



Seattle Area Pipe Trades

APPRENTICESHIP

FALL 2019

JOURNEYMAN & CONTINUING
EDUCATION SCHEDULE

coordinator's message

A new look...new information...and new Continuing Education courses! With the brick & mortar completion of our facility, we're now busy building out labs and classrooms that meet today's training needs, and evolve over time.

Our JATC assembled strategic teams of instructors, field experts and company leaders to design classrooms and curriculum at the same time. As a result, we're gearing up to offer more and new content to all members – Journeymen, MES, SPMs and Apprentices in blended class environments. Here's what you will start to see:

- ✓ More options for Continuing Education
- ✓ Shorter seminars focused on specific industry topics
- ✓ Vendor-driven certifications

We want to encourage all members to access Continuing Education. We are a lifelong-learning industry, and as leaders in the Mechanical Sector, we must remain committed to continual expertise in our respective crafts. No matter if you came up through apprenticeship or organized into the United Association, there's a place for you to engage with others in our Continuing Education courses.

You will see we're providing more information about Continuing Education, too. Watch your mail for this quarterly publication to see the latest offerings.

If you have ideas for course topics, guest speakers, or instructors, we want to hear from you. I can be reached at 425.271.5900 or pjmoss@seattlepipetrades.org.

In Solidarity,

P.J. Moss, Training Coordinator

what's NEW in 2019-2020

TECHNOLOGY COURSE EVOLUTION

We're working with industry experts to expand tech courses beyond AutoCAD. Over the next year, you will see classes featuring Trimble, Navisworks, Revit and Bluebeam. These offerings will take already tech proficient workers to the next level.

You must interview to be enrolled into Technology Courses. This ensures all students are placed into classes that match their competency. Call 425.271.5900 to be added to interview list.

Interviews for 2020 classes will be held on **Wednesday, November 20, 2019** in the evening.

Courses will be offered in series, and you must pass each course to progress.

FINANCIAL PLANNING WORKSHOPS

In conjunction with **UA Local 32** and **Milliman Benefits**, we're adding financial literacy and pension courses for whichever phase of financial planning you need.

SERVICE PLUMBING COURSE EXPANSION

We're reimagining how service plumber training can be delivered for apprentices. Our roadmap is a self-paced package offered through continuing education. This new, blended environment will mix apprentices into applicable courses. They will be enrolled into courses as they successfully complete the standard commercial plumbing program.

Additionally, we're phasing in a series of courses for journeymen and service plumber mechanics (SPM) who are looking for a la cart offerings.

VRF CERTIFICATIONS

We're connecting with leading factory representatives, such as Daikin, Mitsubishi and LG, to offer members cutting edge certifications. Watch for these special trainings by early 2020!

ECONOMICALLY DRIVEN ENVIRONMENTAL COURSES

Washington State law now require all Rainwater Catchment systems to be designed, installed and maintained by certified plumbers. Soon we will be offering ARCSA certifications to be workforce ready for this in-demand service– watch our winter schedule for further details!



service plumber training in continuing education

We're changing the way we deliver training today, in preparation for tomorrow.

Over the next two years, members will see new, shorter, and service-content classes and seminars added in the continuing education schedule.

The construction economy has surpassed historic highs in the Puget Sound. Even as building trades thrive, now is the time to take your service skills to the next level.

In partnership with **UA Local 32** and the **Mechanical Contractors Association of Western Washington**, Seattle Area Pipe Trades (SAPT) is developing a new series of courses designed especially for new and experienced service plumbers.

2019-2020 SERVICE COURSES

Backflow Prevention

Available this fall!

Backflow Professional Growth

Available this fall!

Electrical Troubleshooting for Plumbers

Available winter 2020!

Boiler Maintenance & Service for Plumbers

Available winter 2020!

Intro to Drain Cleaning

Coming in 2020!

Advanced Customer Service

Coming in 2020!



A PATHWAY FOR PLUMBER APPRENTICES

We enroll commercial plumber apprentices into service-based coursework, based on your goals and aptitude. You can complete an endorsement with the apprenticeship at your own pace.



JOURNEYMAN CONTINUING EDUCATION

We submit service-based curriculum to the State of Washington to make sure the courses you take count towards your licensure requirements.



