. The process is also considered one of the most dangerous parts of the construction process and it is essential that IUOE operators train for the job. In this class, an operator will actually be testing a mock pipeline, just like on a jobsite. The following topics will be covered:

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Training Course Schedule

- Roles of the operating engineer while working in the testing crew
- Discuss the hazards of the testing crew
- Explain how to clean and clear the pipeline
- Explain the temperatures
- Explain the pressure recorders and how to utilize them (set-up and put charts in them)
- The operator will actually fill a pipeline with water, test the section, and then dewater the pipeline.
- Explain/utilize brass deadweights
- Explain /utilize digital deadweights
- The operator will learn the process of hanging a manifold
- The process of loading a pig
- Proper operation of an air compressors and water pumps
- Explain the head pressure and how dangerous the air/water mixture is
- How to move a frac tank
- The operator will learn about the different style of pigs and what the uses are
- Testing vocabulary
- Testing safety

Prerequisites:

prior pipeline experience, a three week intermediate class is recommended in order to understand pipeline terms.

Pipeline - Excavator - Excavator Procedures for Existing Live Pipelines

02/02/2026 - 02/13/2026

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.

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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.

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 six 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:

J Journeyman operator skills required

Pipeline - Vacuworxs Pipelifter

02/02/2026 - 02/07/2026

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 5 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.



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Training Course Schedule

This class will prepare the operator for the pipe handling procedures used in the pipeline industry.

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 5 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 class will prepare the operator for the pipe handling procedures used in the pipeline industry. The subjects covered will be:

- Loading and unloading a stringing truck
- Proper procedure for racking pipe in a pipe yard
- Proper procedure for stringing pipe down the right of way
- How to look for proper chocking of the pipe
- How to properly carry a joint of pipe up hills and down hills
- How to carry pipe underneath overhead power lines
- Overall safety
- Maintenance
- Pipeline terminology

Programmable Logic Controller (PLC)

02/02/2026 - 02/04/2026

This course is intended to instruct stationary engineers on the basics of programmable logic controllers. It covers basic programming of some of the most common equipment in the industry, basics needed for configuring and troubleshooting devices on a network, and industry best practices for installing and maintaining these systems. It will provide students with the tools needed to install and program PLCs. It will also orient students on methods of networking and troubleshooting SCADA systems and familiarize them with terminology and methods so that they can adapt these lessons to their facility's equipment.



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Training Course Schedule

Excavation Operations

02/02/2026 - 02/06/2026

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 competition of this course, the member will understand trench safety techniques and how to move dirt efficiently.

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 competition of this course, the member will understand trench safety techniques and how to move dirt efficiently.

Asphalt Milling Machine Operations

02/03/2026 - 02/05/2026

In this course students will learn the operations of a Wirtgen Asphalt Milling machine from Factory trainers. This is a 3-day course that will include classroom and hands-on operations.

Asphalt Paving Operations

02/03/2026 - 02/05/2026

An Introduction into the Asphalt Paving Process. This course will cover the safety aspects as well as the responsibilities of the Operating Engineer during the paving process.

3 Days

Electrical Troubleshooting & Variable Frequency Drive Operations

02/05/2026 - 02/08/2026

This four-day seminar is designed to provide the knowledge and skills required when selecting, installing, testing and troubleshooting electrical systems the motors they control, and the control circuits connected to them. In this hands-on seminar, students will build, program and test VFD, motors and control circuits.

Test instruments covered and used include digital multi-meters (DMMs), current clamps and meter attachments. Topics, circuits, and equipment covered include:

- Test instrument terminology, symbols and measurement functions for each type of instrument used is covered to learn what test instruments should and should not be used circuits.
- Learn the safe and correct way to take electrical measurements and what the measurements actually mean.
- Learn where and how to use special meter functions like MIN/MAX, RELATIVE, LoZ, Peak, kVA, kW, and PF measurement functions.
- Learn how to test for grounding problems.
- Understanding VFD and motor nameplate data.
- Learn how to test and wire any three-phase motor without using the motors wiring diagram and what the expected readings should be before power is applied and how to troubleshoot the motor after power is applied.
- Circuits built include using, magnetic motor starters, mechanical and solid-state switches, such as, selector switches, proximity switches, photoelectric switches, analog inputs (photovoltaic and potentiometers), and other commonly used electrical devices.
- Connect, program, and test VFDs (variable frequency drives).
- Take power measurements (P.F., kVA, kW, and harmonic) to understand power quality problems.

Energy Conservation

02/07/2026 - 02/10/2026

Prerequisite: Students should have strong working knowledge of Electrical systems, HVAC systems and Building Automation systems.

Members of the International Union of Operating Engineers manage a large amount of the energy that is consumed in North America. Our involvement in this energy management endeavor is critical to its success. This course will explain the

various aspects of energy management, metering, regulations, standards, energy auditing, and energy management solutions.

Please see course commercial: iuoentf.training/videos/energy-conservation.mp4

This is a lecture-based course:

Course Overview:

- Introduction to Energy Conservation
- The Energy Star Program and Energy Benchmarking
- The US Green Building Council and LEED
- Effective Energy Management
- Metering and Monitoring
- Energy Unit Conversions
- Energy Audits and Assessments
- Energy Conservation Opportunities
- Energy Bills
- Calculating Energy Savings
- Energy Cost Calculations Workshop
- The Building Envelope
- Boilers and Combustion Devices
- Steam and Condensate Systems
- HVAC Systems
- Electric Energy Management
- Lighting
- Building Automation Systems
- Waste Heat Recovery
- Lesson 19: Advanced Technologies



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Training Course Schedule

- Building Commissioning
- Project Management

Pipeline - Bending - Darby Bending Operator Classes

02/09/2026 - 02/14/2026

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.

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.

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



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Training Course Schedule

- 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.

HVAC Systems 2

02/09/2026 - 02/13/2026

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

Electrical Systems 2

02/09/2026 - 02/13/2026

This class builds off of Electrical Systems 1 so students should have taken that before this class or have comparable experience and understanding.

In this class, students will be provided a greater understanding of electrical principles and theory including series and parallel circuits and more advanced electric formulas. Students will gain the ability to read electrical prints, replace breakers, and perform troubleshooting using Fluke meters.

This course includes substantial hands-on activities.

Pipeline - Hydro-Excavation Truck Training

02/09/2026 - 02/13/2026

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

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 six students.



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Training Course Schedule

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- Learn different trenching techniques.
- Learn the different nozzle selection
- Environmental concerns
- Maintenance
- Safety
- Terminology

Rigger Level 1 & Signalperson Practical Exams for NCCCO Certification

02/09/2026 - 02/13/2026

Rigger Level 1 & Signalperson Practical Exams for NCCCO Certification

Rigger Level 1 & Signalperson Practical Exams for NCCCO Certification

Crane Operations - Intro to Tower Crane

02/09/2026 - 02/13/2026

Introduction to Tower Crane Operations

(Level 1) - This course is for students with previous crane experience. The course will introduce students to three types of tower cranes: Hammerhead tower cranes, luffing boom tower cranes and self-erecting tower cranes. This course will cover cab controls and operating procedures. A major portion of the class will be hands on exercises teaching load control and operational dynamics.

- Prerequisites for Level 1 - Must have previous crane operating experience.

Introduction to Tower Crane Operations

(Level 1) - This course is for students with previous crane experience. The course will introduce students to three types of tower cranes: Hammerhead tower cranes, luffing boom tower cranes and self-erecting tower cranes. This course will cover cab controls and operating procedures. A major portion of the class will be hands on exercises teaching load control and operational dynamics.

Prerequisites for Level 1

- Must have previous crane operating experience

Pipeline - Hydro-Static Testing of Pipelines

02/09/2026 - 02/14/2026

This is a one week class. The class will run 6 consecutive days, Monday - Saturday, 10 hours a day.

This a brand new class offered through the National Pipeline Training Fund. The testing of pipelines is considered one of the most critical parts of the construction process. The process is also considered one of the most dangerous parts of the construction process and it is essential that IUOE operators train for the job. In this class, an operator will actually be testing a mock pipeline, just like on a jobsite.

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Training Course Schedule

- Roles of the operating engineer while working in the testing crew
- Discuss the hazards of the testing crew
- Explain how to clean and clear the pipeline
- Explain the temperatures
- Explain the pressure recorders and how to utilize them (set-up and put charts in them)
- The operator will actually fill a pipeline with water, test the section, and then dewater the pipeline.
- Explain/utilize brass deadweights
- Explain /utilize digital deadweights
- The operator will learn the process of hanging a manifold
- The process of loading a pig
- Proper operation of an air compressors and water pumps
- Explain the head pressure and how dangerous the air/water mixture is
- How to move a frac tank
- The operator will learn about the different style of pigs and what the uses are
- Testing vocabulary
- Testing safety

Prerequisites:

prior pipeline experience, a three week intermediate class is recommended in order to understand pipeline terms.

Pipeline - Vacuworxs Pipelifter

02/09/2026 - 02/14/2026

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 5 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 class will prepare the operator for the pipe handling procedures used in the pipeline industry.



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Training Course Schedule

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 5 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 class will prepare the operator for the pipe handling procedures used in the pipeline industry. The subjects covered will be:

- Loading and unloading a stringing truck
- Proper procedure for racking pipe in a pipe yard
- Proper procedure for stringing pipe down the right of way
- How to look for proper chocking of the pipe
- How to properly carry a joint of pipe up hills and down hills
- How to carry pipe underneath overhead power lines
- Overall safety
- Maintenance
- Pipeline terminology

Asphalt Milling Machine Operations

02/10/2026 - 02/12/2026

In this course students will learn the operations of a Wirtgen Asphalt Milling machine from Factory trainers. This is a 3-day course that will include classroom and hands-on operations.

Solar Panel Installation Maintenance & Troubleshooting

02/11/2026 - 02/14/2026

This course work will include information on site location, system sizing, mounting options, system components, configurations, mechanical, electrical integration and code requirements. Topics also include Solar Radiation, System Components, Cells, Modules, and Arrays, Batteries, Inverters, System Sizing, Mechanical Integration, Electrical Integration, Utility Interconnection, Permitting and Inspection, Commissioning, Maintenance, and Troubleshooting. Students will receive hands on training in installation and configuration of actual solar voltaic systems.

Welding

02/16/2026 - 02/20/2026 - MIG Welding

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

MIG Welding

Pump Maintenance & Operation

02/16/2026 - 02/19/2026

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.

Pipeline - Bending - Darby Bending Operator Classes

02/16/2026 - 02/21/2026

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.

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.

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.

Motorgrader Operations

02/16/2026 - 02/20/2026

This course will focus on upgrading the skills for the Operating Engineer on Motorgrader operations.

Motorgrader Operations

- This course will focus on upgrading the skills for the Operating Engineer on Motorgrader operations.

Crane Operations - LMI Setup & Crane Operations

02/16/2026 - 02/20/2026

LMI Set-up & Crane Operations (Level 1)

- 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, outrigger and jib set-up for a variety of cranes.

Prerequisites for Level 1

– Member must have completed ITEC Level 1 Crane Operations course or be certified/licensed for hydraulic and/or lattice boom cranes. Certifications/licenses include NCCCO, OECP, Red Seal, Connecticut or New York State license.

LMI Set-up & Crane Operations (Level 1)

- 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, outrigger and jib set-up for a variety of cranes.

Prerequisites for Level 1

– Member must have completed ITEC Level 1 Crane Operations course or be certified/licensed for hydraulic and/or lattice boom cranes. Certifications/licenses include NCCCO, OECP, Red Seal, Connecticut or New York State license.

