



International Union of Operating Engineers Local 150
Apprenticeship & Skill Improvement Program

2019-2020 Training Schedule and Course Catalog



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International Union of Operating Engineers, Local 150 Apprenticeship and Skill Improvement Program

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Introduction

In this year's Course Catalog, you will find all the instruction that you need to become a truly world-class Operating Engineer right at your fingertips, and free of charge.

The key to being employable and staying at work throughout the year is having a diverse set of skills. No matter what industry you have experience in, you've got the opportunity to learn something new, and to learn it from some of the most skilled instructors in the world.

What we have at our Training Center is very special, and something that we must never take for granted. So many workers would do anything to have the training opportunities you'll find within these pages. This training program is ours, and each year we strengthen it and expand it to help ourselves and each other.

I challenge you to look through this catalog and identify one or two things that you'd like to learn this year, and when weather keeps you home or you are between dispatches, get out and do it. Taking this approach to perfecting your craft will always serve you well. You'll represent yourself well and you'll be an example of what employers can expect when they choose a Local 150 Operating Engineer.

United We Stand, Divided We Fall,



James M. Sweeney

President - Business Manager
IUOE Local 150,

Chairman
IUOE Local 150 Apprenticeship
& Skill Improvement Program

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Course Registration Information

Registration for this fall season will be limited to classes occurring within a 30-day period from the date that you call in to register. So for example; if you call in to register for a class on October 1st, you will only be able to register for classes starting in October through November 1st. This should alleviate a couple of issues at the site, one being the flood of calls that normally take place the first few weeks of registration and second being a reduction in the amount of no-shows that occur later in the season as members start to return to work or forget they signed up for a class three months prior.

ASIP is now offering online registration for a limited number of classes. Classes with prerequisites will not be available for online registration at this time. Please visit www.asiplocal150.org to view our upcoming classes. Once you login, you can click on the “Member Services” link listed in the center of the main page where you will then find the “Classes” link. The classes available for online registration will have a “Register” link next to the number of open spaces in the class. Once signed up, you will receive an email confirmation as long as you have a valid email on file with the Apprenticeship Office. If you do not have an email address on file with the Apprenticeship Office, you will still be registered. If you are not able to attend class once registered, we please ask that you re-visit the site to cancel your registration or call us at 815-722-3201

Training Site Policy and Usage Information

Dress Code

All members using the training site must wear shirts with sleeves (long or short), no tank tops or sleeveless shirts, full length pants (no shorts) and work boots (no tennis shoes or dress shoes).

Personal Protective Equipment

All members training outside of the classroom are required to wear a hard hat, safety vest, and hearing protection. All of these items are available for use at the Training Site. Remember to return safety vests and hard hats at the end of the day.

Equipment Sign Out Shifts

Machines are available for sign out two sessions or shifts per day, morning (7 a.m. – 11 a.m.) or the afternoon (11:30 a.m. – 3:30 p.m.).

All equipment must be signed in and out before and after each shift in the equipment sign out room located in the corner of the cafeteria.

Equipment Reservations

Members may reserve equipment up to 30 days in advance.

You may reserve a machine for up to three shifts per week (12 total hours per week), once the three shifts have been met, you must reserve a different machine for the remainder of that week.

Reservations are held until 7:05 a.m. for the morning shift and 11:35 a.m. for the afternoon shift, these machines will be released for sign out after these times.

If you have a machine reserved and are running late, please call the Training Site at (815)-722-3201 and we will hold your reservation for up to 30 minutes.

If you have a reservation and will not be able to make it to the site that day, we ask you make an effort to call the Training Site and cancel your reservation, so another member can make use of that machine.

Equipment Usage

Pre-operation

- Check all fluids and top them off if necessary. If you have any questions about proper fluids or levels, please ask an instructor.
- Grease all grease fittings, being sure not to over-grease.

Operation:

- Please be careful climbing in and out of ditches.
- Be sure to back fill and level off your work area prior to exiting the field or arena at the end of your shift.
- Be sure to fuel the machine after operation unless otherwise told.
- If operating a tracked machine, please clean the tracks at the end of your shift.
- Please clean all garbage from the cab at the end of your shift.

Classroom Policies

Please utilize the same dress code as stated earlier; you may be required to leave the classroom for the field for hands-on training or demonstrations.

Attendance will be taken; you will need to sign the attendance sheet next to your name.

Snacks, coffee, soda and water may be brought into the classroom, please refrain from bringing breakfast and lunch into the classroom (use the cafeteria). Please clean up after yourself if you bring these items into the classroom.

Classroom Walk-In Policies

In order to maintain the best possible classroom and hands-on experience, class size has been limited. Once a scheduled class has been filled during registration, a waiting list will be created for that class. Those who wish may be put on this list. This waiting list will be used to fill slots opened by cancellations and no-shows. On the first day of class, attendance will be taken. If there are any openings for the class, they will first be filled with those present and on a waiting list, then by those waiting and not on a list.

Members on the waiting list will be listed in order by their sign up date and time.

Hotel Usage Policies

All members who live 30 miles or more from the Training Site and are using the site for two full consecutive days (16 hours) or more are eligible to utilize a hotel arranged by us at our expense for the nights in between training days.

Upon checking into the hotel, you will be asked for a credit card. This is required by the hotel to be used for the coverage of incidental charges (telephone, damage, etc.). You will not be allowed to check in without one.

If you utilize a hotel and do not fulfill the two consecutive days (16 hours) of training, the full hotel bill will be billed to you.

Supervised Training

The purpose of this training is to give the applicant the ability to gain hands-on experience through training with the supervisor.

It is the responsibility of the supervisor to stay with the applicant during the pre-operation checks, and advise on safety and operating techniques of the machine. This training is limited to skid steers, rubber tired loaders, small dozers and combination backhoes.

Equipment sign out is on a first come, first serve basis once all Journeyworkers and Apprentices have signed out. If you will be training out in the dirt field, you will need to see an instructor who will assign you a vehicle and a place in the field to train.

Cafeteria

The cafeteria is open Monday through Saturday from 6:30 a.m. – 12:30 p.m.

Breakfasts cost \$5.00 or less and lunches range from \$5.00 - \$7.00. There are also numerous vending machines with beverages, sandwiches and snacks. Microwaves are also available for members' use.

Coffee is always available in the cafeteria at no charge.

Speed Limit

As a reminder, the speed limit on South Arsenal Road is 45 mph. Please adhere to this as it is enforced on a daily basis.

IUOE International Training Site Travel Policies

Class/Travel Registration

All class registration and travel will require prior approval of the ASIP POC and/or JATC Chairman.

Request must be submitted to the International's Travel coordinator through the ITRS website. (iuoe-itr.org)
All travel reservations will be booked through the I.U.O.E travel coordinator.

All flights will be booked at the most economical price for the fund and at the discretion of the I.U.O.E Travel Coordinator

Rental Cars, Personal Vehicles & Airport Shuttle

Rental Cars are not authorized for any travel for training at the I.T.C.C.

Personal vehicle use for travel is not authorized to the I.T.C.C.

Parking and Taxi (UBER/LYFT/RIDE SHARING) are not authorized and will not be reimbursed

Travel to and from home airport is not reimbursed

Shuttle service is provided at I.T.C.C

Flights, Baggage & Meals

Flight/seat (early bird check-in) upgrades will not be reimbursed.

Baggage fees will be reimbursed only on flights that do not include baggage in the air fare with original receipt for payment there will be no exceptions. Extra bag and overweight baggage fees will not be reimbursed

Flights to attend training at I.T.C.C. are provided by the NTF (National Training Fund). Misappropriation of these funds are grounds for charges being filed against members of the I.U.O.E. Any member misappropriating funds will be directed to meet with the advisory board of their home district for the possibility of charges being leveled against them. (constitution Article XVI sec 3 and XXIV subsection 7 sec (e); local bylaws Article IX sec 6 (a)(c).

Meal expenses will not be reimbursed, all meals are provided by I.T.C.C.



Member Education

Labor Education

This program of study critically assesses the fundamental historical events, decisions, and developments which have shaped America's modern working class. The course contends that labor history is the conjunction of two dynamic struggles: the courageous efforts of individual working men

and women to win dignity and security from their employers, and the broader struggle of all working people to provide food, shelter, education, personal fulfillment and a sense of community for themselves and their families. The history of organized labor is about emancipating all people from oppression. Members will learn about the causes of these struggles, what forces were aligned against the working class, what techniques workers used to fight for justice and why these battles are important to understanding the role of organized labor in American society. Note: This class is not a replacement for the "COMET & Labor Studies" class put on in Countryside.

| Level | Date | Start Time | Location |
|-------|---------------|------------------------|------------|
| 1 | Dec. 7, 2019 | 11:30 A.M. - 3:30 P.M. | Auditorium |
| 2 | Jan. 4, 2020 | 11:30 A.M. - 3:30 P.M. | Auditorium |
| 3 | Jan. 11, 2020 | 11:30 A.M. - 3:30 P.M. | Auditorium |
| 1 | Mar. 7, 2020 | 11:30 A.M. - 3:30 P.M. | Auditorium |
| 2 | Mar. 21, 2020 | 11:30 A.M. - 3:30 P.M. | Auditorium |
| 3 | Apr. 11, 2020 | 11:30 A.M. - 3:30 P.M. | Auditorium |

Know Your Union

Know Your Union is a four-hour course designed to familiarize new and existing members with various aspects of Local 150, including organizational history, governance, hiring hall, training, benefits, and political activism. Note: Additional classes will be scheduled throughout the

year. Please visit: www.local150.org or www.asiplocal150.org for more information and class dates. Contact Barb Farr at (708) 482-8800 or email BFarr@local150.org to reserve your spot at these classes.

| Date | Start Time | Location |
|---------------|----------------|-----------------|
| Nov. 9, 2019 | 8:00 A.M.-Noon | District 1 Hall |
| Jan. 11, 2020 | 8:00 A.M.-Noon | District 1 Hall |
| Mar. 28, 2020 | 8:00 A.M.-Noon | District 1 Hall |
| July 11, 2020 | 8:00 A.M.-Noon | District 1 Hall |

COMET 1

COMET stands for Construction Organizing Membership Education Training, and helps members understand why organizing is central to maintaining bargaining strength. It generates membership support and encourages rank and file participation in the Local's organizing efforts. Note: Additional classes will be scheduled throughout the year. Please visit: www.local150.org or www.asiplocal150.org for more information and class dates. Contact Barb Farr at (708) 482-8800 or BFarr@local150.org to reserve your spot at these classes.

| Date | Start Time | Location |
|---------------|-----------------|-----------------|
| Nov. 16, 2019 | 12:00-4:00 P.M. | District 1 Hall |
| Feb. 8, 2020 | 12:00-4:00 P.M. | District 1 Hall |
| May 9, 2020 | 12:00-4:00 P.M. | District 1 Hall |
| Aug. 22, 2020 | 12:00-4:00 P.M. | District 1 Hall |

Labor Studies

Labor Studies is a thorough review of the history of the American Labor Movement, including its successes and failures in the past and the challenges that lie in the future. Note: Additional classes will be scheduled throughout the year. Please visit: www.local150.org or www.asiplocal150.org for more information and class dates. To reserve your place at these classes, contact Barb Farr at (708) 482-8800 or email BFarr@local150.org.

| Date | Start Time | Location |
|---------------|----------------------|-----------------|
| Nov. 16, 2019 | 8:00 A.M.-12:00 P.M. | District 1 Hall |
| Feb. 8, 2020 | 8:00 A.M.-12:00 P.M. | District 1 Hall |
| May 9, 2020 | 8:00 A.M.-12:00 P.M. | District 1 Hall |
| Aug. 22, 2020 | 8:00 A.M.-12:00 P.M. | District 1 Hall |

First Aid

Standard First Aid, CPR, AED

In this 8-hour class you will learn how to respond to common first aid emergencies including: burns, cuts, head, neck injuries, back injuries and more. In the CPR and AED portion, you will learn how to respond to cardiac and breathing emergencies in adults, including the use of an automated external defibrillator (AED). There is an emphasis on hands-on learning in this course and after successfully completing it, members will receive a certification card that is valid for two years.

| Date | Start Time | Location |
|---------------|------------|----------|
| Nov. 9, 2019 | 7:00 A.M. | 2129 |
| Nov. 16, 2019 | 7:00 A.M. | 2129 |
| Nov. 18, 2019 | 7:00 A.M. | 2129 |
| Dec. 6, 2019 | 7:00 A.M. | 2129 |
| Dec. 14, 2019 | 7:00 A.M. | 2129 |
| Jan. 6, 2020 | 7:00 A.M. | 2129 |
| Jan. 24, 2020 | 7:00 A.M. | 2129 |
| Feb. 29, 2020 | 7:00 A.M. | 2129 |
| Mar. 16, 2020 | 7:00 A.M. | 2129 |

