

2025 REGIONAL TRAINING COURSE CATALOG

TRAINING THAT'S PREPARING US FOR THE FUTURE



INTERNATIONAL
TRAINING FUND

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November, 2024

Dear Brothers and Sisters,

The United Association (UA) Education and Training Department recognizes the importance of training and our role in advancing higher education in the trades. With the help of our partners at Washtenaw Community College and UA local unions, we are excited to offer various options for the 2025 Regional Training schedule. The International Training Fund (ITF) is immensely proud of the hard work that UA instructors put into making every year a productive and enriching learning experience, which is proving vital for North America's workforce.

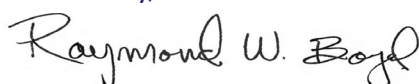
Throughout the year, the UA Education and Training Department works to adapt and provide instructors with advanced industry training opportunities, continuously striving to offer relevant and accessible training. As in previous years, a selection of courses is available for each trade sector. Courses are available throughout the year at various Local Union Training Centers, online, at the UA's Great Lakes Regional Training Center at Washtenaw Community College, and industry-specific locations across the United States. Courses will be updated throughout the year, including those few courses with dates yet to be determined. Because we understand the need, we are offering several co-ordinator and professional courses online throughout the year. We encourage you to review the complete course list so that your instructors may increase their expertise. Please utilize the "Program Information" tab on the Registration page to stay up to date.

All courses require a minimum number of students in attendance to warrant holding them, and course cancellations for low enrollment may come as early as three months before the start date. Therefore, we encourage you to register early and contact our office if you have any questions regarding the course status. Please refer to the final course confirmations before making travel arrangements, which will generally come by email at least one month before the course start date. Any questions can be directed to the Registrar's Office at 410-269-2009 or UARegistrar@uanet.org.

Please also remember that we will need all Training Directors and registrants to notify us when they learn that a withdrawal is needed. Failure to do so may impact their ability to register for future classes, as course funding relies on an accurate roster count.

We welcome your participation in our Regional Training and look forward to seeing you in Ann Arbor at the UA's 2025 Instructor Training Program!

Fraternally,



Raymond W. Boyd
Director of Education and Training

OUR MISSION STATEMENT

The mission of the UA Education and Training Department is to equip United Association locals with educational resources for developing the skills of their apprentices and journeymen. By thus facilitating the training needs of the membership, we maximize their employability and prepare them for changes in the industry. We are committed to making training opportunities available across North America, allowing members to acquire new skills and remain competitive in the industry regardless of geography. In this way, we are determined to meet the needs of the piping industry and enhance employment opportunities for our members, while remaining fiscally responsible to the beneficiaries of the fund.

“The procedures, policies, and course offerings set forth in this catalog are subject to revision from time to time. It will be updated on a regular basis to the most up-to-date versions of the policies, procedures, and course offerings and accessed at uanet.org.”

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ABOUT REGIONAL TRAINING

The International Training Fund provides local union instructors with the educational resources they need to complete their goals of workforce development in the piping industry, along with maintaining the highest standards of excellence for United Association apprentices and journeymen.

The International Training Fund offers a number of regional training opportunities throughout the year. These courses are offered at various local union training centers, online, at the Great Lakes Regional Training Center, Ann Arbor, MI, the UA Headquarters, and industry-specific locations.

Course Registration

Course registration is available online at <https://uanet.org>. Select Regional Training Registration to begin the five-step registration process.

- Step 1. Contact your local union training coordinator in order to register.
- Step 2. Click Begin Registration at the bottom of the page. You will then fill in all required fields that are highlighted in red.
- Step 3. Select courses using the Click Here to Add a Class link. A window will open with a list of courses. You can scroll through the list or search by course number, title, date, location or status (open or closed).
- Step 4. Enter any special requests that you may have. If there are none, leave this field blank.
- Step 5. Review your information and confirm it is correct. If so, proceed to Register at the bottom of the page. You will be asked to confirm your registration by clicking OK. This will complete the registration process.

Certification Fees

All certification course fees are the responsibility of the student. Fees are due prior to the beginning of the class; upon registration for a class, due dates will be provided. Listed below are the fee rates:

Medical Gas Certification Fees:

(Payable to NITC)

Contact Renee Yount at 877-457-6482

Certification = \$130.00

Recertification = \$60.00

STAR Exam Fees:

(Payable to NITC)

Contact Renee Yount at 877-457-6482

Certification = \$150.00

Recertification = \$100.00

SAFETY REQUIREMENTS FOR PERSONAL PROTECTIVE EQUIPMENT (PPE)

Students must bring their own welding hood, welding jacket, and welding gloves. **These items will not be supplied.** Safety equipment and protective clothing are required for all shop classes. Safety requirements will be strictly enforced. Any student who fails to meet these safety requirements will not be permitted to participate in the activity and may be removed from class. If you are not sure of the requirements, ask your instructor.