Pipeline - Hydro-Static Testing of Pipelines

02/16/2026 - 02/21/2026

This is a one week class. The class will run 6 consecutive days, Monday - Saturday, 10 hours a day.

This a brand new class offered through the National Pipeline Training Fund. The testing of pipelines is considered one of the most critical parts of the construction process. The process is also considered one of the most dangerous parts of the construction process and it is essential that IUOE operators train for the job. In this class, an operator will actually be testing a mock pipeline, just like on a jobsite.



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Training Course Schedule

This is a one week class. The class will run 6 consecutive days, Monday - Saturday, 10 hours a day.

This is a brand new class offered through the National Pipeline Training Fund. The testing of pipelines is considered one of the most critical parts of the construction process. The process is also considered one of the most dangerous parts of the construction process and it is essential that IUOE operators train for the job. In this class, an operator will actually be testing a mock pipeline, just like on a jobsite. The following topics will be covered:

- Roles of the operating engineer while working in the testing crew
- Discuss the hazards of the testing crew
- Explain how to clean and clear the pipeline
- Explain the temperatures
- Explain the pressure recorders and how to utilize them (set-up and put charts in them)
- The operator will actually fill a pipeline with water, test the section, and then dewater the pipeline.
- Explain/utilize brass deadweights
- Explain /utilize digital deadweights
- The operator will learn the process of hanging a manifold
- The process of loading a pig
- Proper operation of an air compressors and water pumps
- Explain the head pressure and how dangerous the air/water mixture is
- How to move a frac tank
- The operator will learn about the different style of pigs and what the uses are
- Testing vocabulary
- Testing safety

Prerequisites:

prior pipeline experience, a three week intermediate class is recommended in order to understand pipeline terms.

OSHA 502 Update for Construction

02/17/2026 - 02/19/2026

OPEN TO IUOE INSTRUCTORS ONLY.

RE-AUTHORIZES INSTRUCTOR TO TEACH:

10- and 30-Hour Construction Industry Outreach courses.

This course is for Outreach Training Program trainers who have completed OSHA #500 Trainer Course in Occupational Safety and Health Standards for the Construction Industry and are authorized trainers in the OSHA Outreach Training Program. The course provides the required update on OSHA Construction Standards, policies, and regulations as they continue to teach the 10- and 30-hour Construction Outreach Training Program classes.

Please note that

OSHA has no grace period

. After expiration, a trainer's authorization may only be reinstated by retaking the OSHA #500 course. The OSHA 510 will also be required if attended more than seven years prior. Extensions to the expiration date will not be granted.

Asphalt Paving Operations

02/17/2026 - 02/19/2026

An Introduction into the Asphalt Paving Process. This course will cover the safety aspects as well as the responsibilities of the Operating Engineer during the paving process.

3 Days

Blueprint Reading for Stationary Engineers

02/18/2026 - 02/22/2026

Students will be exposed to various subjects related to blueprint reading, such as blueprints, construction materials, construction methods, specifications, branding, and quantity takeoff. Students will spend approximately 70% of classroom time with hands-on labs utilizing a variety of the prints and specifications that are most often used as reference and guidance for the Stationary Engineer.

Specific emphasis on owner branding, electrical, HVAC, and plumbing prints, and their use in the industry.



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Training Course Schedule

Basic Controls & Building Automation Systems

02/21/2026 - 02/23/2026

This course has been developed for individuals who want to take the mystery out of the understanding of how DDC controls and Building Automation Systems operate, and also the insight of the various related software packages that drive these systems and how they manipulate these systems.

This seminar has also been designed for people not familiar DDC controls and Building Automation Systems. There will be lectures on basic control strategies, the basics of DDC hardware, and also the basic understanding of building optimization for curtailing the use of energy.

For the experienced people there will be discussions on advanced control technologies dealing with the architecture of Building Automation Systems, discussing how they are installed, wired, and then programmed. Also, there will be main topic lectures on DDC Main Controllers, Stand alone controllers, and their communication protocols.

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

- Understand the basic DDC and Analog control technology for the HVAC field
- Describe the different types of control actions and when to use them
- Identify Building Automation System main components and where they are used
- Define and select the proper Automation System for different locations
- Ascertain how Building Automation Systems Operate to maintain human comfort
- Define the different types of Analog and Binary inputs and outputs
- Understand the system wiring through various schematic diagrams of installed systems
- Comprehend the different type of operator interfaces and how they communicate
- Define criteria for control strategies such as with closed loop control
- Describe control strategies and how buildings are optimized for peak efficiency
- Understand how a PID loop is written and how to tweak it in for the maximum performance



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Training Course Schedule

- Define the different types of programming method

Pipeline - Horizontal Directional Drilling Profile Class

02/23/2026 - 02/28/2026

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. Apprentices and Journeyman are encouraged to apply. Members from all industry backgrounds are also encouraged to apply.

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Pipeline - Hydro-Excavation Truck Training

02/23/2026 - 02/28/2026

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.



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Training Course Schedule

- How to excavate a pipeline without damaging the protective coating
- Learn different trenching techniques.
- Learn the different nozzle selection
- Environmental concerns
- Maintenance
- Safety
- Terminology

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 six 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

Pipeline - Excavator - Intro to Pipeline Excavator

02/23/2026 - 03/05/2026

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.

This class is a 11 day 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

Crane Operations - Intro To Luffing Crawler Crane Operations

02/23/2026 - 02/27/2026

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.

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.

Prerequisites -

Member must be certified/licensed for mobile hydraulic and/or lattice cranes. Certifications/Licenses include OECP, NCCCO, Red Seal, Connecticut or New York State license.

Pipeline - Angle Dozer - Intro to Pipeline Angle Dozer

02/23/2026 - 03/05/2026

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 class is a 11 day 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:



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Training Course Schedule

- 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 - Sideboom - Intro to Pipeline Sideboom

02/23/2026 - 03/05/2026

Description:

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 8 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.

This class is a 11 day 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 8 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:



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Training Course Schedule

- 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 - Excavator - Intermediate Excavator - KENTUCKY

02/23/2026 - 03/14/2026

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.

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
- All the various applications of an excavator throughout the many different stages of construction
- How to dig a pipeline sloped ditch in the hills



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Training Course Schedule

- How to dig the point of intersections in the hills
- How to dig safe bell holes in the hills
- How to properly plug out in the hills
- How to dig road bore approaches and creek crossings
- How to dig for a box sag
- Understanding the pipeline terminology and vocabulary words
- Safety

GPS Machine Control

02/23/2026 - 02/27/2026

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.

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.

Crane Operations - Intro to Tower Crane

02/23/2026 - 02/27/2026

Introduction to Tower Crane Operations

(Level 1) - This course is for students with previous crane experience. The course will introduce students to three types of tower cranes: Hammerhead tower cranes, luffing boom tower cranes and self-erecting tower cranes. This course will cover cab controls and operating procedures. A major portion of the class will be hands on exercises teaching load control and operational dynamics.

- Prerequisites for Level 1 - Must have previous crane operating experience.

Introduction to Tower Crane Operations

(Level 1) - This course is for students with previous crane experience. The course will introduce students to three types of tower cranes: Hammerhead tower cranes, luffing boom tower cranes and self-erecting tower cranes. This course will cover cab controls and operating procedures. A major portion of the class will be hands on exercises teaching load control and operational dynamics.

Prerequisites for Level 1

- Must have previous crane operating experience.

Pipeline - Sideboom - Intermediate Sideboom Hydraulic Controls - KENTUC

02/23/2026 - 03/14/2026

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.

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:



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Training Course Schedule

- A pipeline spread – Explain in depth each individual crew
- Sideboom 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 carry a load using one sideboom or multiple machines
- How to correctly carry a joint of pipe with the aid of a swamper
- The multiple uses of a sideboom through various stages of pipeline construction
- Pipeline terminology and vocabulary
- Safety

Pipeline - Angle Dozer - Intermediate Angle Dozer - KENTUCKY

02/23/2026 - 03/14/2026

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.

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:



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Training Course Schedule

- 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.

Pipeline - Excavator - Excavator Procedures for Road Bore Approaches

02/23/2026 - 02/28/2026

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

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

The operators who attend this class will cover the following subjects:

- How to properly excavate cradle bore approaches.
- How to properly excavate track bore approaches.
- How to properly excavate the coming out side of the bore.
- How to properly excavate the working side of the bore area.
- How to properly utilize mats in the bore application.
- How to properly relay dirt utilizing 2 or more excavators.

Prerequisites:



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Training Course Schedule

It is recommended that a 3 week intermediate excavator class is completed prior to attending this class.

Pipeline - Vacuworxs Pipelifter

02/23/2026 - 02/28/2026

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 5 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 class will prepare the operator for the pipe handling procedures used in the pipeline industry.

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 5 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 class will prepare the operator for the pipe handling procedures used in the pipeline industry. The subjects covered will be:

- Loading and unloading a stringing truck
- Proper procedure for racking pipe in a pipe yard
- Proper procedure for stringing pipe down the right of way
- How to look for proper chocking of the pipe
- How to properly carry a joint of pipe up hills and down hills
- How to carry pipe underneath overhead power lines
- Overall safety
- Maintenance
- Pipeline terminology



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Training Course Schedule

Cooling Tower Operation & Maintenance

02/26/2026 - 02/27/2026

This seminar is focused on the care of evaporative cooling equipment. The course provides useful information about how to operate equipment for optimal performance and reliability. Students will learn the design of cooling towers. It covers water quality, water flow balance, water quantity, fill condition, fan systems, and overall maintenance.

Electrical Systems 2

03/01/2026 - 03/05/2026

This class builds off of Electrical Systems 1 so students should have taken that before this class or have comparable experience and understanding.

In this class, students will be provided a greater understanding of electrical principles and theory including series and parallel circuits and more advanced electric formulas. Students will gain the ability to read electrical prints, replace breakers, and perform troubleshooting using Fluke meters. This course includes substantial hands-on activities.

Pipeline - Bending - Darby Bending Operator Classes

03/02/2026 - 03/07/2026

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.

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.

Visit <https://iuoetraining.combobulate.io> for a Full Schedule and to Register for Classes

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Training Course Schedule

Also discussed are the enormous safety concerns that go along with bending pipe.

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.

Pipeline - Horizontal Directional Drilling Maintenance & Repair

03/02/2026 - 03/05/2026

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.

This class is a 4 day course. The course schedule is 10 hours a day. A typical day will consist of minimal classroom time with maximum field time "Hands on".



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Training Course Schedule

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

Chief Engineer Course

03/02/2026 - 03/06/2026

This Seminar is designed for chief engineers or engineers training to make the transition to chief or lead engineer. This seminar will provide the student the necessary administrative and personnel skills to handle the day-to-day leadership challenges associated with this position.

The ten sections are:

- Recommended Skills levels
- Planning and Time Management
- Budget Preparation
- Computer Applications

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Training Course Schedule

- Record Keeping
- Benefits of an Internal Work Force
- Reports and Presentations
- Health and Safety
- Human Relations
- Energy Conservation.

The Chief Engineers class has been updated as a Blended Learning Environment,

in which traditional face-to-face instruction is also supplemented with specific computer assisted Learning

. The purpose is to take advantage of the best features of both face-to-face and computer assisted learning in the same classroom setting. During class you will be given a set of credentials and guided how to log onto the platform. Once logged in, you will be instructed on how to use and navigate the system. Additionally, while performing some of the class exercises, you will be using various types of software for letter writing, email, budgets, presentations etc. With all that said, it would be advantageous if each member would bring their own laptop computer to class, being that some of these exercises will remain on the computer for the student's future reference. If you cannot bring your own laptop computer or you do not own a laptop computer, we can provide a computer for you to use during the class.