SERVICE PLUMBER MECHANICS

Service Plumbing Mechanics can choose to enroll in apprentice courses as program space permits, or select from continuing education courses that fill gaps in their previous experience.

regularly offered courses | fall 2019

available now for enrollment

First Aid/CPR

If your First Aid card has expired or you have never had one, you must attend these classes covering basic first aid and life-saving skills. (4 hours of CEU for Plumber & Electrical Licenses)

FALL DATE: Saturday, October 5, 2019

UPC Upgrade

This course is a refresher to the theories & principles of properly installed plumbing systems. Each will be able to identify all components of plumbing systems with respect to design, function & current code application. (12 hours of CEU for Plumbers in either in-person or online course)

FALL DATES: Wednesdays, October 30 through November 20, 2019

Electrical Safety

This course combines theory study and hands on use of testers. Upon completion of the course each student will be able to identify the principals of electricity & solve minor field related problems. (4 hours of CEU for Plumber License).

FALL DATE: Wednesday, October 23, 2019

General Welding

Practice all of your welding skills from Beginning Arc to Advanced Arc. All welding process are offered – Arc, TIG, MIC, and Oxy-Ace Welding. The course objective is to prepare for WABO or UA tests.

FALL SHOP DATES: Tuesdays, September 3 through November 19, 2019

Service! Backflow Prevention Certification

This course will give you classroom instruction and hands-on training in the installation, service and repair and testing of backflow prevention devices. Each student will be given a state-monitored exam. [Registration/\\$50; Exam fee/\\$200; Book/\\$99.00](#) [Registration/Exam fees are non-refundable] (USC, AWWA materials) (12 Hours CEU for Plumbers)

FALL DATES: Thursdays, October 3, 2019 through January 9, 2020

Service! Backflow Professional Growth

Professional growth class for those that are preparing for the hands on test to maintain their BAT certificate. Course is one, 8-hour session in duration. The student will refresh skills to properly test the SPVA, PVBA, DCVA, and RPBA. Also, this course will apply Chapter 6 of the Uniform Plumbing Code requirements for their installation and maintenance. (4 hours of CEU for Plumbers)

FALL DATE: Saturday, October 12, 2019

Basic Electrical Theory

This course will help you understand electricity, and perform basic electrical calculations for everyday use. Basic understanding of motor and transformers is also covered. Students will be introduced to the important subject of how and why grounding works. This 48 hour course supports individuals with Electrical Trainee Cards.

FALL DATES: Tuesdays & Thursdays, October 22 through December 19, 2019

NEC Code

This is a refresher course on the state laws, regulations & the changes to the National Electrical Code as amended by the State of Washington. Has been approved by the state for CEU's toward electrical license renewal & Plumber Cont. Ed. (8 hours of CEU for Electrical License in either in-person or online course)

FALL DATES: Tuesday, October 15 & Thursday, October 17, 2019

OSHA 30 (Limited Space!)

A continuation of OSHA 10, this 30 hour course provides further instruction on construction industry safety & health topics for all construction personnel. Students receive certificates from OSHA. (4 hours of CEU for Plumbers)

FALL DATES:

Cohort One: Mondays, September 23, 30; October 7, 14, 21; two Saturdays: October 12 & 20, 2019

Cohort Two: Tuesdays, September 24; October 1, 8, 15 and 22; two Saturdays: October 5 & 19, 2019

courses by arrangement | fall 2019

scheduled by popular demand

Courses offered by arrangement are opened for registration when we have enough people on a waitlist, and instructor availability. If you do not respond to open enrollment notifications for waitlisted classes, you will be removed from the waitlist.

First Aid/CPR

If your First Aid card has expired or you have never had one, you must attend these classes covering basic first aid and life-saving skills. (4 hours of CEU for Plumber & Electrical Licenses)

General Welding

Practice all of your welding skills from Beginning Arc to Advanced Arc. All welding processes are offered - Arc, TIG, MIG, and Oxy-Ace Welding. The course objective is to prepare the student for the WABO or UA tests.