Eye Protection

Eye protection conforming to ANSI Z87.1-2015 shall be used as primary protection. **Safety glasses are required in all shop classes and will be provided.** Prescription safety glasses with side shields must also be ANSI Z87.1 compliant. Over-glasses may be worn over prescription eyewear in lieu of prescription safety glasses.

Face Protection

Face shields shall be used as secondary protection over safety glasses when the task requires it. In addition, an arc-rated face shield and hardhat may be required for tasks where arc flash or arc blast hazards may exist in accordance with NEC 70E-2024.

Welding Hoods

Welding hoods and head covering must meet industry standards and be approved by the faculty instructor. **You must bring a welding hood for welding classes.**

Hand Protection

Task-specific gloves appropriate for hot work or working with sharp objects **must be worn for all shop classes** and approved by the faculty instructor. Hand protection may also include dielectric gloves with leather protectors for tasks requiring shock protection as required by NEC 70E-2024.

Foot Protection

Sturdy work boots or shoes made of leather or similarly strong materials are required to be worn in all shop classes. Sneakers or sandals are not permitted.

Protective Clothing

Sturdy long sleeve shirts and long pants are required in all shop classes. Shorts are not permitted. In addition, arc-rated protective clothing may be required for the task being performed in accordance with NEC 70E-2024.

GRADUATION REQUIREMENTS

Listed below are the graduation requirements for the two certificate programs offered by the UA.

200-Hour Instructor Certificate Program

To receive the UA Instructor Training Certificate, UA instructors must successfully complete a total of 200 credit hours. This includes 100 hours of required professional courses and 100 hours of elective courses.

Professional Courses

1001 (101)	Planning, Teaching, and Assessing Effective Lessons: Beginning
1002 (102)	Planning, Teaching, and Assessing Effective Lessons: Intermediate
1003 (103)	Planning, Teaching, and Assessing Effective Lessons: Advanced
1004 (104)	Developing and Presenting Effective Lesson Plans
1010 (510)	Public Speaking (It is recommended to take 1002 and 1010 in the second year.)

Courses in parentheses denote former course numbers that count towards the requirement.

Plus 100 Credit Hours of Elective Courses

Coordinator courses (9000-series, 2100-2106) do not count toward the Instructor Certificate Program.

120-Hour Coordinator Certificate Program

To receive a certificate of completion, attendees must complete 120 credit hours comprising of the three required and three elective coordinator courses. Those who satisfactorily complete the program will be conferred the title Certified Coordinator of Journeyworkers and Apprentices in the Plumbing and Pipe Fitting Industry.

Three Required Courses

9001 (705 or 90)	Apprenticeship Standard Guidelines
9002 (701, 707, or 91)	Administration of a Jointly Managed Training Program
9003 (702 or 706)	Understanding Legal Issues and Fiduciary Responsibilities

Courses in parentheses denote former course numbers that count toward the requirement.

Plus Three Coordinator Electives (see next page)

Three Coordinator Electives

2008 (520)	Labor History and the UA, Part One: 1800 to 1920
2009 (521)	Labor History and the UA, Part Two: 1920 to Present
2010 (522)	Labor History I and II
2100 (237)	Adapting Apprenticeship to the 21st Century Student
2101 (372)	Financial Literacy for Apprentices
2102 (374)	Expanding Your Range When Recruiting
2105	Addressing Diversity, Equity, and Inclusion in Apprenticeship
2106	Recruitment Resources and Strategies
2171	Introduction to Peer Support Skills and Mental Health Literacy
2172	Advanced Skills in Suicide Prevention Training, Peer Support Skills, and Mental Health Literacy
3006 (373)	Preparing for Digital Literacy
9000 (700)	Administration of a Training Program for New Training Coordinators
9004 (703)	Managing Financial Operations of a Training Program
9005 (704)	Enhancing Training Through the Use of UA Applications
9006 (710 or 97)	Addressing Barriers to Apprentice Success
9007 (711)	Veterans in Apprenticeship
9008 (712)	Using the Multi-Craft Core Curriculum (MC3)
9009	Internal and External Communication for Training Directors
9010	Apprentice Selection Procedures - Interview Selection Process
9100 (708)	Apprenticeship Development Canadians
9101	Canadian Coordinator Program
9102	Canadian Welder Assessment Program
9103	Canadian Coordinators Union Training Innovation Program
9105	UA Canada Training Director/Coordinator Program
9106	UA Canada and CWBi Acorn Welding Program

CONTINUING EDUCATION

UA Programs at Washtenaw Community College

Washtenaw Community College (WCC) educational partnership with the UA provides members with certificate and associate degree opportunities. As a benefit of the United Association/Washtenaw Community College partnership, UA instructors will receive college credit for their coursework completed at the Instructor Training Program. These credits can be used to earn an associate degree. Additional degree requirements can be completed through WCC's online courses or transferred in from other higher-learning institutions.