Pipeline - Excavator - Mat Handling/Bridge Building Training

03/02/2026 - 03/07/2026

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.



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Training Course Schedule

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

Crane Operations - Practical Testing for NCCCO Certification

03/02/2026 - 03/06/2026

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

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Training Course Schedule

Practical Testing for NCCCO Certification

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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

Pipeline - Hydro-Excavation Truck Training

03/02/2026 - 03/07/2026

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:



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Training Course Schedule

- 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

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 six 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.

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- 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



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Training Course Schedule

- Terminology

Crane Operations - Level 2 Luffing Crawler Crane Operations

03/02/2026 - 03/06/2026

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 have successfully completed an Intro to Luffing Crawler Cranes Operations course at ITEC. Members must also be certified/licensed for mobile hydraulic and/or lattice cranes. Certifications/Licenses include OECP, NCCCO, Red Seal.

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 have successfully completed an Intro to Luffing Crawler Cranes Operations course at ITEC. Members must also be certified/licensed for mobile hydraulic and/or lattice cranes. Certifications/Licenses include OECP, NCCCO, Red Seal.

GPS Machine Control

03/02/2026 - 03/06/2026

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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Training Course Schedule

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.

Pipeline - Vacuworxs Pipelifter

03/02/2026 - 03/07/2026

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 5 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 class will prepare the operator for the pipe handling procedures used in the pipeline industry.

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 5 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 class will prepare the operator for the pipe handling procedures used in the pipeline industry. The subjects covered will be:

- Loading and unloading a stringing truck



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Training Course Schedule

- Proper procedure for racking pipe in a pipe yard
- Proper procedure for stringing pipe down the right of way
- How to look for proper chocking of the pipe
- How to properly carry a joint of pipe up hills and down hills
- How to carry pipe underneath overhead power lines
- Overall safety
- Maintenance
- Pipeline terminology

Excavation Operations

03/02/2026 - 03/06/2026

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 competition of this course, the member will understand trench safety techniques and how to move dirt efficiently.

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 competition of this course, the member will understand trench safety techniques and how to move dirt efficiently.

Advanced Controls & Building Automation Systems

03/06/2026 - 03/08/2026

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 they are 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
- Program various types 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

Welding

03/09/2026 - 03/13/2026 - SMAW Welding

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

SMAW Welding

40 Hour HAZWOPER

03/09/2026 - 03/13/2026

Required for workers that perform activities that expose or potentially expose them to hazardous substances. This course is specifically designed for workers who voluntary clean up operations, emergency response operations, and of hazardous substances or uncontrolled hazardous waste sites. Topics include protection against hazardous chemicals, elimination of hazardous chemicals, safety of workers and the environment and OSHA regulations. This course covers topics included in 29 CFR 1910.120.

Pipeline - Bending - Darby Bending Operator Classes

03/09/2026 - 03/14/2026

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.

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.

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.



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Training Course Schedule

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.

Pipeline - Angle Dozer - Advanced Angle Dozer Training

03/09/2026 - 03/21/2026

This is a two week course. The course will be 10 hours a day, 6 days a week, Monday - Saturday. The class will consist of limited classroom time and a majority of field training. Apprentices and Journeyman are encouraged to apply. Prior attendance in our Intermediate Angle Dozer class is recommended before attending this class. A proficiency test will be given at the start of the class.

This is a two week course. The course will be 10 hours a day, 6 days a week, Monday - Saturday. The class will consist of limited classroom time and a majority of field training. Apprentices and Journeyman are encouraged to apply. Prior attendance in our Intermediate Angle Dozer class is recommended before attending this class. A proficiency test will be given at the start of the class.

During this class, the operator will be challenged with different tasks such as:

- Build sections of ROW for long periods



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Training Course Schedule

- Build ROW with PI's
- Build ROW with crossover
- Properly drag mats
- Build ROW out of Ditch Dirt
- Restore the ROW to as Good or Better than found

This class will operate very similar to a jobsite, while building a mock pipeline.

Pipeline - Pipe-lifter Stringing Class

03/09/2026 - 03/14/2026

This class is intended for experienced operators, a proficiency test will be given at the start of class. This class will be 6 days in length, consisting of 10 hours of field training daily.

The following task's will be covered:

- How to properly load a stringing trailer
- How to properly skid pipe joints
- How to properly set-up a start joint
- How to properly string pipe along a ditch-line
- How to properly string pipe in a tie-in situation (creek crossing, road crossing, etc.)
- How to properly position the machine in various scenario's while working on the ROW.
- How to properly string pipe on a hill side.
- All aspects of Stringing pipe shall be covered.

Crane Operations - Level 1 Crane Operations for Beginners

03/09/2026 - 03/13/2026

Crane Operations for Beginners

(Level 1) - In this class students will be taught the requirements for crane inspection, the basics of crane set up including LMI's and LML's. This portion of the class has a hands-on approach. The largest portion of the class will be actual seat time instruction in the "How To" operate a crane safely and build on basic skills necessary to lift loads.



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Training Course Schedule

Crane Operations for Beginners

(Level 1) - In this class students will be taught the requirements for crane inspection, the basics of crane set up including LMI's and LML's. This portion of the class has a hands-on approach. The largest portion of the class will be actual seat time instruction in the "How To" operate a crane safely and build on basic skills necessary to lift loads.

Prerequisites:

Prerequisite for Level 1 - Member must have taken an introductory course at their home local and be familiar with crane terminology and nomenclature.

Pipeline - Horizontal Directional Drilling/Mud Tech Advanced

03/09/2026 - 03/21/2026

This is a two week course, the class will run 6 days/week, 10 hours a day. This class is intended for the more experienced HDD/MUD Tech operator. Previous attendance in the 3 week HDD class is recommended.

This is a two week course, the class will run 6 days/week, 10 hours a day. This class is intended for the more experienced HDD/MUD Tech operator. Previous attendance in the 3 week HDD class is recommended. Subjects to be covered are as follows:

1. Advanced Mud Reclamation Formula's.
2. The process of reaming and pulling pipe.
3. How to utilize off - track guidance.
4. In depth rig break-down and set-up.
5. Build a bore profile with gps computer generated as-builts.
6. Safety Procedures.

This class will feature real life HDD procedures, operators will be hands on in the field.

Prerequisites:

Previous attendance to an HDD class is recommended



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Training Course Schedule

Pipeline - Sideboom - Advanced Sideboom Training

03/09/2026 - 03/21/2026

This is a two week course. The course will be 10 hours a day, 6 days a week, Monday - Saturday. The course will consist of limited classroom time and a majority of field training. Apprentices and Journeyman are encouraged to apply. Prior attendance in our Intermediate 3 week class is recommended before attending this class. A proficiency test will be given at the start of the class.

This is a two week course. The course will be 10 hours a day, 6 days a week, Monday - Saturday. The course will consist of limited classroom time and a majority of field training. Apprentices and Journeyman are encouraged to apply. Prior attendance in our Intermediate 3 week class is recommended before attending this class. A proficiency test will be given at the start of the class.

During this class, the operator will be challenged with different tasks such as:

- Lower - in procedures of longer sections of pipe
- Carry sections of pipe utilizing 3 or more Sidebooms
- Carry sections of pipe alongside excavators
- Carry Box sags
- Carry Sweeping Sags
- Learn about tie-in procedures
- How to properly feed a Bending machine
- How to thread pipe under flume pipes at creek/waterway crossings

Motorgrader Operations

03/09/2026 - 03/13/2026

This course will focus on upgrading the skills for the Operating Engineer on Motorgrader operations.

Level 1 Motorgrader Operations

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Training Course Schedule

Data Center Operations

03/09/2026 - 03/13/2026

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.

Crane Operations - Intro to Tower Crane

03/09/2026 - 03/13/2026

Introduction to Tower Crane Operations

(Level 1) - This course is for students with previous crane experience. The course will introduce students to three types of tower cranes: Hammerhead tower cranes, luffing boom tower cranes and self-erecting tower cranes. This course will cover cab controls and operating procedures. A major portion of the class will be hands on exercises teaching load control and operational dynamics.

- Prerequisites for Level 1 - Must have previous crane operating experience.

Introduction to Tower Crane Operations

(Level 1) - This course is for students with previous crane experience. The course will introduce students to three types of tower cranes: Hammerhead tower cranes, luffing boom tower cranes and self-erecting tower cranes. This course will cover cab controls and operating procedures. A major portion of the class will be hands on exercises teaching load control and operational dynamics.



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Training Course Schedule

Prerequisites for Level 1

- Must have previous crane operating experience

Pipeline - Excavator - Advanced Excavator Training

03/09/2026 - 03/21/2026

This is a two week course. The course will be 10 hours a day, 6 days a week, Monday - Saturday. The course will consist of limited classroom time and a majority of time will be spent in the field. Apprentices and Journeyman are encouraged to apply. Prior attendance in our Intermediate 3 week excavator course is recommended before attending this class. A proficiency test will be given at the start of the class.

The class to be held in Kentucky will be Advanced Winch Training.

This is a two week course. The course will be 10 hours a day, 6 days a week, Monday - Saturday. The course will consist of limited classroom time and a majority of time will be spent in the field. Apprentices and Journeyman are encouraged to apply. Prior attendance in our Intermediate 3 week excavator course is recommended before attending this class. A proficiency test will be given at the start of the class.

During this class, the operator will be challenged with different tasks such as:

- Build a ROW
- Excavate continuous Ditch correctly
- Excavate Bellholes where needed
- Excavate around Hotlines
- Excavate Creek/Waterways
- Work of Mats
- Pad and Backfill Pipe
- ROW Restoration
- Take up
- Excavate existing pipelines



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Training Course Schedule

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This class will operate similar to a jobsite, in conjunction with building a mock pipeline.

The class to be held in Kentucky will be Advanced Winch Training.

Pipeline - Hydro-Excavation - Advanced Hydro-Excavation Truck Training

03/09/2026 - 03/14/2026

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 one week in length; six days total, Monday – Saturday, the class runs 10 hours a day. The class will consist of one instructor and six 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 - Excavator - Excavator Procedures for Existing Live Pipelines

03/09/2026 - 03/21/2026

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.

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 six 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

Rooftop Unit Maintenance & HVAC Troubleshooting

03/10/2026 - 03/13/2026

Light commercial Rooftop units are the topic of this class.. There will be extensive hands-on training for maintenance and service engineers who have had basic air conditioning training.

Students must have the EPA Universal Certification to participate in the practical activities of the course

. The focus will be on identifying various components of RTU's , charging practices , troubleshooting , repair, and maintenance.

Boiler System Efficiency

03/11/2026 - 03/13/2026

The course is designed to assist in the education and development for the individual who has the responsibilities for the day-to-day operation and maintenance of their boiler and the ancillary equipment. Individual will gain the knowledge and understanding of how to properly operate the equipment safely and more efficiently. This course will provide the proper sequence of operation or timing that will assist in the troubleshooting area and reduce downtime and increase reliability. The program included plant tours to reinforce lessons learned.

Electrical Troubleshooting & Variable Frequency Drive Operations

03/13/2026 - 03/16/2026

This four-day seminar is designed to provide the knowledge and skills required when selecting, installing, testing and troubleshooting electrical systems the motors they control, and the control circuits connected to them. In this hands-on seminar, students will build, program and test VFD, motors and control circuits.