Safety Instruction

OSHA 10-Hour Safety Awareness

This course will help members recognize and control a variety of safety and health hazards frequently found in today's workplace. Contractors are recognizing the value of this training and some job sites may require this for entry. This class is a prerequisite to the OSHA 30 and Disaster Site Worker classes. Please check the start time for the class that you're interested in taking. The classes will either run 8:00am - 2:30pm for two consecutive days or 6:00pm - 10:00pm the first night then 7:00am - 3:30pm the next day. **Note: 40 member max per class.**

| Date | Start Time | Location |
|------------------|------------|-----------------|
| Nov. 5-6, 2019 | 8:00 A.M. | 1051 |
| Dec. 6-7, 2019 | 6:00 P.M. | District 8 (IA) |
| Dec. 18-19, 2019 | 8:00 A.M. | 1051 |
| Dec. 30-31, 2019 | 8:00 A.M. | 1051 |
| Jan 2-3, 2020 | 8:00 A.M. | District 8 (IL) |
| Jan. 13-14, 2020 | 8:00 A.M. | 1051 |
| Jan. 16-17, 2020 | 8:00 A.M. | District 3 |
| Jan. 29-30, 2020 | 8:00 A.M. | 1051 |
| Feb. 6-7, 2020 | 8:00 A.M. | District 4 |
| Feb. 13-14, 2020 | 8:00 A.M. | District 6 |
| Feb. 21-22, 2020 | 6:00 P.M. | District 8 (IL) |
| Mar. 13-14, 2020 | 6:00 P.M. | 1051 |
| Mar. 19-20, 2020 | 8:00 A.M. | District 5 |
| Mar. 26-27, 2020 | 8:00 A.M. | District 7 |
| Apr. 2-3, 2020 | 8:00 A.M. | 1051 |
| Apr. 10-11, 2020 | 6:00 P.M. | 1051 |
| Apr. 24-25, 2020 | 6:00 P.M. | District 8 (IL) |

OSHA 30-Hour Safety Awareness

The OSHA 30-Hour course is a five day course with the intent to assist employers in training and introduce operators to the basic practices of identifying, reducing, eliminating, and reporting hazards associated with their work. There will be formal classroom instruction, quizzes, short presentations as well as hands-on exercises addressing hazard recognition. Satisfactory completion of the course requires full attendance and a passing score on the final exam. Participants are required to have a valid OSHA 10-Hour Construction card to enroll in class and must present card to instructor on first day of class.

| Date | Start Time | Location |
|---------------------|------------|----------|
| Nov. 18-22, 2019 | 7:00 A.M. | 1051 |
| Jan. 6-10, 2020 | 7:00 A.M. | 1051 |
| Mar. 23-27, 2020 | 7:00 A.M. | 1051 |
| Apr. 27-May 1, 2020 | 7:00 A.M. | 1051 |

40-Hour Hazardous Material Awareness

This course prepares operators to work safely and effectively with hazardous materials on and off hazardous waste sites. The 40-hour Hazardous Materials Awareness and Certification Course is required of everyone working on a Haz-Mat job. Attendance is required for all 40 hours of training. Members must be clean-shaven to participate in respirator training. Members who successfully complete this course will be notified and scheduled every year for the mandatory 8-hour refresher. **Note: 18 member max per class.**

| Date | Start Time | Location |
|------------------|------------|----------|
| Dec. 9-13, 2019 | 7:00 A.M. | 1051 |
| Jan. 20-24, 2020 | 7:00 A.M. | 1051 |
| Feb. 17-21, 2020 | 7:00 A.M. | 1051 |
| Feb. 24-28, 2020 | 7:00 A.M. | 1051 |
| Mar. 16-20, 2020 | 7:00 A.M. | 1051 |
| Apr. 6-10, 2020 | 7:00 A.M. | 1051 |

8-Hour Hazardous Material Refresher

OSHA regulations require that graduates of the 40-hour Haz-Mat classes attend an annual 8-hour Haz-Mat refresher. Haz-Mat refresher training is scheduled on Saturdays and is held at the Training Site and at several of the District Halls. Local 150 Haz-Mat graduates are notified by mail of their scheduled refresher class a few weeks before their certificate expiration date. Haz-Mat refresher classes review the key components of the Haz-Mat 40-hour training, provide the opportunity to discuss various aspects of the Haz-Mat work in our jurisdiction, and examine new and developing technologies in the Haz-Mat workplace.

| Date | Start Time | Location |
|---------------|------------|------------|
| Dec. 14, 2019 | 7:00 A.M. | Auditorium |
| Jan. 4, 2020 | 7:00 A.M. | District 8 |
| Jan. 18, 2020 | 7:00 A.M. | District 3 |
| Jan. 25, 2020 | 7:00 A.M. | District 2 |
| Feb. 1, 2020 | 7:00 A.M. | District 1 |
| Feb. 8, 2020 | 7:00 A.M. | District 4 |
| Feb. 15, 2020 | 7:00 A.M. | District 6 |
| Mar. 21, 2020 | 7:00 A.M. | District 5 |
| Mar. 28, 2020 | 7:00 A.M. | District 7 |
| Apr. 4, 2020 | 7:00 A.M. | Auditorium |

OSHA Disaster Site Worker

This course is intended for Disaster Site Workers who provide skilled support services (e.g., utility, demolition, debris removal, or heavy equipment operation) or site clean-up services in response to a disaster. Because this course does not cover

in detail the safety and health hazards that occur on a daily basis on a normal construction site, completion of the OSHA Construction Outreach Training Course (10-hour) is a prerequisite. Note: Successful completion of this course meets the requirements of the HAZWOPER annual refresher.

| Date | Start Time | Location |
|------------------|------------|----------|
| Jan. 27-28, 2020 | 7:00 A.M. | 1051 |
| Apr. 21-22, 2020 | 7:00 A.M. | 1051 |

Confined Space Awareness

This 2-day course involves both classroom instruction and hands on training. During the classroom portion, instructors will cover topics associated with both non-permit and permit required confined spaces. Members will also receive instruction on OSHA standards such as Control of Hazardous Energy, Air Monitoring and Fall Protection. During hands on training, members will safely enter multiple confined spaces using proper procedures to carry out the necessary work to be performed. Class size will be limited to 15 members. There are no prerequisites required to take this class.

| Date | Start Time | Location |
|----------------|------------|----------|
| Feb. 3-4, 2020 | 7:00 A.M. | 1051 |

Mobile Elevated Work Platform

During this 2-day course, members will learn OSHA and ANSI standards related to the safe operation of Mobile Elevated Work Platforms (MEWP). Some examples of a MEWP are truck mounted boom lifts, scissor lifts and bucket trucks.

Upon successful completion of the classroom portion, members will be tested on 3 different classes of MEWP's. After fulfilling all requirements, members will receive an accredited Powered Access License (PAL) card from the International Powered Access Federation that is valid for 5 years. Class size will be limited to 12 members. There are no pre-requisites required to take this class. **Note:** Members looking to renew their PAL license should call and make an appointment at the training site before their license expires.

| Date | Start Time | Location |
|------------------|------------|----------|
| Dec. 2-3, 2019 | 7:00 A.M. | 1051 |
| Feb. 10-11, 2020 | 7:00 A.M. | 1141 |

OSHA Powered Industrial Truck (PIT)

OSHA regulations require that all powered industrial truck operators are trained, evaluated and certified before they operate a forklift. This two-part course covers training requirements. The first part involves classroom instruction in the form of lecture, discussion, videos and a multiple choice test. Members must achieve a passing score of 80 percent or higher. The second part of the training requirement is applied during a practical exercise which involves testing on an electric forklift, two LPG industrial forklifts and a rough terrain forklift. This training allows the members to obtain four out of the seven classes of industrial powered trucks on their training card. The member will be evaluated and certified by the employer in accordance with the OSHA standard.

| Date | Start Time | Location |
|---------------|------------|----------|
| Oct. 16, 2019 | 11:30 A.M. | 1051 |
| Nov. 20 2019 | 11:30 A.M. | 1051 |
| Dec. 4, 2019 | 6:00 P.M. | 1051 |
| Dec. 19, 2019 | 6:00 P.M. | 1051 |
| Jan. 15, 2020 | 11:30 A.M. | 1051 |
| Jan. 29, 2020 | 6:00 P.M. | 1051 |
| Feb. 28, 2020 | 6:00 P.M. | 1051 |

BROKK - Level 1

This 16-hour course will give a basic understanding of machine set-up, maintenance, operating control functions, power cable tending, use of attachments and maneuvering techniques that the operator will need for remote HAZWOPER and demolition work environments. Designed for high performance demolition at a compact scale. OSHA requires Employers to seek out and incorporate new technologies on hazmat jobsites. This machine uses remote control technology to reduce employee exposures to hazardous job conditions. Upon completion of this course, members will obtain the ability to schedule individual training with the BROKK remote excavator. Note: Individual BROKK training after completion of the Level 1 course by appointment only. Call equipment checkout to make a reservation.

| Date | Start Time | Location |
|------------------|------------|----------|
| Nov. 25-26, 2019 | 7:00 A.M. | 2128 |
| Dec. 16-17, 2019 | 7:00 A.M. | 2128 |

Mine Safety

MSHA Surface New Miner

The MSHA part 48 B Training plan that Local 150 ASIP has filed with MSHA covers surface metal non-metal mining and is accepted by MSHA to cover part 46 training since part 48 B training is a higher standard than part 46. A requirement of the mine training plan is that any new employee designated as a non-experienced miner must receive 24 hours of new miner training to work at a mine site. Training must include instruction in safety and health subjects that are relevant to mining operations. The company you go to work for must supply you with all site specific and task training under part 46 or part 48 B before you start work. All experienced miners must receive 8 hours of refresher training each year to continue working at a mine site.

Note: 18 member max per class.

| Date | Start Time | Location |
|------------------|------------|----------|
| Dec. 9-12, 2019 | 7:00 A.M. | 2128 |
| Jan. 13-16, 2020 | 7:00 A.M. | 2128 |
| Jan. 27-30, 2020 | 7:00 A.M. | 2128 |
| Feb. 24-27, 2020 | 7:00 A.M. | 2128 |
| Mar. 16-19, 2020 | 7:00 A.M. | 2128 |



MSHA Surface Refresher

The MSHA Part 48 B training plan Local 150 ASIP has filed with MSHA covers surface metal non-metal mining and is accepted by MSHA to cover part 46 training since Part 48 B training is a higher standard than Part 46. A requirement of the mine training plan is that any employee designated as an experienced miner must receive 8 hours of refresher training each year to work at a mine site. Refresher training must include instruction on the following: safety and health subjects that are relevant to mining operations. You must have proof of prior MSHA training to attend this class. A 24-hour New Miner certificate, or a refresher certificate will be accepted as proof that you are a experienced miner. The company that you go to work for must supply you with all site specific and task training under part 46 or part 48 B before you start work.

| Date | Start Time | Location |
|---------------|------------|------------|
| Dec. 7, 2019 | 7:00 A.M. | 2110 |
| Dec. 21, 2019 | 7:00 A.M. | 2110 |
| Jan. 3, 2020 | 7:00 A.M. | District 5 |
| Jan. 4, 2020 | 7:00 A.M. | District 5 |
| Jan. 18, 2020 | 7:00 A.M. | District 5 |
| Feb. 8, 2020 | 7:00 A.M. | 2110 |
| Feb. 14, 2020 | 7:00 A.M. | District 4 |
| Feb. 15, 2020 | 7:00 A.M. | District 4 |
| Feb. 29, 2020 | 7:00 A.M. | 2110 |
| Mar. 14, 2020 | 7:00 A.M. | District 7 |
| Apr. 4, 2020 | 7:00 A.M. | 2110 |
| Apr. 25, 2020 | 7:00 A.M. | 2110 |

MSHA Underground New Miner

The MSHA Part 48 A Underground training plan Local 150 ASIP has filed with MSHA covers underground metal and non-metal mining and has been accepted by MSHA to train underground new miners. A requirement of the mine training plan is that any new employee designated as a non-experienced miner must receive 40 hours of underground new miner training to work at an underground mine site, 8 hours of which must be at an underground mine. The final 8 hours of this class will be underground at a local underground limestone mine. After taking this class and having 12 months experience, you will be considered an experienced underground miner by MSHA. The company that you go to work for must supply you with all site specific and task training before you start work. All experienced underground miners must receive 8 hours of underground refresher training each year to continue working at an underground mine site. *Prerequisites:* MSHA Surface New Miner or an up to date MSHA Surface Refresher. **Note: 15 member max per class.**

| Date | Start Time | Location |
|------------------|------------|----------|
| Mar. 23-27, 2020 | 7:00 A.M. | 2128 |
| Apr. 13-17, 2020 | 7:00 A.M. | 2128 |

MSHA Underground Refresher

The MSHA Part 48 A Underground training plan that Local 150 ASIP has filed with MSHA covers underground metal and non-metal mining and has been accepted by MSHA to train underground new miners. A requirement of the mine training plan is that any employee designated as an experienced underground miner must receive 8 hours of underground refresher training each year to work at an underground mine site. Refresher training must include instruction on the safety and health subjects that are relevant to mining operations. You must have proof of prior MSHA training to attend this class. A 40-hour underground new miner certificate or an underground refresher certificate will be accepted as proof you are an experienced miner. The company you go to work for must supply you with all site specific and task training before you start work.

| Date | Start Time | Location |
|---------------|------------|----------|
| Jan. 11, 2020 | 7:00 A.M. | 2110 |
| Mar. 21, 2020 | 7:00 A.M. | 2110 |