Variable Frequency Drives

This course familiarizes students with A/C motor theory, A/C Drive Theory, Square D Drive products, enclosures, and providing jobsite reference materials. (8 hours Electrical License CEU)

NFPA 70 E

Students will become familiar with the standards for electrical safety in the workplace and work with the NFPA 70E workbook and Ugly's electrical reference handbook. (4 hours of CEU for Electrical)

REGISTRATION IS EASY

425.271.5900

registrations@seattlepipetrades.org

seattlepipetrades.org

Conduit Bending

The students will become familiar with understanding how to select the correct tubing size for the number of conductors, as well as proper tube bending practices. (4 hours of CEU for Plumbers)

Basic Electrical Theory

This course will help you understand electricity, and perform basic electrical calculations for everyday use. Basic understanding of motor and transformers is also covered. Students will be introduced to the important subject of how and why grounding works. This 48 hour course supports individuals with Electrical Trainee Cards.

Intro to Trimble

This course is intended to introduce students to a Robotic Total Station and how to properly care for and use the equipment for laying out designated points of reference on construction sites.

Electrical Controls for CO2/R-744

This class will give the students information on CO2/R7-44 Refrigeration Systems for the development of troubleshooting electric controls within the system (8 hours of CEU for Electrical License)

Service! Backflow Prevention Certification

This course will give you classroom instruction and hands-on training in the installation, service and repair and testing of backflow prevention devices. Each student will be given a state-monitored exam. [Registration/\\$50; Exam fee/\\$200; Book/\\$99.00](#) [Registration/Exam fees are non-refundable] (USC, AWWA materials) (12 Hours CEU for Plumbers)

Service! Backflow Professional Growth

Professional growth class for those that are preparing for the hands on test to maintain their BAT certificate. Course is one, 8-hour session in duration. The student will refresh skills to properly test the SPVA, PVBA, DCVA, and RPBA. Also, this course will apply Chapter 6 of the Uniform Plumbing Code requirements for their installation and maintenance. (4 hours of CEU for Plumbers)

Equipment Grounding

This course will provide safety information on equipment grounding as it relates to the National Electrical Code (NEC) and the RCW / WAC for the state of Washington. Approved for 4 hours of electrical continuing education. (4 hours of CEU for Electrical License)

Washington State Rigging Qualifications

The student will have a basic understanding of sling and rigging hardware, and will become familiar with the limitations, practices, associated hazards and inspection requirements. The student will understand load calculations, center of gravity, effects of angles on rigging components, load turning, knots and tag line use, chain and lever action hoists, and winch, block and basic hand signals. (4 hours of CEU for Plumbers)

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NEC Code

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Signal Person Qualifications

This course will convey the knowledge and standards required for the safe operation of mobile and tower cranes. Students will be given a written and practical exam by the NCCCO. (4 hours of CEU for Plumbers)

UPC Upgrade

This course is a refresher to the theories & principles of properly installed plumbing systems. Each will be able to identify all components of plumbing systems with respect to design, function & current code application. (12 hours of CEU for Plumbers in either in-person or online course)

Electrical Safety

This course will provide safety information on equipment grounding as it relates to the National Electrical Code (NEC) and the RCW / WAC for the state of Washington. (4 hours of CEU for Plumbers)

RCW/WAC

This course will provide safety information on equipment grounding as it relates to the National Electrical Code (NEC) and the RCW / WAC for the state of Washington. (4 hours of CEU for Electrical License in either in-person or online course)

UA Medical Gas Certification

PREREQUISITE: UA 51 Weld Certification

This course focuses on the proper procedures & requirements needed to successfully install or retrofit a Med Gas System. You must pass a written & brazing exam to be UA certified. (12 hours Plumbers CEU) Registration/\$50; Exam/\$116; Book \$79.39 [Registration/Exam fees non-refundable]. **NOTE:** If your Med Gas card has lapsed with the state of Washington, you must take the exam with Washington State Department of Labor & Industries to renew it, rather than take the NITC test.

online options

available anytime | fast registration | no cost

NFPA 70 E

Students will become familiar with the standards for electrical safety in the workplace and work with the NFPA 70E workbook and Ugly's electrical reference handbook. (4 hours of CEU for Electrical)

Equipment Grounding

This course will provide safety information on equipment grounding as it relates to the National Electrical Code (NEC) and the RCW / WAC for the state of Washington. (4 hours of CEU for Electrical License)

NEC Code

This is a refresher course on the state laws, regulations & the changes to the National Electrical Code as amended by the State of Washington. (8 hours of CEU for Electrical License in either in-person or online course)

UPC Upgrade

This course is a refresher to the theories & principles of properly installed plumbing systems. Each student will be able to identify all components of plumbing systems with respect to design, function & current code application. (12 hours of CEU for Plumbers in either in-person or online course)