Test instruments covered and used include digital multi-meters (DMMs), current clamps and meter attachments. Topics, circuits, and equipment covered include:

- Test instrument terminology, symbols and measurement functions for each type of instrument used is covered to learn what test instruments should and should not be used circuits.
- Learn the safe and correct way to take electrical measurements and what the measurements actually mean.
- Learn where and how to use special meter functions like MIN/MAX, RELATIVE, LoZ, Peak, kVA, kW, and PF measurement functions.



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Training Course Schedule

- Learn how to test for grounding problems.
- Understanding VFD and motor nameplate data.
- Learn how to test and wire any three-phase motor without using the motors wiring diagram and what the expected readings should be before power is applied and how to troubleshoot the motor after power is applied.
- Circuits built include using, magnetic motor starters, mechanical and solid-state switches, such as, selector switches, proximity switches, photoelectric switches, analog inputs (photovoltaic and potentiometers), and other commonly used electrical devices.
- Connect, program, and test VFDs (variable frequency drives).
- Take power measurements (P.F., kVA, kW, and harmonic) to understand power quality problems.

Generator Maintenance & Operation

03/15/2026 - 03/18/2026

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.

Pipeline - Bending - Darby Bending Operator Classes

03/16/2026 - 03/21/2026

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.

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Training Course Schedule

Classroom instruction involves mathematical formulas.

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.

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.

Pipeline - Excavator - Rough Terrain/Hill Procedures/Winching - KENTUCKY

03/16/2026 - 04/03/2026

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.

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
- All the various applications of an excavator throughout the many different stages of construction
- How to dig a pipeline sloped ditch on a slope.
- How to dig the point of intersections on a slope.
- How to dig safe bell holes on a slope.
- How to properly plug out on a slope.
- How to dig road bore approaches and creek crossings in the hills.
- The proper procedures to dig ditch in the hills.
- How to dig layered rock.
- How to be properly winched by a winch tractor.
- How to properly dig utilizing a winch line.
- How to properly walk with a winch tractor.
- How to properly build water – breakers.
- Understanding the pipeline terminology and vocabulary words.
- Safety



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Training Course Schedule

Crane Operations - Practical Testing for NCCCO Certification

03/16/2026 - 03/20/2026

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

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



Training Course Schedule

- Lattice Boom Cranes
- Telescopic Boom Cranes—Swing Cab (TLL)
- Telescopic Boom Cranes—Fixed Cab (TSS)
- Tower Crane
- Overhead Crane

Pipeline - Sideboom - Rough Terrain/Hill Procedures/Winching - KENTUCKY

03/16/2026 - 04/03/2026

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. Sidebooms utilized in this course are Hydraulic and Live tractors.

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.

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. Sidebooms utilized in this course are Hydraulic and Live tractors.

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.
- Sideboom controls.
- How to be winched by a single tractor.
- The proper procedures to be winched over different terrains and conditions.



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Training Course Schedule

- The proper procedures of multiple tractors being winched at the same time.
- How to properly carry a section of pipe down a slope.
- How to “stove-pipe” and lower-in pipe on a slope.
- How to deal with endo/pipe movement.
- How to properly cross-clutch steer on a hillside.
- Pipeline terminology and vocabulary

Pipeline - Deckhand Pipe Lifter

03/16/2026 - 03/21/2026

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 5 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 class will prepare the operator for the pipe handling procedures used in the pipeline industry.

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 5 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 class will prepare the operator for the pipe handling procedures used in the pipeline industry. The subjects covered will be:

- Loading and unloading a stringing truck.
- Proper procedure for racking pipe in a pipe yard.
- Proper procedure for stringing pipe down the right of way.
- How to look for proper chocking of the pipe.
- How to properly carry a joint of pipe up hills and down hills.



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Training Course Schedule

- How to carry pipe underneath overhead power lines.
- Overall safety
- Maintenance of the pipelifter
- Pipeline terminology

Motorgrader Operations

03/16/2026 - 03/20/2026

This course will focus on upgrading the skills for the Operating Engineer on Motorgrader operations.

Motorgrader Operations

- This course will focus on upgrading the skills for the Operating Engineer on Motorgrader operations.

GPS Modeling and Takeoff

03/16/2026 - 03/20/2026

GPS Modeling and Takeoff -

In Modeling and Takeoff, members will learn the basics of creating a design Model for use in machines and rovers, as well as how to do a simple office takeoff for Bidding purposes. Members will be lead through the process of building at least one simple site project and a simple road project and will export them into all three GPS systems used at ITEC; Leica, Topcon, Trimble. Members will also create a simple site project Takeoff for Bidding purposes.

CAD software used in this class will be primarily Trimble Business Center. Trimble Business Center is a robust software capable of creating and exporting designs to any GPS system. Magnet office by Topcon is also on site and available to members.

GPS Modeling and Takeoff -

In Modeling and Takeoff, members will learn the basics of creating a design Model for use in machines and rovers, as well as how to do a simple office takeoff for Bidding purposes. Members will be lead through the process of building at least one simple site project and a simple road project and will export them into all three GPS systems used at ITEC; Leica, Topcon, Trimble. Members will also create a simple site project Takeoff for Bidding purposes.



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Training Course Schedule

CAD software used in this class will be primarily Trimble Business Center. Trimble Business Center is a robust software capable of creating and exporting designs to any GPS system. Magnet office by Topcon is also on site and available to members.

Pipeline - Angle Dozer - Rough Terrain/Hill Procedures/Winching - KENTUCKY

03/16/2026 - 04/03/2026

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. Safety will be a big topic of discussion in this class as the winch operation is very dangerous work if done the improper way.

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. Safety will be a big topic of discussion in this class as the winch operation is very dangerous work if done the improper way. The following subjects will be covered:

- A pipeline spread - Explain in depth each individual crew
- All the various applications of the winch
- How to efficiently and safely trip the cable while winching
- How to winch with multiple machines involved
- Learn the safety hazards involved with the winch operations
- How to properly hook up to another machine



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Training Course Schedule

- How to properly winch a sideboom or hold an excavator on a hillside
- 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
- Understand the importance of communication on the jobsite
- Safety

Pipeline - Hydro-Excavation - Advanced Hydro-Excavation Truck Training

03/16/2026 - 03/21/2026

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 one week in length; six days total, Monday – Saturday, the class runs 10 hours a day. The class will consist of one instructor and six 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.



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Training Course Schedule

Solar Panel Installation Maintenance & Troubleshooting

03/17/2026 - 03/20/2026

This course work will include information on site location, system sizing, mounting options, system components, configurations, mechanical, electrical integration and code requirements. Topics also include Solar Radiation, System Components, Cells, Modules, and Arrays, Batteries, Inverters, System Sizing, Mechanical Integration, Electrical Integration, Utility Interconnection, Permitting and Inspection, Commissioning, Maintenance, and Troubleshooting. Students will receive hands on training in installation and configuration of actual solar voltaic systems.

Automatic Transfer Switch (ATS) for Generators

03/19/2026 - 03/21/2026

The focus of this course is on Automatic Transfer Switches & Emergency Standby Generator and how they may be applied in a variety of settings and industrial sectors. Standby generators are used primarily to provide backup power if utility power from the utility electrical distribution system is lost.

This course will discuss the operation of Automatic Transfer Switches & Generators, their application, how they are integrated into the overall electrical system, auxiliary supporting equipment and generator package maintenance. This course will cover many practical examples and will be interactive for students to gain a broad overall understanding of standby generators.

At the completion of this course, students will be able to perform startup, commissioning and maintenance activities on automatic transfer switches and controllers related to generators. Students will learn about the transfer switch equipment that is currently being used in today's industry. Hands-on activity will comprise at least half of the time spent in training activities.

NATE Test Prep

03/20/2026 - 03/22/2026

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/) (

[**https://natex.org/**](https://natex.org/)

)

It is recommended to have and review both study guides prior to the session.

Core - NATE (natex.org)

Air Conditioning and Heat Pumps - NATE (natex.org)

There is \$140 fee to be paid by the student for each test. (Test pricing subject to change per NATE)

Prerequisites:

The NATE Test Prep offered at the ITEC is designed for journey level engineers who have hands on knowledge of fundamental electrical, HVAC and refrigeration principles, as well as practical field experience.

It is recommended to have and review both study guides.

There is \$140 fee to be paid by the student for each test.

Basic Controls & Building Automation Systems

03/21/2026 - 03/23/2026

This course has been developed for individuals who want to take the mystery out of the understanding of how DDC controls and Building Automation Systems operate, and also the insight of the various related software packages that drive these systems and how they



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Training Course Schedule

manipulate these systems.

This seminar has also been designed for people not familiar DDC controls and Building Automation Systems. There will be lectures on basic control strategies, the basics of DDC hardware, and also the basic understanding of building optimization for curtailing the use of energy.

For the experienced people there will be discussions on advanced control technologies dealing with the architecture of Building Automation Systems, discussing how they are installed, wired, and then programmed. Also, there will be main topic lectures on DDC Main Controllers, Stand alone controllers, and there communication protocols.

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

- Understand the basic DDC and Analog control technology for the HVAC field
- Describe the different types of control actions and when to use them
- Identify Building Automation System main components and where they are used
- Define and select the proper Automation System for different locations
- Ascertain how Building Automation Systems Operate to maintain human comfort
- Define the different types of Analog and Binary inputs and outputs
- Understand the system wiring though various schematic diagrams of installed systems
- Comprehend the different type of operator interfaces and how they communicate
- Define criteria for control strategies such as with closed loop control
- Describe control strategies and how buildings are optimized for peak efficiency
- Understand how a PID loop is written and how to tweak it in for the maximum performance
- Define the different types of programming method

Low Pressure Boiler Operations

03/21/2026 - 03/25/2026

Low Pressure Boiler Operations course will help to assist in preparing the Stationary Engineer for the proper operation of Low-Pressure boilers and will also help with preparing for the facility operating engineer licensing. This course provides a comprehensive overview of the latest information on the safe and efficient operation of low-pressure steam and hot water boilers, cooling systems, and related equipment. The course is divided into sections to aid comprehension of key concepts:

- Boiler Operation Principles
- Steam Boiler Fittings
- Steam Boiler Feedwater Systems
- Steam Systems
- Fuel Systems
- Draft Systems
- Boiler Water Treatment
- Boiler Operation Procedures
- Hot Water Boilers and Fittings
- Hot Water Boiler Accessories and Piping Systems
- Cooling Systems
- Boiler Operation Safety
- Boiler Operator Licensing

Welding

03/23/2026 - 03/27/2026 - SMAW Welding

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

SMAW Welding

Pump Maintenance & Operation

03/23/2026 - 03/26/2026

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.

Pipeline - Bending - Darby Bending Operator Classes

03/23/2026 - 03/28/2026

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.

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.

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:



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Training Course Schedule

- 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.

Crane Operations - Assembly/Disassembly of Luffing Crawler Cranes

03/23/2026 - 04/01/2026

Assembly/Disassembly of Luffing Crawler Cranes -

This course will take the member through the hands-on step by step procedures to assemble and disassemble a Manitowoc MLC-165 with luffing boom and a Liebherr 1130 with luffing boom. Students will learn the similarities and differences these procedures have to similar cranes. Members will be expected to participate fully in the physical work of assembly and disassembly.

Prerequisites -

Member must have luffing crane operational experience or 5 years of mechanical experience with cranes.