Pipeline Industry



Introduction to Pipeline and Gas Distribution Systems

This 40-hour class is intended to allow members to develop the skills necessary for employment in the pipeline and gas distribution industries. Operator Qualification training will be integrated into this class and testing will be provided for those individuals who seek qualification. This course will be taught by experienced pipeline operators and will include hands on field exercises which will allow our members to become more employable in these industries. **Note: 15 member max per class.**

| Date | Start Time | Location |
|----------------------|------------|----------|
| Nov. 4-8, 2019 | 7:00 A.M. | 2037 |
| Dec. 2-6, 2019 | 7:00 A.M. | 2037 |
| Jan. 6-10, 2020 | 7:00 A.M. | 2037 |
| Jan. 13-17, 2020 | 7:00 A.M. | 2037 |
| Feb. 3-7, 2020 | 7:00 A.M. | 2037 |
| Mar. 9-13, 2020 | 7:00 A.M. | 2037 |
| Mar. 30-Apr. 3, 2020 | 7:00 A.M. | 2037 |

Pipeline Sideboom Techniques

This 40-hour Pipeline sideboom class offers our members the opportunity to develop the skills necessary for sideboom work on a pipeline spread. Hands-on instruction by experienced pipeliners will concentrate on the development of skills such as catching your drift, carrying joints of pipe, carrying sections, carrying concrete coated pipe, general machine control, etc. *Prerequisites:* 500 or more pipeline work hours or previously taken Pipeline, Pipeline Oiler, Introduction to Gas Distribution or Introduction to Pipeline and Gas Distribution Systems courses. **Note: 3 member max per class.**

| Date | Start Time | Location |
|------------------|------------|----------|
| Dec. 9-13, 2019 | 7:00 A.M. | 2037 |
| Jan. 20-24, 2020 | 7:00 A.M. | 2037 |
| Feb. 17-21, 2020 | 7:00 A.M. | 2037 |
| Mar. 2-6, 2020 | 7:00 A.M. | 2037 |
| Mar. 16-20, 2020 | 7:00 A.M. | 2037 |
| Apr. 13-17, 2020 | 7:00 A.M. | 2037 |

Pipeline Excavator Techniques

This 40-hour Pipeline Excavator class offers our members the opportunity to develop the skills necessary for excavator work on a pipeline spread. Hands-on instruction by experienced pipeliners will concentrate on the development of skills such as digging ditch, bell holes, excavating near live lines, digging road approaches, handling of matts, etc. *Prerequisites:* 500 or more pipeline work hours or previously taken one of the following classes: Pipeline, Pipeline Oiler, Introduction to Gas Distribution or Introduction to Pipeline and Gas Distribution Systems. **Note: 6 member max per class.**

| Date | Start Time | Location |
|------------------|------------|----------|
| Dec. 9-13, 2019 | 7:00 A.M. | 2037 |
| Jan. 20-24, 2020 | 7:00 A.M. | 2037 |
| Feb. 17-21, 2020 | 7:00 A.M. | 2037 |
| Mar. 2-6, 2020 | 7:00 A.M. | 2037 |
| Mar. 16-20, 2020 | 7:00 A.M. | 2037 |
| Apr. 13-17, 2020 | 7:00 A.M. | 2037 |

Mass Dirt, General Underground, Excavation & Demolition

Introduction to Sewer and Water Principles

This class was designed for the operator with experience on an excavator or track loader, who is interested in how these machines are utilized in the Sewer and Water industry. Topics to be covered in this class are: working with trench boxes, stone misers, laying sewer pipe, safety habits and materials common to the sewer and water industry, as well as some basic blueprint and plan reading. This class will be a blend of classroom lessons and discussion, all of which will be backed up with hands-on exercises in the field. *Prerequisites:* Excavator or Track Loader proficiency or completion of the Introduction to Excavator class. Members attending this class must attend all classroom activities in order to move on to the hands-on portion of the class. Members should be proficient on an Excavator or Combination Backhoe before attending this course. **Note: 8 member max per class.**

| Date | Start Time | Location |
|------------------|------------|----------|
| Nov. 18-22, 2019 | 7:00 A.M. | 1133 |
| Jan. 20-24, 2020 | 7:00 A.M. | 1133 |
| Feb. 17-21, 2020 | 7:00 A.M. | 1133 |
| Mar. 9-13, 2020 | 7:00 A.M. | 1133 |
| Apr. 13-17, 2020 | 7:00 A.M. | 1133 |

Basement Digging

This 40-hour class is intended for the experienced excavator or track loader operator interested in learning how to dig residential basements. This class will cover blueprint reading, setup and use of a laser, layout, placement of spoils, and excavation. You can expect a blend of classroom and hands-on training. Members must be proficient on an excavator to attend this class. **Note: 8 member max per class.**

| Date | Start Time | Location |
|-----------------|------------|----------|
| Dec. 9-13, 2019 | 7:00 A.M. | 1141 |

Introduction to Skid-Steer Loaders

This 40 hour class will focus on the basic fundamentals of a skidloader. In this class, members will learn the different control patterns, use a variety of different attachments, load trucks and also cut grade for a sidewalk and/or driveway. Also, members will practice loading and unloading their machines and attachments onto and off of a trailer. Through approximately 8 hours of lecture in the classroom and 32 hours hands-on learning in the seat of a machine, this class will try to duplicate multiple real world scenarios. No testing will be done during this class. **Note: 8 member max per class.**

| Date | Start Time | Location |
|------------------|------------|----------|
| Nov. 11-15, 2019 | 7:00 A.M. | 1140 |
| Dec. 9-13, 2019 | 7:00 A.M. | 1140 |
| Jan. 13-17, 2020 | 7:00 A.M. | 1140 |
| Jan. 20-24, 2020 | 7:00 A.M. | 1140 |
| Feb. 3-7, 2020 | 7:00 A.M. | 1140 |
| Feb. 17-21, 2020 | 7:00 A.M. | 1140 |
| Mar. 2-6, 2020 | 7:00 A.M. | 1140 |
| Mar. 9-13, 2020 | 7:00 A.M. | 1140 |
| Apr. 6-10, 2020 | 7:00 A.M. | 1140 |

Introduction to Dozers

This class is designed for the beginning dozer operator. This course teaches pre-operational checks and inspections, safety, develops familiarity with control functions, basic dozer techniques including slot dozing, v-ditches, proper traveling speeds, cuts and fills, striping and stockpiling, and backfilling of trenches. This course will also include basic grade stake reading and a small amount of slope work. **Note: 8 member max per class.**

| Date | Start Time | Location |
|---------------------|------------|----------|
| Nov. 11-15, 2019 | 7:00 A.M. | 1142 |
| Jan. 6-10, 2020 | 7:00 A.M. | 1142 |
| Jan. 20-24, 2020 | 7:00 A.M. | 1142 |
| Jan. 27-31, 2020 | 7:00 A.M. | 1142 |
| Feb. 3-7, 2020 | 7:00 A.M. | 1142 |
| Feb. 17-21, 2020 | 7:00 A.M. | 1142 |
| Mar. 2-6, 2020 | 7:00 A.M. | 1142 |
| Mar. 9-13, 2020 | 7:00 A.M. | 1142 |
| Mar. 30-Apr. 3 2020 | 7:00 A.M. | 1141 |

Intro to Demolition Attachments & Material Processing

This 40 hour class is designed to provide our members with the next level of machine control and skill level. Through approximately 8 hours of lecture in the classroom and 32 hours hands-on learning in the seat of multiple machines, members will learn the fundamentals of demolition. Machines that will be used during this class may include excavators with breakers and processors, loaders with buckets and forks, a concrete crusher, a screen plant that is able to process multiple material types and sizes as well as skidloaders using multiple attachments.

Prerequisites: One of the following: Skidsteer proficiency, Excavator proficiency, Combination proficiency or completion of an Introduction to Excavators or Introduction to Combination Backhoe class. **Note: 8 member max per class.**

| Date | Start Time | Location |
|------------------|------------|----------|
| Nov. 4-8, 2019 | 7:00 A.M. | 1141 |
| Dec. 2-6, 2019 | 7:00 A.M. | 1141 |
| Dec. 16-20, 2019 | 7:00 A.M. | 1141 |
| Jan. 6-10, 2020 | 7:00 A.M. | 1141 |
| Jan. 13-17, 2020 | 7:00 A.M. | 1141 |
| Jan. 20-24, 2020 | 7:00 A.M. | 1141 |
| Jan. 27-31, 2020 | 7:00 A.M. | 1141 |
| Feb. 10-14, 2020 | 7:00 A.M. | 1141 |
| Mar. 2-6, 2020 | 7:00 A.M. | 1141 |
| Mar. 9-13, 2020 | 7:00 A.M. | 1141 |
| Mar. 16-20, 2020 | 7:00 A.M. | 1141 |
| Mar. 23-27, 2020 | 7:00 A.M. | 1141 |
| Apr. 6-10, 2020 | 7:00 A.M. | 1141 |
| Apr. 13-17, 2020 | 7:00 A.M. | 1141 |



Introduction to Excavators

This 40-hour class was designed for operators with minimal excavator experience. This course will include a blend of classroom discussion and hands-on training designed to enhance your skills throughout the week. This course begins in the classroom and covers several areas of safety, including machine safety, trench safety, and utility safety. We will move into the machine and work on drills designed to gain basic control of the machine and finish with basic ditching exercises and truck loading (weather permitting). **Note: 8 member max per class.**

| Date | Start Time | Location |
|----------------------|------------|----------|
| Nov. 11-15, 2019 | 7:00 A.M. | 1133 |
| Dec. 2-6, 2019 | 7:00 A.M. | 1133 |
| Dec. 16-20, 2019 | 7:00 A.M. | 1133 |
| Jan. 6-10, 2020 | 7:00 A.M. | 1133 |
| Jan. 27-31, 2020 | 7:00 A.M. | 1133 |
| Feb. 3-7, 2020 | 7:00 A.M. | 1133 |
| Mar. 2-6, 2020 | 7:00 A.M. | 1133 |
| Mar. 30-Apr. 3, 2020 | 7:00 A.M. | 1133 |
| Apr. 6-10, 2020 | 7:00 A.M. | 1133 |



Mass Dirt

This class will cover most aspects of a mass dirt job site. During this 40 hour class members will be instructed on a wide variety of dirt equipment. Machines being used in this class include excavators, articulating dump trucks, large dozers, scrapers and compactors. Members will run most, if not all, of these machines throughout the week. Some of the job site scenarios that may be performed during the week include road building, ditch work, pond excavation and building pad construction. *Prerequisites:* One of the following: Dozer proficiency, Excavator proficiency, Introduction to Excavator class or Introduction to Dozer class. **Note: 8 member max per class.**

| Date | Start Time | Location |
|------------------|------------|----------|
| Dec. 2-6, 2019 | 7:00 A.M. | 1140 |
| Dec. 16-20, 2019 | 7:00 A.M. | 1140 |
| Jan. 13-17, 2020 | 7:00 A.M. | 1140 |
| Jan. 27-31, 2020 | 7:00 A.M. | 1140 |
| Feb. 10-14, 2020 | 7:00 A.M. | 1140 |
| Feb. 24-28, 2020 | 7:00 A.M. | 1140 |
| Mar. 9-13, 2020 | 7:00 A.M. | 1140 |
| Mar. 23-27, 2020 | 7:00 A.M. | 1140 |
| Apr. 6-10, 2020 | 7:00 A.M. | 1140 |

Introduction to Combination Backhoe

This 40-hour class is designed for operators with minimal combination backhoe experience. This course will include a blend of classroom discussion and hands-on training designed to enhance your skills throughout the week. This class will start off in the classroom covering safety in and around the machine, after which we will move into the machine and work on drills designed to gain basic control of the bucket and backhoe finishing with ditching, handling street plates, and utility digs.

Note: 8 member max per class.

| Date | Start Time | Location |
|----------------------|------------|----------|
| Nov. 11-15, 2019 | 7:00 A.M. | 1141 |
| Dec. 16-20, 2019 | 7:00 A.M. | 1145 |
| Jan. 20-24, 2020 | 7:00 A.M. | 1145 |
| Jan. 27-31, 2020 | 7:00 A.M. | 1145 |
| Feb. 3-7, 2020 | 7:00 A.M. | 1145 |
| Feb. 17-21, 2020 | 7:00 A.M. | 1145 |
| Mar. 2-6, 2020 | 7:00 A.M. | 1145 |
| Mar. 9-13, 2020 | 7:00 A.M. | 1145 |
| Mar. 23-27, 2020 | 7:00 A.M. | 1145 |
| Mar. 30-Apr. 3, 2020 | 7:00 A.M. | 1145 |

Introduction to Gradalls

This 40-hour class is designed for operators with no Gradall experience. This course will include minimal classroom with the majority of time being hands-on. The course will cover pre-operational checks and inspections, safety, daily maintenance, familiarity with control functions, basic operational techniques including machine placement, barrier wall (loading, placement and handling), ditching, truck loading, patch removal, and grading. The prerequisites for this course are a class B CDL and basic knowledge of excavation and road work. **Note: 8 member max per class.**

| Date | Start Time | Location |
|----------------------|------------|----------|
| Mar. 30-Apr. 3, 2020 | 7:00 A.M. | 1143 |
| Apr. 13-17, 2020 | 7:00 A.M. | 1051 |

Introduction to Hydro-Vac Excavation

This 40-hour course is designed to provide a program for operators to develop the skills needed to operate a hydro “vacuum” excavation machine. Each student will demonstrate utility locating “potholing” and trenching techniques. Material covered will include, how a hydro excavator system works, safety concerns, DOT regulations and inspections, OSHA excavation regulations and systems trouble shooting. Due to state licensing requirements, members should have a CDL with “Tanker” endorsement prior to attending this class.