Electrical Safety

This course will provide safety information on equipment grounding as it relates to the National Electrical Code (NEC) and the RCW / WAC for the state of Washington. (4 hours of CEU for Plumber License in either in-person or online course)

RCW/WAC

This course will provide safety information on equipment grounding as it relates to the National Electrical Code (NEC) and the RCW / WAC for the state of Washington. (4 hours of CEU for Electrical License in either in-person or online course)

Intro to Variable Frequency Drives

Student will learn electrical basics, electrical motor theory, electronically commutated motors (ECM's) and an introduction to Variable Frequency Drives, and their usage in the HVAC/R Industry. In addition, the participant will learn electrical safety and some of the inherent dangers of Electronics and VFD Drives. (4 hours of CEU for Electrical License)

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continuing education requirements

Plumber

All Journey Level and Residential Specialty Plumbers must obtain 16 hours of continuing education within a 2-year renewal cycle:

- A minimum of 8 hours of Plumbing Code (Code); plus
- A minimum of 4 hours Industry-Related Electrical (IRE); plus
- 4 additional hours from Code, IRE, or Industry-Related Plumbing.

All Pump and Irrigation & Domestic Pump Plumbers must obtain 24 hours of continuing education with a minimum of 12 hours plumbing or combination classes within a 3-year cycle.

Electrical

Master Electrician or Electricians are required to complete 24 hours of continuing education within three years of certification renewals:

- 8 hours of CEUs must be on currently adopted National Electrical Code changes; and
- 4 hours must be on currently adopted Revised Code of Washington (RCW) 19.28 and related Washington Administrative Code (WAC).

The remaining 12 hours of continuing education credit can be chosen from the list of approved courses through Washington State Department of Labor & Industries (indicated as CEUs on this schedule).

weld testing & continuities | fall 2019

How to Register

You must be registered no later than one week prior to a test date. Space is limited for all tests, and we cannot accommodate walk-ins at this time. If you arrive late for a test, you will not be tested. Additionally, there are fees associated with testing that must be paid in advance:

- WABO costs \$55 and must be paid by check or money order payable to WABO AFTER X-Ray Results
- Med Gas Braze costs \$74, or \$50 for re-qualification, and must be paid at time of registration –**JA 51 is PREREQUISITE FOR TAKING MED GAS CLASS AS OF FALL 2019**

Fall 2019 Weld Test Dates & Times

- Saturday, September 21, 2019 begins at 8:00am
- Saturday, October 19, 2019 begins at 8:00am
- Saturday, November 16, 2019 begins at 8:00am
- Saturday, December 14, 2019 begins at 8:00am

Fall 2019 Continuities Dates & Times

- Wednesday, September 4, 2019 begins at 2:30pm
- Wednesday, October 2, 2019 begins at 2:30pm
- Wednesday, November 6, 2019 begins at 2:30pm
- Wednesday, December 4, 2019 begins at 2:30pm

pipe trades technology courses

**We're updating content to match
industry practice.**

Software used to design, build and maintain our systems changes rapidly. There is a greater expectation that it can be used at the jobsite. As more companies switch to Navisworks, Bluebeam and REVIT, Seattle Area Pipe Trades will offer courses to introduce these programs.

Course Levels in 2020

INTRODUCTION TO TECHNOLOGY

This will be the perfect fit for workers who are looking for essential skills to navigate technology onsite, particularly for job planning.

UA ADVANCED TECHNOLOGY SERIES

These courses are being developed for individuals who are already proficient with technology. You must be interviewed by our tech team to be enrolled in this series. This way, we can ensure all learners are prepared for in-depth content. Students must pass each level to progress in this series.

Technology Course Schedule

**MANDATORY Technology Interviews –
Wednesday, November 20, 2019 from
5pm to 9pm.**

You must schedule an interview with our tech team if you want to enroll in the UA ADVANCED TECHNOLOGY SERIES. Not required for people who only want Intro to Tech class.

Courses will begin in 2020!



Finding the right fit for you

We're structuring entrance into technology courses with a team of field experts who will assess tech skills, and help us place you into the right class.

Everyone who wants to take technology classes will need to be interviewed by this team. See *schedule on this page.*

Make sure you schedule your technology interview for 2020 classes by calling 425.271.5900.