Assembly/Disassembly of Luffing Crawler Cranes -

This course will take the member through the hands-on step by step procedures to assemble and disassemble a Manitowoc MLC-165 with luffing boom and a Liebherr 1130 with luffing boom. Students will learn the similarities and differences these procedures have to similar cranes. Members will be expected to participate fully in the physical work of assembly and disassembly.

Prerequisites

Visit <https://iuoetraining.combobulate.io> for a Full Schedule and to Register for Classes

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Training Course Schedule

- Member must have luffing crane operational experience or 5 years of mechanical experience with cranes.

Pipeline - Angle Dozer - Advanced Angle Dozer Training

03/23/2026 - 04/03/2026

This is a two week course. The course will be 10 hours a day, 6 days a week, Monday - Saturday. The class will consist of limited classroom time and a majority of field training. Apprentices and Journeyman are encouraged to apply. Prior attendance in our Intermediate Angle Dozer class is recommended before attending this class. A proficiency test will be given at the start of the class.

This is a two week course. The course will be 10 hours a day, 6 days a week, Monday - Saturday. The class will consist of limited classroom time and a majority of field training. Apprentices and Journeyman are encouraged to apply. Prior attendance in our Intermediate Angle Dozer class is recommended before attending this class. A proficiency test will be given at the start of the class.

During this class, the operator will be challenged with different tasks such as:

- Build sections of ROW for long periods
- Build ROW with PI's
- Build ROW with crossover
- Properly drag mats
- Build ROW out of Ditch Dirt
- Restore the ROW to as Good or Better than found

This class will operate very similar to a jobsite, while building a mock pipeline.

Pipeline - Deckhand Pipe Lifter

03/23/2026 - 03/28/2026

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 5 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 class will prepare the operator for the pipe handling procedures used in the pipeline industry.

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 5 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 class will prepare the operator for the pipe handling procedures used in the pipeline industry. The subjects covered will be:

- Loading and unloading a stringing truck.
- Proper procedure for racking pipe in a pipe yard.
- Proper procedure for stringing pipe down the right of way.
- How to look for proper chocking of the pipe.
- How to properly carry a joint of pipe up hills and down hills.
- How to carry pipe underneath overhead power lines.
- Overall safety
- Maintenance of the pipelifter
- Pipeline terminology

Pipeline - Excavator procedures for Waterway/Creek Crossings

03/23/2026 - 03/28/2026

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

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



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Training Course Schedule

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.

Prerequisites:

It is recommended that a three week intermediate excavator course has been completed prior to attending.

Pipeline - Horizontal Directional Drilling/Mud Tech Advanced

03/23/2026 - 04/03/2026

This is a two week course, the class will run 6 days/week, 10 hours a day. This class is intended for the more experienced HDD/MUD Tech operator. Previous attendance in the 3 week HDD class is recommended.

This is a two week course, the class will run 6 days/week, 10 hours a day. This class is intended for the more experienced HDD/MUD Tech operator. Previous attendance in the 3 week HDD class is recommended. Subjects to be covered are as follows:

1. Advanced Mud Reclamation Formula's.
2. The process of reaming and pulling pipe.
3. How to utilize off - track guidance.
4. In depth rig break-down and set-up.
5. Build a bore profile with gps computer generated as-builts.
6. Safety Procedures.

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Training Course Schedule

This class will feature real life HDD procedures, operators will be hands on in the field.

Prerequisites:

Previous attendance to an HDD class is recommended

Pipeline - Sideboom - Advanced Sideboom Training

03/23/2026 - 04/03/2026

This is a two week course. The course will be 10 hours a day, 6 days a week, Monday - Saturday. The course will consist of limited classroom time and a majority of field training. Apprentices and Journeyman are encouraged to apply. Prior attendance in our Intermediate 3 week class is recommended before attending this class. A proficiency test will be given at the start of the class.

This is a two week course. The course will be 10 hours a day, 6 days a week, Monday - Saturday. The course will consist of limited classroom time and a majority of field training. Apprentices and Journeyman are encouraged to apply. Prior attendance in our Intermediate 3 week class is recommended before attending this class. A proficiency test will be given at the start of the class.

During this class, the operator will be challenged with different tasks such as:

- Lower - in procedures of longer sections of pipe
- Carry sections of pipe utilizing 3 or more Sidebooms
- Carry sections of pipe alongside excavators
- Carry Box sags
- Carry Sweeping Sags
- Learn about tie-in procedures
- How to properly feed a Bending machine
- How to thread pipe under flume pipes at creek/waterway crossings

Crane Operations - LMI Setup & Crane Operations

03/23/2026 - 04/02/2026

LMI Set-up & Crane Operations (Level 1)

- 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, outrigger and jib set-up for a variety of cranes.

Prerequisites for Level 1

– Member must have completed ITEC Level 1 Crane Operations course or be certified/licensed for hydraulic and/or lattice boom cranes. Certifications/licenses include NCCCO, OECP, Red Seal, Connecticut or New York State license.

Two Week Course - Monday through the following Thursday. Training on Saturday, off on Sunday.

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.

Prerequisites

– Member must have completed ITEC Level 1 Crane Operations course or be certified/licensed for hydraulic and/or lattice boom cranes. Certifications/licenses include NCCCO, OECP, Red Seal.

Crane Operations - All Terrain Crane Set-up & Operations - Level 1

03/23/2026 - 03/27/2026

All Terrain Crane Set-up & Operations Level 1

- During this one-week course, the student will be entered into a crane yard rental scenario. They will learn safe driving habits along with maneuvering the crane with and without the boom dolly. They will install the counterweights, set-up and configure the crane in the scenario described by the instructor as if on a job site and then perform the scheduled task.

Prerequisites -

Members must have a certification/license for large hydraulic crane and CDL license. Certifications/licenses include NCCCO, OECP, Red Seal and New York or Connecticut State License.



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Training Course Schedule

All Terrain Crane Set-up & Operations

- During this one-week course, the student will be entered into a crane yard rental scenario. They will learn safe driving habits along with maneuvering the crane with and without the boom dolly. They will install the counterweights, set-up and configure the crane in the scenario described by the instructor as if on a job site and then perform the scheduled task.

Prerequisites -

Members must have a certification/license for large hydraulic crane and CDL license. Certifications/licenses include NCCCO, OECP, Red Seal and New York or Connecticut State License.

GPS Machine Control

03/23/2026 - 03/27/2026

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.

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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Training Course Schedule

Pipeline - Excavator - Advanced Excavator Training

03/23/2026 - 04/03/2026

This is a two week course. The course will be 10 hours a day, 6 days a week, Monday - Saturday. The course will consist of limited classroom time and a majority of time will be spent in the field. Apprentices and Journeyman are encouraged to apply. Prior attendance in our Intermediate 3 week excavator course is recommended before attending this class. A proficiency test will be given at the start of the class.

The class to be held in Kentucky will be Advanced Winch Training.

This is a two week course. The course will be 10 hours a day, 6 days a week, Monday - Saturday. The course will consist of limited classroom time and a majority of time will be spent in the field. Apprentices and Journeyman are encouraged to apply. Prior attendance in our Intermediate 3 week excavator course is recommended before attending this class. A proficiency test will be given at the start of the class.

During this class, the operator will be challenged with different tasks such as:

- Build a ROW
- Excavate continuous Ditch correctly
- Excavate Bellholes where needed
- Excavate around Hotlines
- Excavate Creek/Waterways
- Work of Mats
- Pad and Backfill Pipe
- ROW Restoration
- Take up
- Excavate existing pipelines
-

This class will operate similar to a jobsite, in conjunction with building a mock pipeline.



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Training Course Schedule

The class to be held in Kentucky will be Advanced Winch Training.

Pipeline - Hydro-Excavation - Advanced Hydro-Excavation Truck Training

03/23/2026 - 03/28/2026

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 one week in length; six days total, Monday – Saturday, the class runs 10 hours a day. The class will consist of one instructor and six 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.

Certified Pool Operator

03/24/2026 - 03/26/2026

This course will prepare the student for the Pool & Hot Tub Alliance (PHTA) (formerly National Swimming Pool Foundation (NSPF) certified pool operator exam. The test will be administered by an authorized PHTA instructor on the last day of the course. The certification is valid for five years from date of course completion. There is a cost to the student of \$45.00 for the certification.

OSHA 502 Update for Construction

03/24/2026 - 03/26/2026

OPEN TO IUOE INSTRUCTORS ONLY.

RE-AUTHORIZES INSTRUCTOR TO TEACH:

10- and 30-Hour Construction Industry Outreach courses.

This course is for Outreach Training Program trainers who have completed OSHA #500 Trainer Course in Occupational Safety and Health Standards for the Construction Industry and are authorized trainers in the OSHA Outreach Training Program. The course provides the required update on OSHA Construction Standards, policies, and regulations as they continue to teach the 10- and 30-hour Construction Outreach Training Program classes.

Please note that

OSHA has no grace period

. After expiration, a trainer's authorization may only be reinstated by retaking the OSHA #500 course. The OSHA 510 will also be required if attended more than seven years prior. Extensions to the expiration date will not be granted.

Pipeline - Deckhand Pipe Lifter

03/30/2026 - 04/03/2026

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 5 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.



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Training Course Schedule

This class will prepare the operator for the pipe handling procedures used in the pipeline industry.

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 5 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 class will prepare the operator for the pipe handling procedures used in the pipeline industry. The subjects covered will be:

- Loading and unloading a stringing truck.
- Proper procedure for racking pipe in a pipe yard.
- Proper procedure for stringing pipe down the right of way.
- How to look for proper chocking of the pipe.
- How to properly carry a joint of pipe up hills and down hills.
- How to carry pipe underneath overhead power lines.
- Overall safety
- Maintenance of the pipelifter
- Pipeline terminology

Pipeline - Excavator procedures for Waterway/Creek Crossings

03/30/2026 - 04/03/2026

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

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.



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Training Course Schedule

- 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.

Prerequisites:

It is recommended that a three week intermediate excavator course has been completed prior to attending.

Pipeline - Hydro-Excavation - Advanced Hydro-Excavation Truck Training

03/30/2026 - 04/03/2026

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 one week in length; six days total, Monday – Saturday, the class runs 10 hours a day. The class will consist of one instructor and six 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.



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Training Course Schedule

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.

Excavation Operations

03/30/2026 - 04/03/2026

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 competition of this course, the member will understand trench safety techniques and how to move dirt efficiently.

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 competition of this course, the member will understand trench safety techniques and how to move dirt efficiently.

Crane Operations - Crane Standards Training and Load Chart Review for Written Exam

04/07/2026 - 04/10/2026

Crane Operations – Crane Standards Training and Load Chart Review for Written Exam – Mobile Cranes -

This course will include standards from OSHA 1926.1400 and ASME B30.6, load chart and range diagram review.

Crane Operations – Crane Standards Training and Load Chart Review for Written Exam – Mobile Cranes -

This course will include standards from OSHA 1926.1400 and ASME B30.6, load chart and range diagram review.

GPS Rover Training

04/07/2026 - 04/10/2026

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 classroom 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.

Four Day Course

-

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 classroom 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.

Boiler Operations 1

04/09/2026 - 04/13/2026

The Boiler Operation 1 course is an introductory course that will provide stationary engineers and maintenance personnel a foundational understanding of boilers, steam and heating. Students will learn how boiler systems work, gain an understanding of boiler safety and learn about various boiler fittings and accessories. Upon completing the class, students will understand basic heat and steam principles, and know how to safely perform an inspection of an operating boiler.