| Date | Start Time | Location |
|------------------|------------|----------|
| Jan. 13-17, 2020 | 7:00 A.M. | 1149 |
| Jan. 20-24, 2020 | 7:00 A.M. | 1149 |
| Feb. 3-7, 2020 | 7:00 A.M. | 1149 |
| Feb. 10-14, 2020 | 7:00 A.M. | 1149 |
| Feb. 17-21, 2020 | 7:00 A.M. | 1149 |
| Feb. 24-28, 2020 | 7:00 A.M. | 1149 |
| Mar. 2-6, 2020 | 7:00 A.M. | 1149 |
| Mar. 9-13, 2020 | 7:00 A.M. | 1149 |
| Mar. 23-27, 2020 | 7:00 A.M. | 1149 |

Dirt Equipment Certification

Advanced Excavator Techniques

This class is designed for the experienced excavator operator. Members who register for this class must be proficient and have a minimum of 4,000 hours of job site experience on a track backhoe within the last 10 years. Classroom topics include OSHA related safety topics, terms and definitions, operating procedures and techniques, rigging and load charts, soil mechanics, understanding grades, pipe lasers and laser set-up, excavating in the presence of or around underground utilities, all types of related excavation work, demolition, UST removal, sloping and the use of trench boxes (ditch shields). Members must pass a written test before they take the practical test. Both the written and practical tests must be passed to become excavator certified.

| Date | Start Time | Location |
|------------------|------------|----------|
| Nov. 25-27, 2019 | 7:00 A.M. | 1133 |
| Jan. 13-15, 2020 | 7:00 A.M. | 1133 |
| Feb. 24-26, 2020 | 7:00 A.M. | 1133 |

Advanced Dozer Techniques

This 4-hour class is for the experienced finish dozer operator. Members who register for this class must be proficient and have at least 4,000 hours of job site experience on a dozer within the last 10 years. Classroom topics such as terms and definitions, safety, job planning, grading methods and techniques, grade stakes and print reading, laser setup and use are all covered in the classroom. Members must pass the written test before they take the practical test. Both the written and practical tests must be passed to become dozer-certified.

| Date | Start Time | Location |
|---------------|------------|----------|
| Nov. 26, 2019 | 7:00 A.M. | 1142 |
| Jan. 2, 2020 | 7:00 A.M. | 1142 |

Advanced Blade Techniques

This 4-hour class is for the experienced blade operator. Members who register for this class must already be proficient and have 4,000 hours of job site experience on a blade within the last 10 years. Topics covered include terms and definitions, safety, job planning, grading methods and techniques, grade stakes and print reading, laser setup and use are all covered in the classroom. Members must pass the written test before they take the practical test. Both the written and practical tests must be passed to become blade certified.

| Date | Start Time | Location |
|---------------|------------|----------|
| Nov. 26, 2019 | 11:30 A.M. | 1142 |
| Jan. 2, 2020 | 11:30 A.M. | 1142 |

Road Construction



Introduction to Asphalt Paving and Rolling

In this 40-hour course, members will learn the basic components and setup procedures associated with asphalt pavers. Safety, setup, and proper use of the machines will be the main focus of this class. Members will also learn about the different asphalt rollers and rolling patterns. This course will include a blend of classroom and hands-on training. **Note: 10 member max per class.**

| Date | Start Time | Location |
|------------------|------------|----------|
| Jan. 6-10 , 2020 | 7:00 A.M. | 2123 |
| Jan. 13-17, 2020 | 7:00 A.M. | 2123 |
| Feb. 3-7, 2020 | 7:00 A.M. | 2123 |
| Feb. 10-14, 2020 | 7:00 A.M. | 2123 |
| Mar. 2-6, 2020 | 7:00 A.M. | 2123 |
| Mar. 9-13, 2020 | 7:00 A.M. | 2123 |

Fundamentals of Asphalt Paving and Rolling

This 40-hour class is a continuation of where the Introduction to Asphalt Paving and Rolling class left off. Members will learn how to pave and roll around different obstacles such as light poles, manholes and different types of curbs. Students will be focusing on creating and rolling different types of joints used on

mainline jobs as well as small jobs such as driveways and parking lots. Members will also learn how to pave and roll intersections and cul-de-sac's. The course will include some classroom work, but will mainly be hands-on training.

Prerequisite: Introduction to Paving and Rolling class or 500 hours working on an asphalt paving crew. **Note: 10 member max per class.**

| Date | Start Time | Location |
|------------------|------------|----------|
| Jan. 20-24, 2020 | 7:00 A.M. | 2123 |
| Feb. 17-21, 2020 | 7:00 A.M. | 2123 |
| Mar. 16-20, 2020 | 7:00 A.M. | 2123 |

Introduction to Road Grinding

This class is an introduction to the controlled cold milling of pavement to restore the surface to a specified profile. Bumps, ruts, and other surface irregularities are removed, leaving a uniform textured surface. This is an introductory course designed for the individual with little to no experience in this field. This course will include classroom as well as hands-on training.

| Date | Start Time | Location |
|------------------|------------|----------|
| Dec. 2-6, 2019 | 7:00 A.M. | 2122 |
| Dec. 9-13, 2019 | 7:00 A.M. | 2122 |
| Dec. 16-20, 2019 | 7:00 A.M. | 2122 |
| Jan. 6-10, 2020 | 7:00 A.M. | 2122 |
| Jan. 13-17, 2020 | 7:00 A.M. | 2122 |
| Jan. 20-24, 2020 | 7:00 A.M. | 2122 |

Intro to Material Transfer Vehicles & Road Wideners

In this 24-hour class, members will be introduced to material transfer vehicles (shuttle buggies) and road wideners. Through a combination of lecture and hands-on training, members will learn about safety, set up, operation and how these machines are used on a variety of road jobs today.

| Date | Start Time | Location |
|------------------|------------|----------|
| Jan. 28-30, 2020 | 7:00 A.M. | 2123 |
| Feb. 25-27, 2020 | 7:00 A.M. | 2123 |
| Mar. 24-26, 2020 | 7:00 A.M. | 2123 |

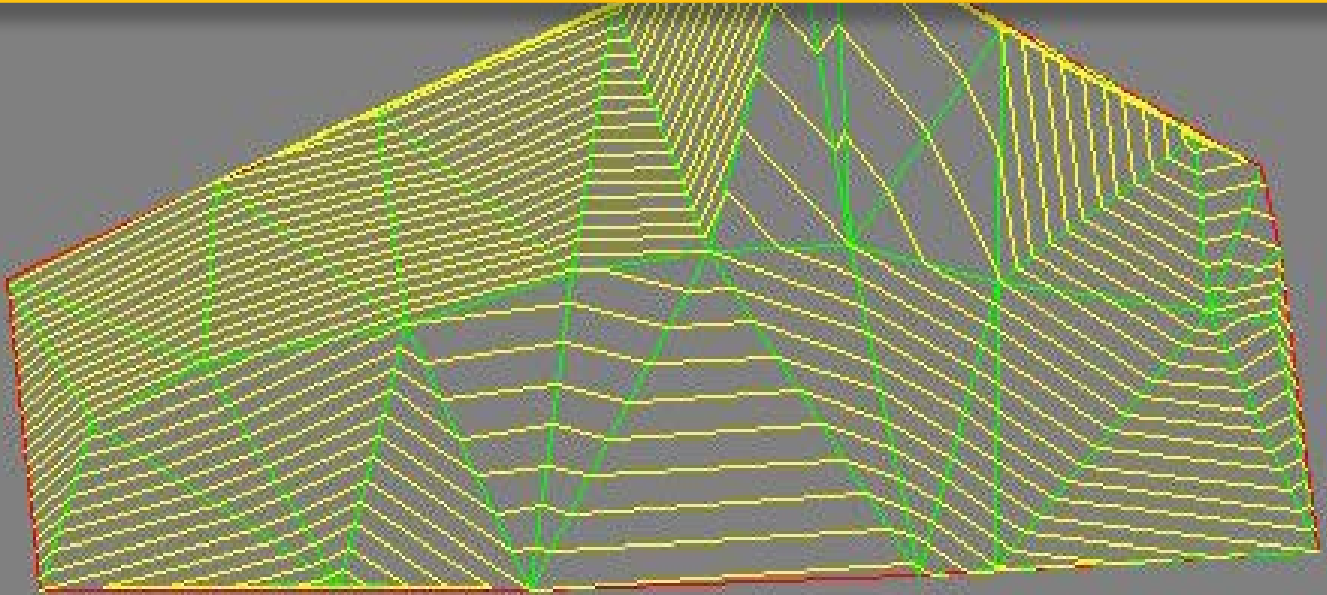
Concrete Pumping and Belt Placement

This 40-hour course will be offered to members who would like to work with and learn about modern concrete pumping systems. Members will learn to work with various applications, components, outputs, pump capacities and line pressures that are associated with truck mounted pumps. Safe and efficient machine

setup, assembly of the piping, start-up, operating the pump, slump mixture, blockages, preventive maintenance and cleanout will all be covered during the week. Members must have a CDL to attend this class.

| Date | Start Time | Location |
|----------------------|------------|----------|
| Dec. 9-13, 2019 | 7:00 A.M. | 1149 |
| Jan. 6-10, 2020 | 7:00 A.M. | 1149 |
| Mar. 30-Apr. 3, 2020 | 7:00 A.M. | 1149 |

Site Work, Staking, GPS, Drones & Digital Technologies



Grade Stakes, Layout and Plan Reading

This class is designed to help members develop and utilize the skills involved in job site construction. Members will be trained to read and set grade stakes, learn how to read and interpret blueprints as well as lay out a job site based on criteria given. As part of this class, members may use a laser, transit, hand level, and various other instruments to develop basic site work skills. Some of the exercises to be performed will be basic computations and arithmetic, job site layout and instrument set up.

| Date | Start Time | Location |
|------------------|------------|----------|
| Nov. 18-22, 2019 | 7:00 A.M. | 1142 |
| Mar. 2-6, 2020 | 7:00 A.M. | 1142 |

Introduction to Digital Take-Off

This course explores the knowledge needed to utilize take-off hardware and software to calculate volumetric calculations. Students will utilize skills relating to grade stakes, plan reading, layout, global positioning systems, metric and mathematical computations.

| Date | Start Time | Location |
|---------------|------------|----------|
| Nov. 21, 2019 | 7:00 A.M. | 2115 |
| Mar. 5, 2020 | 7:00 A.M. | 2115 |

GPS: Survey and Rover Pole

This 40-hour class will introduce members to Topcon, Trimble and Leica GPS survey equipment. Members will be trained how to set up a rover pole, controller, and base station as well as learn how to use the software associated with each controller. Through a combination of lecture and hands-on exercises, while using the equipment provided, members will calibrate a job site, establish control points, shoot topographical elevations, transfer GPS information to grade stakes as well as use other functions in the controller to layout a jobsite and compute distances and quantities. ** This class will be held at the IUOE National Training Site in Crosby, TX. Please contact ASIP to register for this class. Note: 10 member max per class.*

| Date | Start Time | Location |
|------------------------|------------|------------|
| Dec. 2-6, 2019 | 7:00 A.M. | 1142 |
| Feb. 24-29, 2020 * | 7:00 A.M. | Crosby, TX |
| Mar. 16-20, 2020 | 7:00 A.M. | 1142 |
| Mar. 30-Apr. 4, 2020 * | 7:00 A.M. | Crosby, TX |

GPS and Machine Control

In this 40-hour class intended for seasoned dozer operators, members will be trained to use Topcon, Trimble and Leica GPS machine control hardware and software. Through lecture and hands-on exercises, members will learn how to navigate the machine interface, perform grading tasks, transfer files between equipment as well as basic troubleshooting and maintenance. In the event of inclement weather, class will be held indoors where the use of robotic total stations and simulators will be used to supplement the hands-on portion of the class. *Prerequisite:* Members need a minimum of 1,000 hours operating a dozer in the last 5 years. ** This class will be held at the IUOE National Training Site in Crosby, TX. Please contact ASIP to register for this class. Note: 8 member max per class.*

| Date | Start Time | Location |
|------------------------|------------|------------|
| Dec. 16-20, 2019 | 7:00 A.M. | 1142 |
| Jan. 6-11, 2019 * | 7:00 A.M. | Crosby, TX |
| Jan. 20-24, 2020 | 7:00 A.M. | 1142 |
| Mar. 23-27, 2020 | 7:00 A.M. | 1142 |
| Mar. 30-Apr. 4, 2020 * | 7:00 A.M. | Crosby, TX |
| Apr. 6-10, 2020 | 7:00 A.M. | 1142 |



Drone Level 1

This course provides operators with the knowledge required to obtain an FAA unmanned aerial system remote pilot certificate and develop the skills needed to safely operate a UAV commercially. Each member will demonstrate an understanding of FAA part 107 regulations and testing procedures. The material covered in this course includes regulations, specific techniques used on construction and inspection sites and basic flight procedures. Upon completion of this course, student will be able to: identify different types of drone missions used for construction, understand the options for processing data, demonstrate basic drone flying competency and take and pass the FAA Part 107 exam.

| Date | Start Time | Location |
|------------------|------------|----------|
| Oct. 14-18, 2019 | 7:00 A.M. | 1143 |
| Feb. 3-7, 2020 | 7:00 A.M. | 1143 |
| Feb. 10-14, 2020 | 7:00 A.M. | 1143 |
| May 11-15, 2020 | 7:00 A.M. | 1143 |



Drone Level 2

This course provides operators with the skills to use drones for construction applications. Materials covered in this course will include specific techniques used on construction sites, advanced flight procedures used in inspections, automated data collection for surveying applications, photometric data processing and choosing payloads for specific mission parameters. *Prerequisite:* Member must have taken the Drone Level 1 course and be in the process of testing with the FAA.

| Date | Start Time | Location |
|------------------|------------|----------|
| Mar. 16-20, 2020 | 7:00 A.M. | 1143 |
| Jun. 1-5, 2020 | 7:00 A.M. | 1143 |



OECP Certification Test Dates

Written Examinations

| Date | Start Time | Location |
|---------------|------------|----------|
| Oct. 19, 2019 | 7:00 A.M. | 1140 |
| Nov. 9, 2019 | 7:00 A.M. | 1140 |
| Dec. 14, 2019 | 7:00 A.M. | 1140 |
| Jan. 25, 2020 | 8:00 A.M. | 1140 |
| Feb. 15, 2020 | 8:00 A.M. | 1140 |
| Mar. 7, 2020 | 8:00 A.M. | 1140 |
| Apr. 4, 2020 | 8:00 A.M. | 1140 |

Practical Examinations

| Date | Start Time | Location |
|---------------|------------|----------|
| Oct. 5, 2019 | 7:00 A.M. | 1140 |
| Nov. 2, 2019 | 7:00 A.M. | 1140 |
| Nov. 16, 2019 | 7:00 A.M. | 1140 |
| Nov. 23, 2019 | 7:00 A.M. | 1140 |
| Feb. 22, 2020 | 7:00 A.M. | 1140 |
| Mar. 21, 2020 | 7:00 A.M. | 1140 |
| Apr. 18, 2020 | 7:00 A.M. | 1140 |

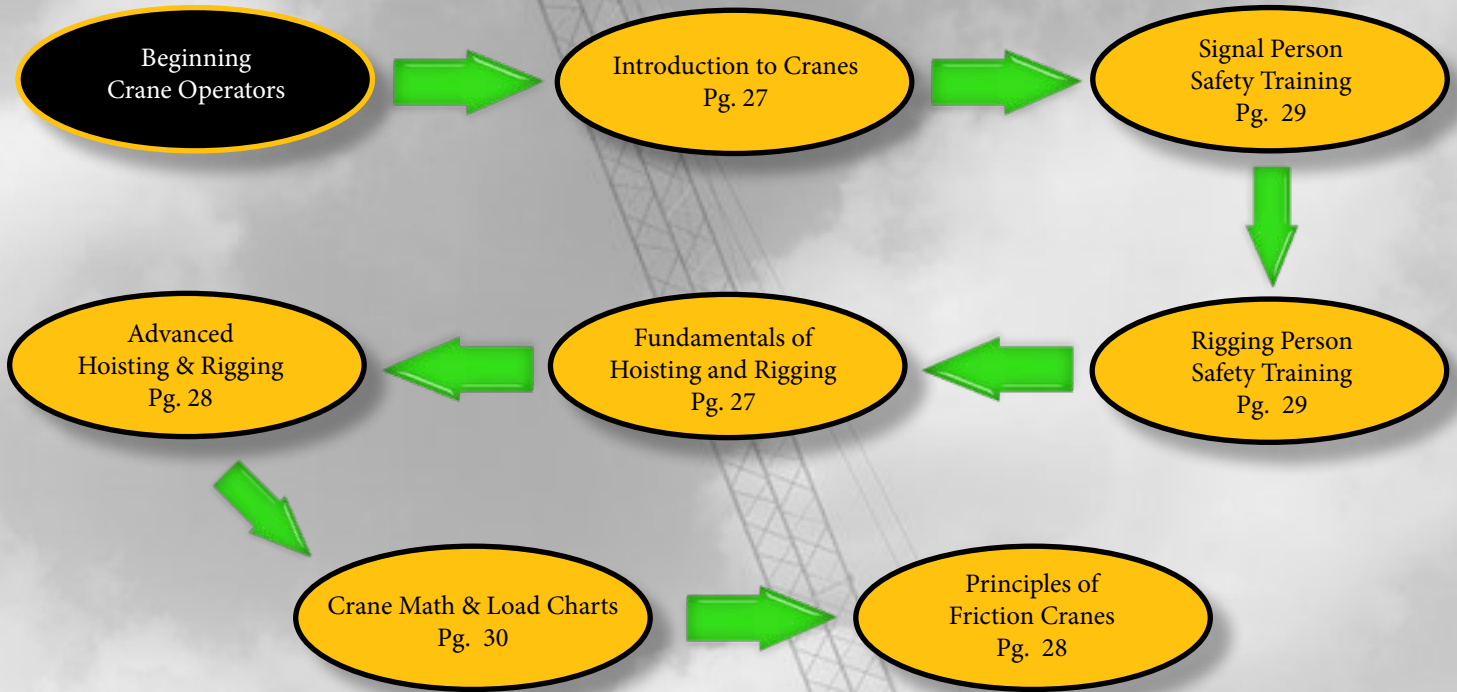
Overhead Practical Exams

| Date | Start Time | Location |
|---------------|------------|----------|
| Oct. 19, 2019 | 7:00 A.M. | 1140 |
| Dec. 14, 2019 | 7:00 A.M. | 1140 |
| Feb. 15, 2020 | 7:00 A.M. | 1140 |
| Apr. 4, 2020 | 7:00 A.M. | 1140 |

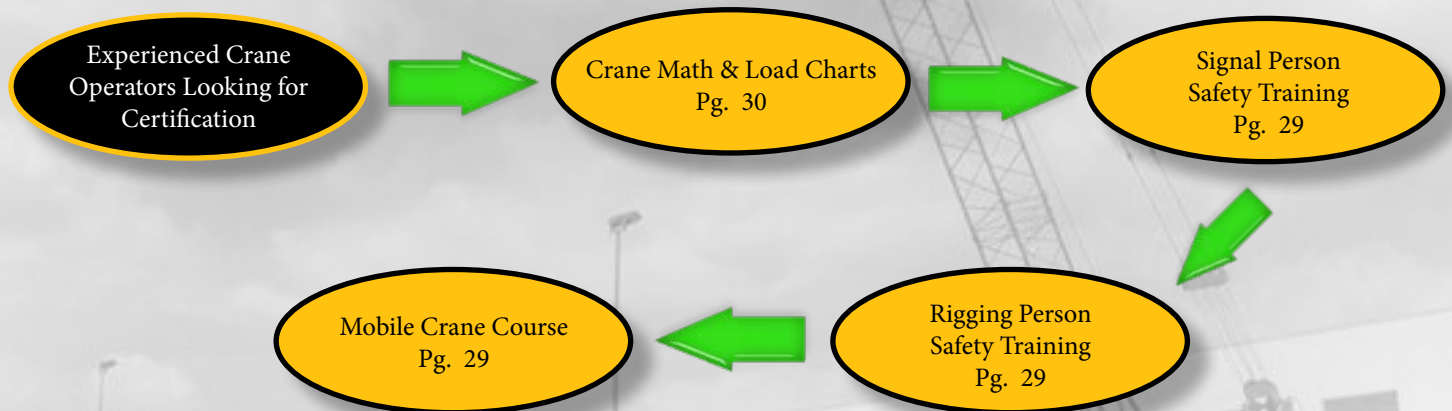
Crane Department

To help navigate through the list of Crane Related Instruction. Our Crane Department has recommended two paths for Operators interested in learning about cranes. One path is for the member just looking at getting into crane operation and the other is for the experienced crane operator looking for licensing/certification.

*Please understand that these are just recommendations and not necessarily set as prerequisites to one another.



*Note: The Signal Person Safety Training class is included as part of the Introduction to Cranes class.



Introduction to Cranes

This 40 hour class has been designed as an entry level crane class for the member looking to possibly become a crane operator. Topics to be covered in this class included types of cranes, components, preventative maintenance, basic rigging and signaling. The Qualified Signal Person Safety Training is included in this class. **Note: 15 member max per class.**

| Date | Start Time | Location |
|----------------------|------------|----------|
| Nov. 18-22, 2019 | 7:00 A.M. | 2023 |
| Dec. 9-13, 2019 | 7:00 A.M. | 2023 |
| Jan. 13-17, 2020 | 7:00 A.M. | 2023 |
| Jan. 27-31, 2020 | 7:00 A.M. | 2023 |
| Feb. 3-7, 2020 | 7:00 A.M. | 2023 |
| Mar. 2-6, 2020 | 7:00 A.M. | 2023 |
| Mar. 30-Apr. 3, 2020 | 7:00 A.M. | 2023 |

Introduction to Tower Cranes

This 48 hour (6 day) class is an introduction to tower cranes that will be conducted in Crosby, Texas. prerequisites for the class are an OECP and 2000 hours of documented crane experience in the last 5 years.* *This class will be held at the IUOE National Training Site in Crosby, TX. Please contact ASIP to register for this class.*

| Date | Start Time | Location |
|--------------------|------------|------------|
| Nov. 11-16, 2019 * | 7:00 A.M. | Crosby, TX |
| Dec. 9-14, 2019 * | 7:00 A.M. | Crosby, TX |
| Jan. 13-18, 2020 * | 7:00 A.M. | Crosby, TX |

Fundamentals of Hoisting and Rigging

This 80-hour class is designed for the beginner crane operator. Topics will include various aspects of craning, such as wire rope and rigging, proper setup procedures, load moment indicator (LMI) programming, load chart reading including calculations and deductions, operator responsibilities, assembly/disassembly and safe work practices. The class time is divided equally between classroom and hands-on training for hydraulic and friction cranes. *Prerequisite:* Introduction to Cranes or previously taken Fundamentals of Hoisting and Rigging. **Note: 10 member max per class.**

| Date | Start Time | Location |
|------------------|------------|----------|
| Jan. 13-24, 2020 | 7:00 A.M. | 2023 |
| Feb. 3-14, 2020 | 7:00 A.M. | 2023 |
| Feb. 17-28, 2020 | 7:00 A.M. | 2023 |
| Mar. 2-13, 2020 | 7:00 A.M. | 2023 |
| Apr. 6-17, 2020 | 7:00 A.M. | 2023 |

Advanced Hoisting and Rigging

This 40-hour class is designed around the crane operator looking to expand his or her knowledge and job type experience. The class consists of job-based experiences with operators working as a team. Each task must be completed on time and will be evaluated upon completion. All members attending this class will receive a Certificate of Completion. *Prerequisites:* Crane certified (OECF, Local 150 or City of Chicago) or prior completion of Fundamentals Hoisting and Rigging (80 Hour class). **Note: 6 member max per class.**

| Date | Start Time | Location |
|------------------|------------|----------|
| Jan. 27-31, 2020 | 7:00 A.M. | 2025 |
| Feb. 24-28, 2020 | 7:00 A.M. | 2025 |
| Mar. 23-27, 2020 | 7:00 A.M. | 2025 |
| Apr. 13-17, 2020 | 7:00 A.M. | 2025 |

Principles of Friction Cranes

This 40-hour class is devoted to Crawler type Friction Cranes. Topics covered will be safety, maintenance, and operation. The different applications of Friction Cranes will also be covered. Fundamentals of Hoisting and Rigging is a prerequisite for this class. **Note: 6 member max per class.**

| Date | Start Time | Location |
|----------------------|------------|----------|
| Oct. 28-Nov. 1, 2019 | 7:00 A.M. | 2025 |
| Nov. 11-15, 2019 | 7:00 A.M. | 2025 |
| Apr. 6-10, 2020 | 7:00 A.M. | 2025 |

Introduction to Luffing Jib

This 48 hour (6 day) class is an introduction to Luffing jib crawler cranes that will be conducted in Crosby, Texas. Prerequisites for the class are an OECF for mobile cranes and 2000 hours of documented crane experience in the last 2 years.

| Date | Start Time | Location |
|------------------------|------------|------------|
| Nov. 18-23, 2019 * | 7:00 A.M. | Crosby, TX |
| Mar. 30-Apr. 4, 2020 * | 7:00 A.M. | Crosby, TX |

The class will cover assembly and disassembly of the machine along with setup, operations and shutdown. * *This class will be held at the IUOE National Training Site in Crosby, TX. Please contact ASIP to register for this class.*



Signal Person Safety Training

This class was developed to meet the NEW OSHA standard CC 1926.1428 Signal Person Qualification. This new standard is going to require any person signaling a crane to be a Qualified Signal Person and they will need documentation of taking both a written and practical examination. After successfully completing this class, a member would meet the requirements of a qualified signal person. The curriculum is all classroom based and will cover topics such as: hand signals, voice signals, power line safety, crane dynamics and more. Both a written and practical exam will be administered after the completion of the course.

| Date | Start Time | Location |
|---------------|------------|----------|
| Nov. 7, 2019 | 7:00 A.M. | 2023 |
| Nov. 21, 2019 | 7:00 A.M. | 2023 |
| Dec. 12, 2019 | 7:00 A.M. | 2023 |
| Jan. 16, 2020 | 7:00 A.M. | 2023 |
| Jan. 24, 2020 | 7:00 A.M. | 2023 |
| Jan. 30, 2020 | 7:00 A.M. | 2023 |
| Feb. 6, 2020 | 7:00 A.M. | 2023 |
| Mar. 5, 2020 | 7:00 A.M. | 2023 |
| Apr. 2, 2020 | 7:00 A.M. | 2023 |