Welding

04/13/2026 - 04/17/2026 - SMAW Welding

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

SMAW Welding

Electrical Systems 1

04/13/2026 - 04/17/2026

Electricity is a fundamental part of most tasks that the stationary engineer performs. Whether one works with motors, chillers, boilers, air handlers, lighting, or controls, electricity plays a part of each.

This course equips the stationary engineer with knowledge of electrical principals, electrical safety, how to perform electrical calculations, and gives an understanding of both AC and DC electrical components. Students have the opportunity to also perform hands on activities to reinforce the coursework.

This course is a suggested pre-requisite for Electrical Systems 2 course.

Pipeline - Low Boy Driver Training - Class A License Required

04/13/2026 - 04/18/2026

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.



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Training Course Schedule

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 - Excavator - Intermediate Excavator

04/13/2026 - 05/02/2026

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.

Safety

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.



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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 depth each individual crew
- All the various applications of an excavator throughout the many different stages of construction
- How to dig a pipeline sloped ditch
- How to dig the point of intersections
- How to dig safe bell holes
- How to properly plug out
- How to dig road bore approaches and creek crossings
- How to dig for a box sag
- Understanding the pipeline terminology and vocabulary words
- Safety

Pipeline - John Henry Rock Drilling - Kentucky

04/13/2026 - 04/18/2026

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.

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:



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Training Course Schedule

- 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 - Intermediate Sideboom Hydraulic Controls

04/13/2026 - 05/02/2026

SIDEBOOM – INTERMEDIATE TRAINING

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 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



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Training Course Schedule

- Sideboom 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 carry a load using one sideboom or multiple machines
- How to correctly carry a joint of pipe with the aid of a swamper
- The multiple uses of a sideboom through various stages of pipeline construction
- Pipeline terminology and vocabulary
- Safety

Pipeline - Hydro-Excavation Truck Training

04/13/2026 - 04/18/2026

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

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Training Course Schedule

- Maintenance
- Safety
- Terminology

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 six 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

Pipeline - Excavator class for Bellholes

04/13/2026 - 04/18/2026

This class is intended for experienced operators who have previously attended a 3-week intermediate pipeline excavator course. This class will emphasize the techniques of digging a bellhole and concentrate on the proper excavation of a bellhole. The member will practice sloping, egress, etc.

- This class is intended for experienced operators who have previously attended a 3-week intermediate pipeline excavator course. This class will emphasize the techniques of digging a bellhole and concentrate on the proper excavation of a bellhole. The member will practice sloping, egress, etc.
- This class is a one-week course. The course schedule is 10 hours a day, 5 days in length, Monday-Friday. A typical day will consist of 10 hours of practical field training. Classes are intended for experienced operators, although apprentices with good skills are encouraged to apply. This course will prepare you for working in the pipeline industry. The following tasks will be covered: Proper sloping of a bellhole, How to excavate a slide egress, How to excavate a stair egress, Understanding the pipeline terminology and vocabulary words, Safety.

Motorgrader Operations

04/13/2026 - 04/17/2026

This course will focus on upgrading the skills for the Operating Engineer on Motorgrader operations.

Motorgrader Operations

- This course will focus on upgrading the skills for the Operating Engineer on Motorgrader operations.

Pipeline - HDD - Intro to Horizontal Directional Drilling

04/13/2026 - 04/18/2026

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:



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Training Course Schedule

- 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

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

GPS Machine Control

04/13/2026 - 04/17/2026

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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Training Course Schedule

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.

Crane Operations - All Terrain Crane Set-up and Operations - Level 2

04/13/2026 - 04/17/2026

All Terrain Crane Set-up and Operations - Level 2

course will build off the Level 1 class. The class will be given a brief review from Level 1. A/T Level 2 students will properly set up the cranes with full counterweight and jib. The students will learn how to read job site travel charts from the operator's manual and travel the crane fully dressed with and without jib in many different configurations. Seat time will be plentiful as students will get to operate with the hydraulic offset jibs in many configurations.

Prerequisites - Members must attend a Level 1 ALL TERRAIN CRANE SETUP and OPERATIONS CLASS at the ITEC in CROSBY, TEXAS

- Members must have a certification/license for large hydraulic crane and CDL license. Certifications/licenses include NCCCO, OECP, Red Seal and New York or Connecticut State License.

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 have successfully completed an Intro to Luffing Crawler Cranes Operations course at ITEC. Members must also be certified/licensed for mobile hydraulic and/or lattice cranes. Certifications/Licenses include OECP, NCCCO, Red Seal.

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Training Course Schedule

Crane Operations – Tower Crane Standards Training & Load Chart Review

04/13/2026 - 04/17/2026

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.

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

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.

Pipeline - Angle Dozer - Intermediate Angle Dozer

04/13/2026 - 05/02/2026

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 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

Facility Water Chemistry & Treatment

04/13/2026 - 04/15/2026

This seminar covers the chemistry behind plant & facility water treatment programs and how it helps ensure that water systems are safe from scale, corrosion, oxygen, carryover, and other issues. Hands on training of actual plant & facility water systems at the training center will also be included.

Instrumentation & Controls

04/13/2026 - 04/17/2026

Instrumentation and Controls is an introductory course covering basic skills and concepts used in the field. The curriculum will provide students with a solid foundation for various industrial applications and process operations in various stationary facilities. The course will cover instrumentation principles including pressure, flow, level and temperature as well as safety and tools of the trade.

Students will become familiar with control valves and controllers and learn various control schemes which include transmitter calibration and system troubleshooting.

Commercial Refrigeration Applications 1

04/14/2026 - 04/18/2026

This course introduces the theory and aspects of commercial refrigeration equipment operation.

Member must have taken HVAC Systems 1, HVAC Systems 2 and hold an EPA 608 Universal certificate to attend.

Low, medium and high temperature equipment applications will be explained using electrical schematics and system diagrams. This is a lab focused course allowing students to assemble basic refrigeration system components to complete a working system and practice skills necessary to perform preventative and predictive maintenance on these systems.

Pump Maintenance & Operation

04/20/2026 - 04/23/2026

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.



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Training Course Schedule

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.

Pipeline - Low Boy Driver Training - Class A License Required

04/20/2026 - 04/25/2026

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 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 - John Henry Rock Drilling - Kentucky

04/20/2026 - 04/25/2026

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.

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 - Horizontal Directional Drilling Maintenance & Repair

04/20/2026 - 04/25/2026

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.

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:



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Training Course Schedule

- 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

Pipeline - Hydro-Excavation Truck Training

04/20/2026 - 04/25/2026

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.

Visit <https://iuoetraining.combobulate.io> for a Full Schedule and to Register for Classes

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Training Course Schedule

- 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

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 six 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

Crane Operations - Level 1 Crane Operations for Beginners

04/20/2026 - 04/24/2026

Crane Operations for Beginners

(Level 1) - In this class students will be taught the requirements for crane inspection, the basics of crane set up including LMI's and LML's. This portion of the class has a hands-on approach. The largest portion of the class will be actual seat time instruction in the "How To" operate a crane safely and build on basic skills necessary to lift loads.

Crane Operations for Beginners

(Level 1) - In this class students will be taught the requirements for crane inspection, the basics of crane set up including LMI's and LML's. This portion of the class has a hands-on approach. The largest portion of the class will be actual seat time instruction in the "How To" operate a crane safely and build on basic skills necessary to lift loads.

Prerequisites:

Prerequisite for Level 1 - Member must have taken an introductory course at their home local and be familiar with crane terminology and nomenclature.

Crane Operations - Intro To Luffing Crawler Crane Operations

04/20/2026 - 04/24/2026

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.

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.

Prerequisites -

Member must be certified/licensed for mobile hydraulic and/or lattice cranes. Certifications/Licenses include OECP, NCCCO, Red Seal, Connecticut or New York State license.

Mechanics Training - Electronic Fundamentals

04/20/2026 - 04/24/2026

Mechanics Training - Electronic Fundamentals

This course will give the students 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 DVOM for troubleshooting electrical circuits.
- Identify and read the schematic symbols in a typical electrical schematic.
- Troubleshoot using a diagnostic code and understanding how the code is generated.

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

Mechanics Training - Electronic Fundamentals

This course will give the students 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 DVOM for troubleshooting electrical circuits.
- Identify and read the schematic symbols in a typical electrical schematic.
- Troubleshoot using a diagnostic code and understanding how the code is generated.

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

Data Center Operations

04/20/2026 - 04/24/2026

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.



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Training Course Schedule

Crane Operations - Intro to Tower Crane

04/20/2026 - 04/24/2026

Introduction to Tower Crane Operations

(Level 1) - This course is for students with previous crane experience. The course will introduce students to three types of tower cranes: Hammerhead tower cranes, luffing boom tower cranes and self-erecting tower cranes. This course will cover cab controls and operating procedures. A major portion of the class will be hands on exercises teaching load control and operational dynamics.

- Prerequisites for Level 1 - Must have previous crane operating experience.

Introduction to Tower Crane Operations

(Level 1) - This course is for students with previous crane experience. The course will introduce students to three types of tower cranes: Hammerhead tower cranes, luffing boom tower cranes and self-erecting tower cranes. This course will cover cab controls and operating procedures. A major portion of the class will be hands on exercises teaching load control and operational dynamics.

Prerequisites for Level 1

- Must have previous crane operating experience.

Pipeline - Excavator - "Pipe joints/Pipe sections" Handling Procedures for

04/20/2026 - 04/25/2026

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.

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.



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Training Course Schedule

During the class, the operator will be challenged with different tasks utilizing pipe joints and sections.

- carrying single joints and/or sections
- How to properly set pipe into the clamps
- How to properly skid pipe joints or sections
- How to properly carry pipe joints or sections underneath powerlines
- Work with multiple excavators handling pipe sections
- How to properly carry sections containing sags or sidebends
- How to properly help rig up a sideboom

Excavation Operations

04/20/2026 - 04/24/2026

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 competition of this course, the member will understand trench safety techniques and how to move dirt efficiently.

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 competition of this course, the member will understand trench safety techniques and how to move dirt efficiently.



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Training Course Schedule

Blueprint Reading II for Stationary Engineers

04/20/2026 - 04/24/2026

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 as reference and guidance for the Stationary Engineer. Specific emphasis on owner branding, electrical, HVAC, and plumbing drawings and their use in the industry.

HAZWOPER Train-the-Trainer

04/21/2026 - 04/28/2026

OPEN TO IUOE INSTRUCTORS ONLY

AUTHORIZES INSTRUCTOR TO TEACH

: HAZWOPER – 16, 24 and 40-Hour, 8-Hour Refresher,

8-Hour Supervisor, and other applicable courses.



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Training Course Schedule

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.

Chiller Efficiency

04/23/2026 - 04/25/2026

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.

Basic Controls & Building Automation Systems

04/25/2026 - 04/27/2026

This course has been developed for individuals who want to take the mystery out of the understanding of how DDC controls and Building Automation Systems operate, and also the insight of the various related software packages that drive these systems and how they manipulate these systems.

This seminar has also been designed for people not familiar DDC controls and Building Automation Systems. There will be lectures on basic control strategies, the basics of DDC hardware, and also the basic understanding of building optimization for curtailing the use of energy.

For the experienced people there will be discussions on advanced control technologies dealing with the architecture of Building Automation Systems, discussing how they are installed, wired, and then programmed. Also, there will be main topic lectures on DDC Main Controllers, Stand alone controllers, and their communication protocols.