Rigging Person Safety Training

This 24-hour safety training class will provide you with a safety training certificate to help the contractor qualify you as a rigger. Topics covered will be selection and inspection of rigging equipment, types of hitches, rigging hardware, specialty attachments, and all applicable OSHA standards. In order to successfully pass this course, you must attend all three days of class, pass a written assessment, pass a practical inspection, and complete hands-on practical rigging exercises in the crane field. *Prerequisite:* Signal Person Safety Training.

| Date | Start Time | Location |
|------------------|------------|----------|
| Nov. 4-6, 2019 | 7:00 A.M. | 2025 |
| Dec. 4-6, 2019 | 7:00 A.M. | 2025 |
| Dec. 18-20, 2019 | 7:00 A.M. | 2025 |
| Jan. 8-10, 2020 | 7:00 A.M. | 2025 |
| Feb. 19-21, 2020 | 7:00 A.M. | 2025 |
| Mar. 25-27, 2020 | 7:00 A.M. | 2025 |
| Apr. 15-17, 2020 | 7:00 A.M. | 2025 |

Mobile Crane

This 40-hour class is designed for members with 1,000 hours or more of crane related experience who would like to pursue Crane Certification. The curriculum is primarily classroom-based, offering little hands-on training. Course instructors will cover subjects pertaining to crane types, nomenclature/components, crane setup, and various crane accidents. The OSHA and ANSI standards will be covered with emphasis on power line safety, suspended personal platforms, and crane inspections, including shift, monthly, and annual. Other key topics include wire rope and rigging, hand signals, and principles of operation. Math and load charts have been removed due to time constraints. Both are now available as separate courses in this catalog.

| Date | Start Time | Location |
|----------------------|------------|----------|
| Dec. 9-13, 2019 | 7:00 A.M. | 2024 |
| Jan. 20-24, 2020 | 7:00 A.M. | 2024 |
| Mar. 2-6, 2020 | 7:00 A.M. | 2024 |
| Mar. 30-Apr. 3, 2020 | 7:00 A.M. | 2024 |

Crane Math and Load Charts

This 16-hour course was created for experienced and aspiring crane operators. The topics that will be covered include: working with percentages, fractions, decimals, conversions, and estimating weights through the use of standardized formulas. These skills will be taught with and without the use of calculators as the use of calculators is prohibited during certification exams. We will cover notes interpretation along with understanding and the utilization of load charts and range diagrams. We will utilize charts from various manufacturers and different crane types in this class. This class is recommended for those members preparing for crane certification.

| Date | Start Time | Location |
|------------------|------------|----------|
| Nov. 25-26, 2019 | 7:00 A.M. | 2024 |
| Dec. 2-3, 2019 | 7:00 A.M. | 2024 |
| Dec. 16-17, 2019 | 7:00 A.M. | 2024 |
| Jan. 6-7, 2020 | 7:00 A.M. | 2024 |
| Feb. 17-18, 2020 | 7:00 A.M. | 2024 |
| Mar. 23-24, 2020 | 7:00 A.M. | 2024 |
| Apr. 13-14, 2020 | 7:00 A.M. | 2024 |

Liebherr 1095 Assembly/Disassembly

This class is designed to introduce our members to the 1095 Liebherr truck crane. Throughout various hands-on exercises our members will set up, break down and operate the crane. This class is intended for members looking to familiarize themselves with Liebherr cranes and the new technology that is used during the assembly, disassembly and operation of the machine. Note: Max 10 members per class.

| Date | Start Time | Location |
|------------------|------------|----------|
| Dec. 16-20, 2019 | 7:00 A.M. | 2025 |
| Jan. 6-10, 2020 | 7:00 A.M. | 2025 |
| Mar. 23-27, 2020 | 7:00 A.M. | 2025 |
| Apr. 20-24, 2020 | 7:00 A.M. | 2025 |



Heavy Equipment Technician Classes



Electrical 1

This 20-hour course is designed for the member new to electrical circuits. This class will look into the “Series” portion of electrical circuits. Use of digital multi-meters and electrical schematics will be covered in this course. There will be a balance of classroom and hands-on training provided. This class will be taught in 2 ½ days, classes starting on Monday will begin at 7 A.M. and those starting on Wednesday will begin at 11:30 A.M.

| Date | Start Time | Location |
|------------------|------------|----------|
| Oct. 28-30, 2019 | 7:00 A.M. | 1054 |
| Jan. 20-22, 2020 | 7:00 A.M. | 1054 |
| Feb. 17-19, 2020 | 7:00 A.M. | 1054 |

Electrical 2

This 20-hour course is designed for the member that has some experience with electrical circuits. This class will look into the “Parallel” and “Series/Parallel” portion of electrical circuits. There will be discussion of connector repair and hands-on machine troubleshooting in this course. There will be a balance

of classroom and hands-on training provided. This class will be taught in 2 ½ days, classes starting on Monday will begin at 7 A.M. and those starting on Wednesday will begin at 11:30 A.M.

| Date | Start Time | Location |
|----------------------|------------|----------|
| Oct. 30-Nov. 1, 2019 | 11:30 A.M. | 1054 |
| Jan. 22-24, 2020 | 11:30 A.M. | 1054 |
| Feb. 19-21, 2020 | 11:30 A.M. | 1054 |

Electrical 3

This 20-hour class focuses heavily on troubleshooting electrical problems using schematics. Electrical I & II classes are strongly recommended prior to taking this course.

| Date | Start Time | Location |
|------------------|------------|----------|
| Nov. 18-20, 2019 | 7:00 A.M. | 1054 |
| Jan. 27-29, 2020 | 7:00 A.M. | 1054 |
| Feb. 24-26, 2020 | 7:00 A.M. | 1054 |

Hydraulics I

This 20-hour course will give the student a strong foundation in hydraulics as they relate to heavy equipment repair. There will be discussion on the components that make up the basic hydraulic system as well as use of schematics to understand hydraulic principles. There will be a balance of classroom and hands-on training. This class will be taught in 2 ½ days, classes starting on Monday will begin at 7 A.M. and those starting on Wednesday will begin at 11:30 A.M.

| Date | Start Time | Location |
|----------------|------------|----------|
| Feb. 3-5, 2020 | 7:00 A.M. | 1049 |
| Mar. 2-4, 2020 | 7:00 A.M. | 1049 |

Hydraulics II

This is a 20-hour course that will give the student a strong foundation of hydraulic schematics as they relate to heavy equipment repair. There will be a balance of classroom and hands-on training. This class will be taught in 2 ½ days, classes starting on Monday will begin at 7 A.M. and those starting on Wednesday will begin at 11:30 A.M.

| Date | Start Time | Location |
|----------------|------------|----------|
| Feb. 5-7, 2020 | 11:30 A.M. | 1049 |
| Mar. 4-6, 2020 | 11:30 A.M. | 1049 |

Diesel Fuel Systems

This is a 20-hour course that covers mechanical diesel fuel systems. This course covers system design, theory of operation, troubleshooting techniques and discussion of repair procedures. There will be a balance of classroom and hands-on training. This class will be taught in 2 ½ days.

| Date | Start Time | Location |
|----------------|------------|----------|
| Dec. 2-4, 2019 | 7:00 A.M. | 1034 |
| Feb. 3-5, 2020 | 7:00 A.M. | 1034 |



Electronic Engine Controls

This 20-hour course covers electronic diesel fuel system design, theory of operation, troubleshooting techniques and discussion of repair procedures. There will be a balance of classroom and hands-on training. This class will be taught in 2 ½ days.

| Date | Start Time | Location |
|----------------|------------|----------|
| Dec. 4-6, 2019 | 11:30 A.M. | 1034 |
| Feb. 5-7, 2020 | 11:30 A.M. | 1034 |

Engine Disassembly and Assembly

This is a 20-hour course that covers disassembly and assembly of diesel engines. This class is entirely hands-on. This class will be taught in 2 ½ days, classes starting on Monday will begin at 7 A.M. and those starting on Wednesday will begin at 11:30 A.M.

| Date | Start Time | Location |
|------------------|------------|----------|
| Nov. 13-15, 2019 | 11:30 A.M. | 1049 |
| Feb. 12-14, 2020 | 11:30 A.M. | 1034 |

Hydrostatic Drive Systems

This is a 20-hour class covering modern crawler hydrostatic drive systems, maintenance, troubleshooting and repair. This interactive course will include an explanation of electronic control systems used on hydrostatic drive machines. The operation and testing of hydrostatic components and control systems will be part of the course. Technicians will participate in testing and troubleshooting both the electronic and hydraulic portions of the hydrostatic drive system. Maintenance and component replacement will also be included in the course. This class will be taught in 2 ½ days.

| Date | Start Time | Location |
|------------------|------------|----------|
| Feb. 12-14, 2020 | 11:30 A.M. | 1049 |

Excavator Hydraulic Systems

This is a 20-hour course that covers modern excavator hydraulic systems, troubleshooting and repair. There will be a balance of classroom and hands-on training. This class will be taught in 2 ½ days.

| Date | Start Time | Location |
|------------------|------------|----------|
| Feb. 10-12, 2020 | 7:00 A.M. | 1049 |

Mobile Air Conditioning Service and Certification

This 20-hour course is designed to train a technician to properly service mobile air conditioning systems as well as provide them the opportunity to become certified to legally perform mobile air conditioning service work. Topics covered include: refrigerant types, principles relating to air conditioning, air conditioning components, refrigerant identification, performance testing air conditioning systems, and leak detection.

| Date | Start Time | Location |
|-----------------|------------|----------|
| Apr. 1-3, 2020 | 11:30 A.M. | 1053 |
| Apr. 8-10, 2020 | 11:30 A.M. | 1053 |

Tier 4 Final

This 20-hour course was designed to explain Tier 4 Final as it relates to diesel engines. This course will cover the operation of the emissions system as well as basic troubleshooting techniques.

| Date | Start Time | Location |
|------------------|------------|----------|
| Nov. 11-13, 2019 | 7:00 A.M. | 1034 |
| Feb. 10-12, 2020 | 7:00 A.M. | 1034 |

Fundamentals of Power Trains

This 20-hour course covers the basic components and operation of power train systems. Technicians will participate in the testing, disassembly evaluation and reassembly of torque converters and power shift transmissions.

| Date | Start Time | Location |
|------------------|------------|----------|
| Nov. 13-15, 2019 | 11:30 A.M. | 1034 |
| Jan. 29-31, 2020 | 11:30 A.M. | 1034 |

Bolt Extraction and Plasma Cutting

This is an 8-hour class focusing on different methods of removing broken bolts as well as plasma cutting, carbon arc gouging and oxy-lance slice rod operations.

| Date | Start Time | Location |
|---------------|------------|----------|
| Nov. 22, 2019 | 7:00 A.M. | 1053 |
| Jan. 20, 2020 | 7:00 A.M. | 1053 |

Heavy Equipment Welding Classes

Shielded Metal Arc Welding (SMAW) 1

This is a 20-hour course covering Stick (SMAW) welding. There will be classroom discussion of equipment, safety, and proper technique. The welding shop portion will include demonstrations of proper technique as well as plenty of practice time. Each section of the course will be limited to twelve journey workers.

| Date | Start Time | Location |
|-----------------|------------|----------|
| Dec. 9-11, 2019 | 7:00 A.M. | 1053 |
| Jan. 6-8, 2020 | 7:00 A.M. | 1053 |
| Feb. 3-5, 2020 | 7:00 A.M. | 1053 |

Shielded Metal Arc Welding 2

This is a 20-hour course focusing on out of position Stick (SMAW) welding. There will be classroom discussion of equipment, safety, and proper technique. The welding shop portion will include demonstrations of proper technique as well as plenty of practice time. Welds can also be tested. Each section of the course will be limited to 12 members.

| Date | Start Time | Location |
|------------------|------------|----------|
| Dec. 11-13, 2019 | 11:30 A.M. | 1053 |
| Jan. 8-10, 2020 | 11:30 A.M. | 1053 |
| Feb. 5-7, 2020 | 11:30 A.M. | 1053 |

Gas Metal Arc Welding (GMAW)

This is a 20-hour course designed to explain the various modes of weld transfer when using the GMAW process (short circuit, globular, spray and pulsed spray). Also included will be discussions involving power supplies, filler metal, weld troubleshooting, equipment maintenance, and the various gases used with the GMAW process. The students will be instructed in equipment set-up and adjustment along with the proper techniques used when welding with the GMAW process. We will demonstrate flat, horizontal, vertical and overhead welding techniques. The scope of this class will be the welding of mild steel. There will be a balance of classroom and hands-on training.

| Date | Start Time | Location |
|------------------|------------|----------|
| Jan. 13-15, 2020 | 7:00 A.M. | 1053 |
| Feb. 10-12, 2020 | 7:00 A.M. | 1053 |

Flux Cored Arc Welding (FCAW)

This is a 20-hour course designed to explain the set-up, adjustment, properties and techniques involved with the FCAW process. The students will use both FCAW-SS (self shielded) and FCAW-GS (gas shielded). Also included will be discussion involving power supplies, filler metals, weld troubleshooting, equipment maintenance and the gas requirements for FCAW-GS. We will demonstrate flat, horizontal, vertical and overhead welding techniques. There will be a balance of classroom and hands-on training.

| Date | Start Time | Location |
|------------------|------------|----------|
| Jan. 15-17, 2020 | 11:30 A.M. | 1053 |
| Feb. 12-14, 2020 | 11:30 A.M. | 1053 |

Drilling Classes



Exploratory Drilling Level 1

This 2 week course is designed to provide a program for operators to develop the skills needed to operate a Geotechnical drill rig for soil and rock exploration. Each student will demonstrate basic auger, mud rotary and rock coring drilling techniques. Material covered will include drill rig operation, different drilling methods, drilling method applications, safety, drill rig inspections, routine maintenance and systems trouble shooting.

| Date | Start Time | Location |
|------------------|------------|----------|
| Dec. 9-20, 2019 | 7:00 A.M. | 1143 |
| Apr. 13-24, 2020 | 7:00 A.M. | 1143 |

Exploratory Drilling Level 2

This course is designed to provide a program for operators with drilling experience to develop the skills needed to operate a Geotechnical drill rig using advanced techniques. Each member will demonstrate Denison soil coring, mud mixing, setting casing, angle drilling and rock coring drilling techniques. Material covered will include drill rig operation, drilling method applications, drilling safety instrumentation and grouting. 6 members max per class. *Prerequisites:* Exploratory Drill Level 1 or 1000 hours operating a geotechnical drill rig.

| Date | Start Time | Location |
|---------------------|------------|----------|
| Jan. 20-31, 2020 | 7:00 A.M. | 1143 |
| Apr. 27-May 8, 2020 | 7:00 A.M. | 1143 |
| May 18-29, 2020 | 7:00 A.M. | 1143 |

Introduction to Geothermal Drilling

This course is designed to provide a program for operators to develop the skills needed to drill and install ground loops for geothermal heating and cooling in residential and commercial ground exchange systems. Each student will demonstrate soils recognition, mud mixing, air rotary drilling, mud rotary drilling, down the hole hammer drilling, setting loops, and geothermal grouting. Material covered will include drilling safety, basic loop design, air and mud drilling methods, setting casing, loop placement and grouting techniques. *Prerequisites:* IGSHPA Accredited Loop Installer; proficiency on a drill rig.

| Date | Start Time | Location |
|-----------------|------------|----------|
| Apr. 6-10, 2020 | 7:00 A.M. | 1143 |

HDPE Pipe Fusion

This course is designed to provide a program for operators to develop the skills needed to build and install header systems (supply and return) for geothermal heat pumps. Each student will demonstrate basic trenching, pipe fusion, plan reading, pipe layout and fabrication techniques. Material covered will include: digging safety, basic header design, mechanical plan reading, pipe layout, and heat fusion welding techniques. Upon completion of the class, proficiency tests will be available in butt, socket, and saddle fusion of HDPE pipe.

| Date | Start Time | Location |
|------------------|------------|----------|
| Nov. 11-15, 2019 | 7:00 A.M. | 1143 |
| Mar. 2-6, 2020 | 7:00 A.M. | 1143 |

Introduction to Geothermal Systems *

This course was designed to provide a program for operators to develop the skills needed to work on geothermal loop field installation. Each student will be introduced to ground loop installation drilling and grouting techniques. Material covered will include:

types of heat exchanger systems, loop design, and thermal properties of geological formations. Upon successful completion of this class, students will receive accreditation from the International Ground Source Heat Pump Association (IGSHPA)

| Date |
|--|
| * Course will be offered on an as needed basis. Please contact ASIP to express interest. |

Drilling Mud and Solids Control Systems

The course is designed to assist in the development of skills related to the use of drilling fluids and grouts. Topics covered will be the importance of makeup water, drilling fluids for the water well geothermal and directional drilling industries, fluid testing, fluid troubleshooting, and geothermal and conventional grouting techniques and equipment. Students will be working with and handling the drilling fluid testing equipment, discussing past and current fluid technology, mixing and pumping thermally enhanced grout, and troubleshooting drilling fluid related issues.

| Date | Start Time | Location |
|----------------------|------------|----------|
| Oct. 28-Nov. 1, 2019 | 7:00 A.M. | 1143 |
| Feb. 17-21, 2020 | 7:00 A.M. | 1143 |

Horizontal Directional Drill - Level 1

This 80-hour class prepares our members for the “trenchless technology” that uses horizontal boring machines for utility work traditionally done with an excavator. This course will include instruction in the principles of directional boring, drilling fluids, pre-planning and set-up, along with hands-on instruction on a directional boring machine and locating devices. The directional boring operator shares all duties with a small crew, and these duties range from above-ground locating to various physical tasks to maintain, transport and operate the machine. The majority of these jobs require the member to also hold a valid CDL. **Note: 10 member max per class.**

| Date | Start Time | Location |
|----------------------|------------|----------|
| Nov. 11-22, 2019 | 7:00 A.M. | 1150 |
| Dec. 2-13, 2019 | 7:00 A.M. | 1150 |
| Jan. 20-31, 2020 | 7:00 A.M. | 1150 |
| Feb. 3-14, 2020 | 7:00 A.M. | 1150 |
| Mar. 9-20, 2020 | 7:00 A.M. | 1150 |
| Mar. 23-Apr. 3, 2020 | 7:00 A.M. | 1150 |

Horizontal Directional Drill - Level 2

This 80-hour class will expand on the principles of safe and productive operation included in the Level I Class and introduce the equipment, work methods and procedures made necessary by the new and innovative applications of the directional drill. Members will learn how to read blueprints regarding the installation of underground utilities and simulate this installation during the hands-on portion of the class. The hands-on training will include the use of back reamers, mixing and using fluids, setting vaults and drilling around exposed utilities. Applicants **MUST** be proficient on a directional drill and/or locator. The majority of these jobs require the member to also hold a valid CDL. **Note: 10 member max per class.**

| Date | Start Time | Location |
|----------------------|------------|----------|
| Jan. 6-17, 2020 | 7:00 A.M. | 1150 |
| Feb. 24-Mar. 6, 2020 | 7:00 A.M. | 1150 |
| Apr. 13-24, 2020 | 7:00 A.M. | 1150 |

Caisson Drill Rig Class

This 40 hour course will consist of classroom instruction and hands-on training. Classroom topics will include safety, the effects of various soil types on drill operations and all types of drilling procedures. The hands-on portion of the class will be done using a hydraulic caisson drill rig. Class size will be limited to 8 members.

| Date | Start Time | Location |
|------------------|------------|----------|
| Jan. 6-10, 2020 | 7:00 A.M. | 1143 |
| Jan. 13-17, 2020 | 7:00 A.M. | 1143 |

Construction Material Inspectors

Basic Knowledge Courses

ICC General Requirements Special Inspector

| Type | Date | Start Time | Location |
|------|---------------|------------|----------|
| Code | Nov. 9, 2019 | 7:00 A.M. | 2035 |
| Code | Dec. 13, 2019 | 7:00 A.M. | 2035 |
| Code | Jan. 31, 2020 | 7:00 A.M. | 2034 |

Introduction to Resume Building

This course provides members with the skills needed to create a professional resume. A review of proper layout, vocabulary / grammar, and maximizing potential will be discussed. Members will have a chance to create their own resume to be used in real life.

Date

** Course will be offered on an as needed basis. Please contact ASIP to express interest.*

Introduction to Interviewing Techniques

The course provides members with the tools and confidence for a professional interview with our signatory companies. A review of proper interview etiquette and vocabulary / grammar to use during an interview. Members will have an opportunity to perform mock interviews with instructors.

Date

** Course will be offered on an as needed basis. Please contact ASIP to express interest.*

Math 1 - Basic Math

This course will provide members with basic math skills that are used daily in the CBI program. This course will review: conversions, rounding and reporting, order of operations and word problems. Members will be given a practice exam at the end of the class to simulate taking timed exams.

| Date | Start Time | Location |
|---------------|------------|----------|
| Oct. 28, 2019 | 6:00 P.M. | 2034 |
| Nov. 2, 2019 | 7:00 A.M. | 2034 |
| Dec. 2, 2019 | 7:00 A.M. | 2034 |
| Jan. 13, 2020 | 7:00 A.M. | 2034 |

Math 2 - Fractions

This course will provide members with math skills regarding fractions that are used daily in the CBI program. This course will review: proper fractions, addition / subtraction of fractions, and averaging of fractions. Members will be given a practice exam at the end of class to simulate taking timed exams.

| Date | Start Time | Location |
|---------------|------------|----------|
| Oct. 29, 2019 | 6:00 P.M. | 2034 |
| Nov. 2, 2019 | 11:30 A.M. | 2034 |
| Dec. 2, 2019 | 11:30 A.M. | 2034 |
| Jan. 13, 2020 | 11:30 A.M. | 2034 |

Concrete Inspection Courses

Floor Flatness *†

Dates

* Course will be offered on an as needed basis. Please contact ASIP to express interest.

† This course is scheduled and offered by a 3rd party. Please contact ASIP for further information.

Post Tension Institute Unbonded PT Installer and Inspector - Level 1 & 2 *†

Dates

* Course will be offered on an as needed basis. Please contact ASIP to express interest.

† This course is scheduled and offered by a 3rd party. Please contact ASIP for further information.

Pre-Cast/Prestressed Concrete Institute Plant Quality Control Techniques *†

Dates

* Course will be offered on an as needed basis. Please contact ASIP to express interest.

† This course is scheduled and offered by a 3rd party. Please contact ASIP for further information.

Pre-Cast/Prestressed Concrete Institute Certified Field Auditor *†

Dates

* Course will be offered on an as needed basis. Please contact ASIP to express interest.

† This course is scheduled and offered by a 3rd party. Please contact ASIP for further information.

Prestressed/Post Tension Concrete Inspection *

This course will provide members with skills needed to perform field inspections for prestressed / post tension concrete inspection. The course will review: prestressed / post tension concrete inspection, basic blueprints, tendon inspection, and stressing of the tendon. *Prerequisite:* Reinforced Concrete Inspection

Date

* Courses will be offered on an as needed basis. Please contact ASIP to express interest.

ICC Pre-Stressed Concrete Special Inspector *

| Type | Date |
|--------------|---|
| Plan & Code* | * Courses will be offered on an as needed basis. Please contact ASIP to express interest. |

* Prerequisite for the Code class: Members must have taken the Prestressed/Post Tension Concrete Inspection and ICC Reinforced Concrete courses along with having a current ACI Concrete Field Testing Tech Grade 1 certification.

Reinforced Concrete Inspection

This course will provide members with skills needed to perform field inspections for reinforced concrete through a combination of classroom and hands on experience. The course will review: identifying reinforcing steel, basic blueprint reading, practice performing inspections on reinforcing steel. *Prerequisite:* ACI Concrete Field Testing Tech Grade 1

| Date | Start Time | Location |
|------------------|------------|----------|
| Oct. 28-29, 2019 | 6:00 P.M. | 2035 |
| Jan. 6, 2020 | 7:00 A.M. | 2035 |
| Feb. 17, 2020 | 7:00 A.M. | 2035 |
| Mar. 3, 2020 | 7:00 A.M. | 2035 |

ICC Reinforced Concrete Special Inspector

Plan

| Date | Start Time | Location |
|---------------|------------|----------|
| Nov. 2, 2019 | 7:00 A.M. | 2035 |
| Jan. 7, 2020 | 7:00 A.M. | 2035 |
| Feb. 18, 2020 | 7:00 A.M. | 2035 |
| Mar. 4, 2020 | 7:00 A.M. | 2035 |

Code

| Date | Start Time | Location |
|------------------|------------|----------|
| Nov. 4-8, 2019 | 6:00 P.M. | 2035 |
| Jan. 8-10, 2020 | 7:00 A.M. | 2035 |
| Feb. 19-21, 2020 | 7:00 A.M. | 2035 |
| Mar. 5-7, 2020 | 7:00 A.M. | 2035 |

**Prerequisite for the Code class: Members must have taken the Reinforced Concrete Inspection course and have a current ACI Concrete Field Testing Tech Grade 1 certification.*



Masonry Inspection Courses

Masonry Inspection

This course will provide members with skills needed to perform field inspections for masonry grout and mortar through a combination of classroom and hands on experience. The course will review: masonry construction, basic blueprint reading, grout sampling and inspection, and mortar sampling and inspection.

| Date | Start Time | Location |
|------------------|------------|----------|
| Nov. 11-12, 2019 | 6:00 P.M. | 2035 |
| Jan. 13, 2020 | 7:00 A.M. | 2035 |
| Feb. 24, 2020 | 7:00 A.M. | 2035 |
| Mar. 10, 2020 | 7:00 A.M. | 2035 |

ICC Structural Masonry Special Inspector

Plan

| Date | Start Time | Location |
|------------------|------------|----------|
| Nov. 13-14, 2019 | 6:00 P.M. | 2035 |
| Jan. 14, 2020 | 7:00 A.M. | 2034 |
| Feb. 25, 2020 | 7:00 A.M. | 2035 |
| Mar. 11, 2020 | 7:00 A.M. | 2035 |

Code

| Date | Start Time | Location |
|------------------|------------|----------|
| Nov. 18-22, 2019 | 6:00 P.M. | 2034 |
| Jan. 15-17, 2020 | 7:00 A.M. | 2034 |
| Feb. 26-28, 2020 | 7:00 A.M. | 2035 |
| Mar. 12-14, 2020 | 7:00 A.M. | 2035 |

**Prerequisite for the Code class: Members must have taken Masonry Inspection course. Reinforced Concrete Inspection course is recommended.*



Soils Inspection Courses

Soils - Classification

This course will provide members with skills needed to perform field inspections for soil classifications through a combination of classroom and hands on experience. The course will review: different soil classifications, visual manual procedure, unified soil classification procedure, both lab and field tests to determine soil properties.

| Date | Start Time | Location |
|------------------|------------|----------|
| Nov. 4-7, 2019 | 6:00 P.M. | 2034 |
| Dec. 3-4, 2019 | 7:00 A.M. | 2035 |
| Jan. 14-15, 2020 | 7:00 A.M. | 2035 |
| Feb. 10-11, 2020 | 7:00 A.M. | 2035 |

Soils - Field Inspection

This course will provide members with skills needed to perform field inspections for soil classifications through a combination of classroom and hands on experience. The course will review: different soil classifications, visual manual procedure, unified soil classification procedure, both lab and field tests to determine soil properties.