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Training Course Schedule

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

- Understand the basic DDC and Analog control technology for the HVAC field
- Describe the different types of control actions and when to use them
- Identify Building Automation System main components and where they are used
- Define and select the proper Automation System for different locations
- Ascertain how Building Automation Systems Operate to maintain human comfort
- Define the different types of Analog and Binary inputs and outputs
- Understand the system wiring though various schematic diagrams of installed systems
- Comprehend the different type of operator interfaces and how they communicate
- Define criteria for control strategies such as with closed loop control
- Describe control strategies and how buildings are optimized for peak efficiency
- Understand how a PID loop is written and how to tweak it in for the maximum performance
- Define the different types of programming method

Welding

04/27/2026 - 05/01/2026 - Mig Welding

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

Mig Welding

Pipeline - John Henry Rock Drilling - Kentucky

04/27/2026 - 05/02/2026

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.

Visit <https://iuoetraining.combobulate.io> for a Full Schedule and to Register for Classes

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Training Course Schedule

This course will prepare you for rock drilling operations in the pipeline industry.

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 - Horizontal Directional Drilling Profile Class

04/27/2026 - 05/02/2026

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. Apprentices and Journeyman are encouraged to apply. Members from all industry backgrounds are also encouraged to apply.

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. 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:

- Learn the safe and proper ways to build bore profile
- Learn to operate the leica and micro survey field genius



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Training Course Schedule

- Learn to operate Vermeer projects
- Learn to operate the tera Trak R1
- Build profiles on paper
- Learn different tricks to navigate through different terrain safely while building bore profile

Crane Operations - Intro To Luffing Crawler Crane Operations

04/27/2026 - 05/01/2026

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.

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.

Prerequisites -

Member must be certified/licensed for mobile hydraulic and/or lattice cranes. Certifications/Licenses include OECP, NCCCO, Red Seal, Connecticut or New York State license.

Bulldozer Operations

04/27/2026 - 05/01/2026

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

Topics covered:



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Training Course Schedule

- Working on Slopes
- Slot Dozing
- Backfilling
- Cuts and Fills
- Working with Grade Control

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

Member Assistance Program - It's Time to Get Uncomfortable: Bringing Awareness to Lifestyle Issues and Focusing on the Path to Prevention, Recovery and Support

04/27/2026 - 04/29/2026

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. Peer training on developing local Member Assistance Programs.

Member Assistance Program - It's Time to Get Uncomfortable: Bringing Awareness to Lifestyle Issues and Focusing on the Path to Prevention, Recovery and Support

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Pipeline - "Hands on Pipeline Oiler Training"

04/27/2026 - 05/02/2026

This course is offered to members who desire to work as an oiler on a cross-country pipeline project, pipeline maintenance project, integrity digs, etc. This course will cover all aspects and duties of the oiler. The training will be hands on, including handling, but not limited too - proper use of grease guns, grade rods, sharpshooters, water pumps, staking, etc.

The member may have the opportunity to work alongside operators who are currently operating equipment at the training site.

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 operators who would like to hire out as a pipeline oiler, and **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 check grade.
- How to properly understand pipeline staking, off-set stakes, and lay-out ditch lines.
- Maintenance of equipment and the responsibilities of the oiler position.
- Water pump operation
- Understanding the pipeline terminology and vocabulary words.
- Safety.

Pipeline - Excavator - Excavator Procedures for Existing Live Pipelines

04/27/2026 - 05/09/2026

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.



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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.

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 six 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:

J Journeyman operator skills required

Mechanics Training - Tier 4 Diesel Engine Air Induction and Emissions Control

04/27/2026 - 05/01/2026

This course

will give the student a strong foundation in Diesel engine air induction and emissions control. Upon completion, participants will be able to:



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Training Course Schedule

- Describe the functions, construction, types, styles, and applications of diesel engine intake systems and crankcase ventilation systems.
- Identify and describe the construction, types, styles, and application of turbochargers.
- Describe the functions, construction, and applications of diesel engine exhaust gas recirculation strategies.
- Explain the principles of operation of diesel exhaust emission aftertreatment systems and methods for performing inspection and diagnostic procedures.
- Identify and describe circuit monitoring strategies for out-of-range fault detection and identify and describe principles of fault detection and diagnosis.

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

Mechanics Training - Tier 4 Diesel Engine Air Induction and Emissions Control -

This course will give the member a strong foundation in Diesel engine air induction and emissions control. Upon completion, participants will be able to:

- Describe the functions, construction, types, styles, and applications of diesel engine intake systems and crankcase ventilation systems.
- Identify and describe the construction, types, styles, and application of turbochargers.
- Describe the functions, construction, and applications of diesel engine exhaust gas recirculation strategies.
- Explain the principles of operation of diesel exhaust emission aftertreatment systems and methods for performing inspection and diagnostic procedures.
- Identify and describe circuit monitoring strategies for out-of-range fault detection and identify and describe principles of fault detection and diagnosis.

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

Pump Maintenance & Operation

05/01/2026 - 05/04/2026

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.

Basic Controls & Building Automation Systems

05/02/2026 - 05/04/2026

This course has been developed for individuals who want to take the mystery out of the understanding of how DDC controls and Building Automation Systems operate, and also the insight of the various related software packages that drive these systems and how they manipulate these systems.

This seminar has also been designed for people not familiar DDC controls and Building Automation Systems. There will be lectures on basic control strategies, the basics of DDC hardware, and also the basic understanding of building optimization for curtailing the use of energy.

For the experienced people there will be discussions on advanced control technologies dealing with the architecture of Building Automation Systems, discussing how they are installed, wired, and then programmed. Also, there will be main topic lectures on DDC Main Controllers, Stand alone controllers, and their communication protocols.

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

- Understand the basic DDC and Analog control technology for the HVAC field
- Describe the different types of control actions and when to use them
- Identify Building Automation System main components and where they are used
- Define and select the proper Automation System for different locations



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Training Course Schedule

- Ascertain how Building Automation Systems Operate to maintain human comfort
- Define the different types of Analog and Binary inputs and outputs
- Understand the system wiring though various schematic diagrams of installed systems
- Comprehend the different type of operator interfaces and how they communicate
- Define criteria for control strategies such as with closed loop control
- Describe control strategies and how buildings are optimized for peak efficiency
- Understand how a PID loop is written and how to tweak it in for the maximum performance
- Define the different types of programming method

Automatic Transfer Switch (ATS) for Generators

05/02/2026 - 05/04/2026

The focus of this course is on Automatic Transfer Switches & Emergency Standby Generator and how they may be applied in a variety of settings and industrial sectors. Standby generators are used primarily to provide backup power if utility power from the utility electrical distribution system is lost.

This course will discuss the operation of Automatic Transfer Switches & Generators, their application, how they are integrated into the overall electrical system, auxiliary supporting equipment and generator package maintenance. This course will cover many practical examples and will be interactive for students to gain a broad overall understanding of standby generators.

At the completion of this course, students will be able to perform startup, commissioning and maintenance activities on automatic transfer switches and controllers related to generators. Students will learn about the transfer switch equipment that is currently being used in today's industry. Hands-on activity will comprise at least half of the time spent in training activities.

Pipeline - Sideboom - Specific Task Sideboom Training

05/04/2026 - 05/09/2026

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.

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.

Prerequisites:

Prior participation in a 3 week Intermediate Sideboom class

Pipeline - Excavator - Intro to Pipeline Excavator

05/04/2026 - 05/09/2026

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.

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



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Training Course Schedule

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 - Intro to Pipeline Angle Dozer

05/04/2026 - 05/09/2026

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 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



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Training Course Schedule

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.
- Understanding the pipeline terminology and vocabulary words.
- Safety.

Pipeline - HDD - Intro to Horizontal Directional Drilling

05/04/2026 - 05/09/2026

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



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Training Course Schedule

- The basic functions of the drill will be covered
- Safety
- Vocabulary

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

Pipeline - Sideboom - Intro to Pipeline Sideboom

05/04/2026 - 05/09/2026

Description:

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 8 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.

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 8 students.

Visit <https://iuoetraining.combobulate.io> for a Full Schedule and to Register for Classes

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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

Crane Operations - Intro to Tower Crane

05/04/2026 - 05/08/2026

Introduction to Tower Crane Operations

(Level 1) - This course is for students with previous crane experience. The course will introduce students to three types of tower cranes: Hammerhead tower cranes, luffing boom tower cranes and self-erecting tower cranes. This course will cover cab controls and operating procedures. A major portion of the class will be hands on exercises teaching load control and operational dynamics.

- Prerequisites for Level 1 - Must have previous crane operating experience.

Introduction to Tower Crane Operations

(Level 1) - This course is for students with previous crane experience. The course will introduce students to three types of tower cranes: Hammerhead tower cranes, luffing boom tower cranes and self-erecting tower cranes. This course will cover cab controls and operating procedures. A major portion of the class will be hands on exercises teaching load control and operational dynamics.



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Training Course Schedule

- Prerequisites for Level 1 - Must have previous crane operating experience.

Cooling Tower Operation & Maintenance

05/04/2026 - 05/05/2026

This seminar is focused on the care of evaporative cooling equipment. The course provides useful information about how to operate equipment for optimal performance and reliability. Students will learn the design of cooling towers. It covers water quality, water flow balance, water quantity, fill condition, fan systems, and overall maintenance.

Generator Maintenance & Operation

05/05/2026 - 05/08/2026

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.

Pump Maintenance & Operation

05/05/2026 - 05/08/2026

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.



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Training Course Schedule

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.

Pipeline - Horizontal Directional Drilling Maintenance & Repair

05/11/2026 - 05/16/2026

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.

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



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Training Course Schedule

Pipeline - Sideboom - Specific Task Sideboom Training

05/11/2026 - 05/16/2026

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.

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.

Prerequisites:

Prior participation in a 3 week Intermediate Sideboom class

Pipeline - Excavator - Specific Task Excavator Training

05/11/2026 - 05/16/2026

This class will be considered open training for members who have been past attendees of the 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.

This class will be considered open training for members who have been past attendees of the 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.

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Training Course Schedule

There will be an instructor available at all times.

Prerequisites:

Prior attendance in an Intermediate Excavator class

Pipeline - Angle Dozer - Specific Task Angle Dozer Training

05/11/2026 - 05/16/2026

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.

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.

Prerequisites:

Prior attendance to an Intermediate Angle Dozer class.

Pipeline - Excavator - "Pipe joints/Pipe sections" Handling Procedures for

05/11/2026 - 05/16/2026

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.

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.



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Training Course Schedule

During the class, the operator will be challenged with different tasks utilizing pipe joints and sections.

- carrying single joints and/or sections
- How to properly set pipe into the clamps
- How to properly skid pipe joints or sections
- How to properly carry pipe joints or sections underneath powerlines
- Work with multiple excavators handling pipe sections
- How to properly carry sections containing sags or sidebends
- How to properly help rig up a sideboom

High Pressure Boiler Operations

05/12/2026 - 05/16/2026

High Pressure Boilers course will help to assist in preparing the Stationary Engineer for the proper operation of High-Pressure boilers and will also help with preparing for the facility operating engineer licensing. This course provides a comprehensive overview of the safe and efficient operation of high-pressure steam boilers and related equipment. The latest combustion control technology, as well as EPA regulations and their implications, are covered in this course. The course is divided into sections to aid comprehension of key concepts:

- Steam Boilers
- Boiler Systems
- Steam Boiler Fittings
- Steam Systems
- Feedwater Systems
- Water Treatment
- Combustion Equipment
- Fuels and Combustion
- Combustion and Boiler Controls
- Draft Systems

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Training Course Schedule

- Instrumentation and Control Systems
- Steam Boiler Operation
- Licensing

Chief Engineer Course

05/12/2026 - 05/16/2026

This Seminar is designed for chief engineers or engineers training to make the transition to chief or lead engineer. This seminar will provide the student the necessary administrative and personnel skills to handle the day-to-day leadership challenges associated with this position.