Prerequisite: Soils-Classification

| Date | Start Time | Location |
|------------------|------------|----------|
| Nov. 11-14, 2019 | 6:00 P.M. | 2034 |
| Dec. 5-6, 2019 | 7:00 A.M. | 2035 |
| Jan. 16-17, 2020 | 7:00 A.M. | 2035 |
| Feb. 12-13, 2020 | 7:00 A.M. | 2035 |

Shallow and Deep Foundation Inspection

This course will provide members with skills needed to perform field inspections for shallow and deep foundations through a combination of classroom and hands on experience. This course will review: foundation construction, basic blueprints, dimension verification, verifying soil bearing capacity, and soil classification. *Prerequisite:* Soils-Field Inspection.

| Date |
|---|
| <i>To be determined. Check asiplocal150.org</i> |

ICC Soils Special Inspector

Plan

| Date | Start Time | Location |
|---------------|------------|----------|
| Nov. 16, 2019 | 7:00 A.M. | 2035 |
| Dec. 9, 2019 | 7:00 A.M. | 2034 |
| Jan. 20, 2020 | 7:00 A.M. | 2034 |
| Feb. 14, 2020 | 7:00 A.M. | 2035 |

Code

| Date | Start Time | Location |
|------------------|------------|----------|
| Nov. 18-22, 2019 | 6:00 P.M. | 2035 |
| Dec. 10-12, 2019 | 7:00 A.M. | 2035 |
| Jan. 21-23, 2020 | 7:00 A.M. | 2035 |
| Feb. 17-19, 2020 | 7:00 A.M. | 2034 |

**Prerequisites for the Code class: Members must have taken the Soils-Classfication and Soils-Field Inspection courses.*

Structural Steel Inspection Courses

AWS- Certified Welding Inspector *†

Dates

** Course will be offered on an as needed basis. Please contact ASIP to express interest.*

† This course is scheduled and offered by a 3rd party. Please contact ASIP for further information.

High-Strength Bolting Inspection

This course will provide members with skills needed to perform field inspections on high strength bolts through a combination of classroom and hands on experience. This course will review: installation methods, inspection methods, material identification and verification as well as basic blueprint reading

| Date | Start Time | Location |
|------------------|------------|----------|
| Oct. 14-15, 2019 | 6:00 P.M. | 2035 |
| Dec. 2, 2019 | 7:00 A.M. | 2035 |
| Jan. 20, 2020 | 7:00 A.M. | 2035 |

ICC Structural Steel and Bolting Special Inspector

Plan

| Date | Start Time | Location |
|------------------|------------|----------|
| Oct. 16-17, 2019 | 6:00 P.M. | 2035 |
| Dec. 3, 2019 | 7:00 A.M. | 2034 |
| Jan. 21, 2020 | 7:00 A.M. | 2034 |

Code

| Date | Start Time | Location |
|------------------|------------|----------|
| Oct. 21-25, 2019 | 6:00 P.M. | 2035 |
| Dec. 4-6, 2019 | 7:00 A.M. | 2034 |
| Jan. 22-24, 2020 | 7:00 A.M. | 2034 |

**Prerequisite for the Code class: Members must have taken the High-Strength Steel Bolting Inspection course.*

Spray-Applied Fireproofing Inspection

This course will provide members with skills needed to perform field inspections on spray-applied fireproofing through a combination of classroom and hands on experience. This course will review: identifying materials, basic blueprints / submittals, thickness inspection, bond strength testing, adhesion / cohesion testing, and density testing.

| Date | Start Time | Location |
|---------------|------------|----------|
| Oct. 5, 2019 | 7:00 A.M. | 2035 |
| Dec. 9, 2019 | 7:00 A.M. | 2035 |
| Jan. 27, 2020 | 7:00 A.M. | 2034 |
| Feb. 24, 2020 | 7:00 A.M. | 2034 |

ICC Spray-Applied Fireproofing Special Inspector

| Type | Date | Start Time | Location |
|-------------|------------------|------------|----------|
| Code & Plan | Oct. 7-11, 2019 | 6:00 P.M. | 2035 |
| Code & Plan | Dec. 10-12, 2019 | 7:00 A.M. | 2034 |
| Code & Plan | Jan. 28-30, 2020 | 7:00 A.M. | 2034 |
| Code & Plan | Feb. 25-27, 2020 | 7:00 A.M. | 2034 |

**Prerequisite for the Code and Plan classes: Spray-Applied Fireproofing Inspection course.*

Welding Symbols

This course will provide members with skills needed to identify and interpret welding symbols. This course will review: joint types, identification of weld symbols and reading welding symbols.

| Date |
|---|
| <i>To be determined. Check asiplocal150.org</i> |

Welding Blueprints

This course will provide members with skills needed to understand and read weld symbols found on blueprints through a combination of classroom and hands on experience. This course will review: Structural blueprints, Fabrication Shop blueprints and Erector blueprints. *Prerequisite:* Welding Symbols course

| Date |
|---|
| <i>To be determined. Check asiplocal150.org</i> |

Welding Inspection

This course will provide members with skills needed to perform field inspections on structural welds through a combination of classroom and hands on experience. The course will review: identification of weld types, different inspection methods, basic blueprint, and inspection on welds. *Prerequisite:* Welding Blueprints course

| Date |
|---|
| <i>To be determined. Check asiplocal150.org</i> |

ICC Structural Welding Special Inspector

| Type | Date |
|-------------|---|
| Plan & Code | <i>To be determined. Check asiplocal150.org</i> |

**Prerequisites for the Code class: Members must have taken SMAW 1, GMAW 1 and Welding Inspection courses.*

Structural Blueprint Reading

This course will provide members with skill needed to navigate structural blueprints for several types of inspections in the field through a combination of classroom and hands on experience. This course will review: basic understanding of blueprint organization, symbols, notes, details, drawing views.

| Date | Start Time | Location |
|----------------------|------------|----------|
| Sep. 30-Oct. 4, 2019 | 6:00 P.M. | 2035 |
| Dec. 16-18, 2019 | 7:00 A.M. | 2035 |
| Jan. 6-8, 2020 | 7:00 A.M. | 2034 |
| Feb. 3-5, 2020 | 7:00 A.M. | 2035 |

Introduction and IDOT Courses

ASIP introduction courses give a general overview of inspection responsibilities and go over in depth some of the more challenging sections of the IDOT courses (calculations, charting, table, etc.). These courses are required prior to taking the IDOT courses and the schedule is pending on the IDOT course calendar. Please visit the ASIP website (www.asiplocal150.org) for availability and registration. Please see the below listed links to view the IDOT training schedule and contact ASIP to get registered for classes.

Introduction to Aggregate Technician

Introduction to Hot Mix Asphalt - Level 1

Introduction to Hot Mix Asphalt - Level 2

Introduction to Portland Cement Concrete - Level 1

Introduction to Portland Cement Concrete - Level 2

IDOT Documentation of Contract Quantities provided by Illinois Center for Transportation #

<https://ict.illinois.edu/outreach/documentation-training/>

IDOT QC/QA Training Courses provided by Lake Land College

<https://www.lakelandcollege.edu/idot-quality-management-training-program/>

IDOT S33 Soils provided by IDOT

<http://www.idot.illinois.gov/doing-business/material-approvals/soils/index>

Scheduling done by individual. Please see ASIP Class Reimbursement Policy prior to scheduling.

NOTES

MAP & DIRECTIONS

19800 West South Arsenal Road
Wilmington, IL 60481



Driving Directions:

From the North: Travel South on I-355. Exit onto I-55 South, and continue to Exit 241. Exit and travel East to Illinois Route 53. Turn left (North) and continue to W. Arsenal Road. Turn right (East). The Training Site will be on your left-hand side.

From the South: Travel North on I-55, and continue to Exit 241. Exit and travel East to Illinois Route 53. Turn left (North) and continue to W. Arsenal Road. Turn right (East). The Training Site will be on your left-hand side.

From the East: Travel West on Wilmington/Peotone Road to Old Chicago Road. Turn right (North) and continue to Quigley/Arsenal Road. Turn left (West). The Training Site will be on your right-hand side.

From the West: Travel East on I-80. Exit onto I-55 South, and continue to Exit 241. Exit and travel East to Illinois Route 53. Turn left (North) and continue to W. Arsenal Road. Turn right (East). The Training Site will be on your left-hand side.

WWW.ASIPLOCAL150.ORG

MANAGEMENT

LABOR





APPRENTICESHIP AND SKILL IMPROVEMENT PROGRAM

Local 150

CHICAGO DISTRICT

HOUSTON DISTRICT

ATLANTA DISTRICT



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Welcome to ASIP Local 150



Local 150's training center is situated on 300-plus acres in Wilmington, IL. The center boasts 342,000 square feet of space housing an indoor training area, almost 200 pieces of heavy equipment, 30 classrooms, construction material testing lab, state of the art welding facility, equipment simulator lab, a 200-seat auditorium, and much more. Instructors are available to members six days a week, Monday through Saturday, except holidays.

Local 150 offers four apprenticeship programs: Heavy Equipment Operator, Heavy Equipment Repair Technician, Geothermal/Well Driller, and Construction Material Inspector (Field Inspector). We are currently only accepting applications for Heavy Equipment Repair Technicians. To obtain an application, please go to any one of our [District Halls](#) with your valid driver's license and a \$25 money order to fill out a request for an application packet. See our [FAQ](#) for more information.

We will begin accepting applications for Heavy Equipment Operator, Geothermal/Well Driller and Construction Material Inspector (Field Inspector) during the Fall of 2019.



[Find us on Facebook](#)

[Check Application Status](#)

Site News

[Sky's the Limit Video](#)
[Guest Speaker at CCHS](#)
[100 Years of Struggle](#)
[Local 150 Legacy Brick Paver Program](#)
[Crane Cert Program](#)
[OSHA Alliance Program](#)

Quick Links

[Local 150 Website](#)
[Local 150 Legacy Brick Paver Program](#)
[Letters to the Site](#)
[OECF Test Dates](#)
[City of Chicago Crane License](#)
[April is Safe Digging Month](#)

James M. Sweeney
Chairman

David Snelten
Secretary

Brian Roland
Coordinator

19800 West South Arsenal Road
Wilmington, Illinois 60481

The apprenticeship website is available to all members and contains the following information:

- District Union Meeting dates and times
- Class listings with descriptions, prerequisites, dates, times and availability
- Equipment Availability and the option to view or cancel a reservation if needed
- OECF Information
- Additional News and Information
- Your own training records:
 - Transcripts
 - Site equipment usage
 - On the Job training summary
 - Dispatch history (*apprentices*)

Your personal contact information can also be changed here, though this will only affect your Training Site Records, as we do not share contact information with Dispatch.

To access these items, you must first create a login for yourself or call the training site to have one created. If the training site has your name, registration number, and date of birth on record, you may create your own login online. If we do not have this information or you have never used the training site, please call 815-722-3201 and we will gladly create a login for you.



Local 150 Legacy Brick Paver Order Form



Purchase a personalized brick paver to be installed in the Memorial Garden Walkway located at the:

William E. Dugan Training Center in Wilmington, IL

Paver Bricks are \$50 each and include:

3 Lines of Standard Text, 15 characters or Spaces per line, optional images to be placed as indicated on the layout area

Contact Name: _____

Address: _____

City: _____ **State:** _____ **Zip:** _____

Telephone: _____ **Email:** _____

Please make check payable in the amount of \$50.00 to: **Local 150 Apprenticeship Fund**. Drop off or mail order form to: **ASIP Local 150, 19800 W. South Arsenal Rd., Wilmington, IL 60481 Attn: Jill Eichelberger**

Payment Information

Check # _____ **Date Paid:** _____

Name as it appears on account: _____

Money Order # _____ **Date Paid:** _____

Name of Issuing Bank or Institution: _____

Please print the message as you would like it to appear on the brick paver. Illustrate upper and lower case (case will appear as it does on this form). 15 characters maximum per line unless an image is selected (grey areas cannot include text if an image is selected). Text will be standard size, font, and style. Please print clearly.

Images consume 4 to 6 characters on two of the lines.

| | | |
|---------|-----------------|-----------------|
| Line #1 | Image No. _____ | Image No. _____ |
| Line #2 | | |
| Line #3 | | |

I have proofread my imprint / message and approve it for production. I understand that Local 150 is not responsible for errors contained in the copy as it is submitted. Local 150 reserves the right to deny application and or content for any reason.

Signature: _____ Date: _____

Images below are available to be placed on your brick paver. Please indicate the image number in the grey area of the brick paver above that you would like image placed. Please note that size and location of images are approximate and may vary slightly.



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JOHN DEERE

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