The ten sections are:

- Recommended Skills levels
- Planning and Time Management
- Budget Preparation
- Computer Applications
- Record Keeping
- Benefits of an Internal Work Force
- Reports and Presentations
- Health and Safety
- Human Relations
- Energy Conservation.

The Chief Engineers class has been updated as a

Blended Learning Environment,

in which traditional face-to-face instruction is also supplemented with specific computer assisted Learning

. The purpose is to take advantage of the best features of both face-to-face and computer assisted learning in the same classroom setting. During class you will be given a set of credentials and guided how to log onto the platform. Once logged in, you will be instructed on how to use and navigate the system. Additionally, while performing some of the class exercises, you will be using various types of software for letter writing, email, budgets, presentations etc. With all that said, it would be advantageous if each member would bring their own laptop computer to class, being that some of these exercises will remain on the computer for the student's future reference. If you cannot bring your own laptop/computer or you do not own a laptop/computer we can provide a computer for you to use during the class.



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Training Course Schedule

OSHA 510 Safety & Health Standards for the Construction Industry

05/12/2026 - 05/15/2026

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.

Boiler System Efficiency

05/15/2026 - 05/17/2026

The course is designed to assist in the education and development for the individual who has the responsibilities for the day-to-day operation and maintenance of their boiler and the ancillary equipment. Individual will gain the knowledge and understanding of how to properly operate the equipment safely and more efficiently. This course will provide the proper sequence of operation or timing that will assist in the troubleshooting area and reduce downtime and increase reliability. The program included plant tours to reinforce lessons learned.

OSHA 500 Trainer Course Construction Industry

05/16/2026 - 05/19/2026

OPEN TO IUOE INSTRUCTORS ONLY

AUTHORIZES INSTRUCTOR TO TEACH:

10- and 30-Hour Construction Industry Outreach courses.

Prerequisites:

Students must successfully complete the OSHA #510

Occupational Safety and Health Standards for Construction



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Training Course Schedule

and have five (5) years of safety and health work experience in the construction industry. A degree in occupational safety and health, a Certified Safety Professional (CSP) or a Certified Industrial Hygienist (CIH) designation may be substituted for two (2) years of work related experience. Students should obtain guidance on whether they meet this requirement from the OSHA Training Institute Education Center where they intend to receive the training. Authorized OSHA Outreach Training Program trainers are required to attend OSHA #502

Update for Construction Industry Outreach Trainers
at least once every four (4) years to maintain their trainer status.

NOTE:

Student must complete a Prerequisite Form. To obtain this form and completion instructions, please contact:

tcrum@iuoe.org

Advanced Controls & Building Automation Systems

05/16/2026 - 05/18/2026

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



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Training Course Schedule

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 they are 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
- Program various types 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

Electrical Troubleshooting & Variable Frequency Drive Operations

05/29/2026 - 06/01/2026

This four-day seminar is designed to provide the knowledge and skills required when selecting, installing, testing and troubleshooting electrical systems the motors they control, and the control circuits connected to them. In this hands-on seminar, students will build, program and test VFD, motors and control circuits.

Test instruments covered and used include digital multi-meters (DMMs), current clamps and meter attachments. Topics, circuits, and equipment covered include:

- Test instrument terminology, symbols and measurement functions for each type of instrument used is covered to learn what test instruments should and should not be used circuits.



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Training Course Schedule

- Learn the safe and correct way to take electrical measurements and what the measurements actually mean.
- Learn where and how to use special meter functions like MIN/MAX, RELATIVE, LoZ, Peak, kVA, kW, and PF measurement functions.
- Learn how to test for grounding problems.
- Understanding VFD and motor nameplate data.
- Learn how to test and wire any three-phase motor without using the motors wiring diagram and what the expected readings should be before power is applied and how to troubleshoot the motor after power is applied.
- Circuits built include using, magnetic motor starters, mechanical and solid-state switches, such as, selector switches, proximity switches, photoelectric switches, analog inputs (photovoltaic and potentiometers), and other commonly used electrical devices.
- Connect, program, and test VFDs (variable frequency drives).
- Take power measurements (P.F., kVA, kW, and harmonic) to understand power quality problems.

Indoor Air Quality

05/29/2026 - 05/31/2026

This course covers the vast issues of indoor air quality in commercial buildings and how to handle the everyday problems that come up. It explores how to prevent and solve IAQ problems effectively, how to work with building management and owners in developing an IAQ Maintenance and tracking program and explains the latest IAQ concerns such as airborne contagions.

Electrical Systems 1

06/01/2026 - 06/05/2026

Electricity is a fundamental part of most tasks that the stationary engineer performs. Whether one works with motors, chillers, boilers, air handlers, lighting, or controls, electricity plays a part of each.

This course equips the stationary engineer with knowledge of electrical principals, electrical safety, how to perform electrical calculations, and gives an understanding of both AC and DC electrical components. Students have the opportunity to also perform hands on activities to reinforce the coursework.

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Training Course Schedule

This course is a suggested pre-requisite for Electrical Systems 2 course.

Solar Panel Installation Maintenance & Troubleshooting

06/05/2026 - 06/08/2026

This course work will include information on site location, system sizing, mounting options, system components, configurations, mechanical, electrical integration and code requirements. Topics also include Solar Radiation, System Components, Cells, Modules, and Arrays, Batteries, Inverters, System Sizing, Mechanical Integration, Electrical Integration, Utility Interconnection, Permitting and Inspection, Commissioning, Maintenance, and Troubleshooting. Students will receive hands on training in installation and configuration of actual solar voltaic systems.

Advanced Controls & Building Automation Systems

06/06/2026 - 06/08/2026

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.



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Training Course Schedule

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 they are 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
- Program various types 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

OSHA 503 Update for General Industry Outreach Trainers

06/08/2026 - 06/10/2026

OPEN TO IUOE INSTRUCTORS ONLY

RE-AUTHORIZES INSTRUCTOR TO TEACH:

10- and 30-Hour General Industry Outreach courses.

This course is designed for Outreach Training Program trainers who have completed course #501 Trainer Course in Occupational Safety and Health Standards for General Industry and who are authorized trainers in the OSHA Outreach Training Program. The course provides the required update on OSHA General Industry Standards, policies, and regulations as they continue to teach the 10- and 30-hour General Industry Outreach Training Program classes.



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Training Course Schedule

HVAC Systems 2

06/09/2026 - 06/13/2026

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

Certified Pool Operator

06/09/2026 - 06/11/2026

This course will prepare the student for the Pool & Hot Tub Alliance (PHTA) (formerly National Swimming Pool Foundation (NSPF) certified pool operator exam. The test will be administered by an authorized PHTA instructor on the last day of the course. The certification is valid for five years from date of course completion. There is a cost to the student of \$45.00 for the certification.



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Training Course Schedule

Electrical Troubleshooting & Variable Frequency Drive Operations

06/11/2026 - 06/14/2026

This four-day seminar is designed to provide the knowledge and skills required when selecting, installing, testing and troubleshooting electrical systems the motors they control, and the control circuits connected to them. In this hands-on seminar, students will build, program and test VFD, motors and control circuits.

Test instruments covered and used include digital multi-meters (DMMs), current clamps and meter attachments. Topics, circuits, and equipment covered include:

- Test instrument terminology, symbols and measurement functions for each type of instrument used is covered to learn what test instruments should and should not be used circuits.
- Learn the safe and correct way to take electrical measurements and what the measurements actually mean.
- Learn where and how to use special meter functions like MIN/MAX, RELATIVE, LoZ, Peak, kVA, kW, and PF measurement functions.
- Learn how to test for grounding problems.
- Understanding VFD and motor nameplate data.
- Learn how to test and wire any three-phase motor without using the motors wiring diagram and what the expected readings should be before power is applied and how to troubleshoot the motor after power is applied.
- Circuits built include using, magnetic motor starters, mechanical and solid-state switches, such as, selector switches, proximity switches, photoelectric switches, analog inputs (photovoltaic and potentiometers), and other commonly used electrical devices.
- Connect, program, and test VFDs (variable frequency drives).
- Take power measurements (P.F., kVA, kW, and harmonic) to understand power quality problems.

Visit <https://iuoetraining.combobulate.io> for a Full Schedule and to Register for Classes

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OSHA 502 Update for Construction

06/11/2026 - 06/13/2026

OPEN TO IUOE INSTRUCTORS ONLY.

RE-AUTHORIZES INSTRUCTOR TO TEACH:

10- and 30-Hour Construction Industry Outreach courses.

This course is for Outreach Training Program trainers who have completed OSHA #500 Trainer Course in Occupational Safety and Health Standards for the Construction Industry and are authorized trainers in the OSHA Outreach Training Program. The course provides the required update on OSHA Construction Standards, policies, and regulations as they continue to teach the 10- and 30-hour Construction Outreach Training Program classes.

Please note that

OSHA has no grace period

. After expiration, a trainer's authorization may only be reinstated by retaking the OSHA #500 course. The OSHA 510 will also be required if attended more than seven years prior. Extensions to the expiration date will not be granted.

Pump Maintenance & Operation

06/15/2026 - 06/18/2026

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.

Rooftop Unit Maintenance & HVAC Troubleshooting

06/15/2026 - 06/18/2026

Light commercial Rooftop units are the topic of this class.. There will be extensive hands-on training for maintenance and service engineers who have had basic air conditioning training.

Students must have the EPA Universal Certification to participate in the practical activities of the course

. The focus will be on identifying various components of RTU's , charging practices , troubleshooting , repair, and maintenance.

Testing & Balancing for Air & Hydronic Systems

06/15/2026 - 06/19/2026

HVAC system efficiency and human comfort are all affected by proper system airflow requirements. Testing, Adjusting, and Balancing (TAB) of an HVAC system is a useful process of measuring and regulating the amount of airflow at each area of the building. Balancing is essential for any HVAC system to perform as per building design and expectations. It is an overall health check for your HVAC system and helps to ensure that you are providing the building occupants with a comfortably conditioned space at the lowest energy cost possible.

A well-balanced system will ensure the right amounts of air are delivered to the right places, at the right temperature, and humidity levels with the least amount of distribution losses. It is important that the air distribution system and duct designs are designed and installed in such a way that the balancing and the measuring of airflow are possible and can be performed accurately.

This course will discuss why balancing an HVAC system is so important, why systems become unbalanced, what the balancing process entails and more. This course will help the student understand the TAB process and interpret the ventilation/balance report information and the process for conducting total system balancing, from start to finish, for basic air systems, hydronic systems, and domestic hot water systems found in commercial buildings. Course topics include document review & preparation for TAB (of air & water systems), site observations, testing for constant & variable air & water system flow rates.

Electrical Systems 2

06/23/2026 - 06/27/2026

This class builds off of Electrical Systems 1 so students should have taken that before this class or have comparable experience and understanding.

In this class, students will be provided a greater understanding of electrical principles and theory including series and parallel circuits and more advanced electric formulas. Students will gain the ability to read electrical prints, replace breakers, and perform troubleshooting using Fluke meters.

This course includes substantial hands-on activities.

HVAC Systems 1

06/23/2026 - 06/27/2026

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.

Chiller Efficiency

06/28/2026 - 06/30/2026

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.