To earn an associate degree, instructors will need to complete the following:

- UA Apprenticeship since August 1, 2000 or the UA STAR® exam..... 45 Credits
- UA Instructor Certification..... 15 Credits*
- General Education Requirements..... 13-31 Credits

Washtenaw Community College's Online Courses

With more than 150 online courses, WCC offers you the general education courses that you need to finish your associate degree. Most courses are transferable to a four-year college or university. If you have completed prior college, the credits may also be transferable to WCC toward the associate degree.

Online education offers you the opportunity to study whenever it fits into your life—whether that's at five a.m. before the kids wake up, on your lunch hour, or for a few hours at night. Online education allows you to fit education into your life instead of reorganizing your life around education.

Online learners do need to be independent, motivated, and self-starters. Online courses do have deadlines. You can access your course information at any time, as long as you have a Windows PC or equivalent Mac computer with a high-speed Internet connection.

Please contact Kandi Jurek at WCC Student Services with any questions.

Kandi Jurek, Manager, UA Programs

Telephone: 1-888-232-5476

Email: kjurek@wccnet.edu

Website: <https://www.wccnet.edu/learn/departments/uasd/>

* Some Regional courses may not be applied towards a WCC associate degree. Please contact Kandi Jurek with any questions.

A minimum of 80 professional development hours (PDHs) must be earned (training received or instruction delivered) during the nine-year certification period, and 20 of the 80 PDHs must be earned in the final three-year period of your nine-year certification period.

Instructors who want to substitute teaching hours for the required PDHs shall submit documentation of the hours of training performed. Such documentation shall include a complete syllabus of subjects taught, a copy of the certificates of attendance or completion issued, the number of students attending, the dates of the training provided, and documentation that the training was a formal offering and not personal coaching, tutoring, or individual instruction delivered to meet job requirements.

A maximum of 80 PDHs are allowed for any one course.

Credit for a particular course may only be granted once in a nine-year period. For example, a single 40-hour course taught any number of times can only be used to fulfill 40 hours of the 80 hours required for recertification without examination.

Trainers who want to substitute teaching hours for the required PDHs shall submit documentation of the hours of training performed. Such documentation shall include a complete syllabus of subjects taught, a copy of the certificates of attendance or completion issued, the number of students attending, the dates of the training provided, and documentation that the training was a formal offering and not personal coaching, tutoring, or individual instruction delivered to meet job requirements. For more information, please visit <http://www.aws.org>.

UA Courses Acceptable for Use as PDHs:

Endorsements

You can take an endorsement exam to recertify during the six months prior to your expiration date. Passing one of these exams meets the requirements for recertification. Endorsements require passing a two-hour exam on one of the following:

Endorsements Eligible for Nine-Year Recertification Credit

AWS D1.1 Structural Steel	ASME Section IX, B31.1 and B31.3
AWS D1.2 Structural Aluminum	Boiler and Pressure Vessel
AWS D1.5 Bridges	ASME Section VIII, Div. 1 and Section IX
AWS D15.1 Railroad	Boiler and Pressure Vessel
AWS D17.1 Aerospace	Structural Drawing Reading
API 1104 Pipelines	

Or 80 Hours in the Following

Arc Welding Practical Fundamentals and Theory
Applied Metallurgy
Piping Codes for Industrial Work
Orbital Tube Welding Oxy-Fuel Cutting and Welding
Advanced Orbital Welding
Teaching Orbital Welding
Machine Cutting, Severing, and Beveling
ASME Section B31.1 Code
Methods in Teaching Downhill Welding
Teaching Shielded Metal Arc Welding (SMAW)
Innovative Welding Techniques
Emerging Welding Technologies
Teaching Gas Tungsten Arc Welding (GTAW)
Radiographic Film Interpretation
ASME Section IX Welding Code
Advanced Gas Tungsten Arc Welding (GTAW)

TIP TIG® Wire Feed Welding Process
Advanced Shielding Metal Arc Welding (SMAW)
Advanced Gas Metal Arc Welding (GMAW)
Authorized Testing Representative Refresher
Authorized Testing Representative
OSHA 500
Certified Wire Feed Machine Orbital Welding
Orbital Wire Feed Remote Video Welding Systems
AWS CWI Preparation
Principles of Arc Welding Processes, Welder and Weld
Process Qualification, and Metallurgy NPE (OSU)
Weld Metallurgy, Defects, and Discontinuities for Process
Piping Material (OSU)
NDE for Process Piping (OSU)
Principles of Welding Processes and Welding Design (OSU)
Principles of Welding Design (OSU)

UA/EPRI Industrial Rigging & Signalperson Certification Prerequisites to Registering

The United Association (UA), in association with the Electrical Power Research Institute (EPRI), established the Industrial Rigging and Signalperson Examination/Certification Program. The program's major emphasis is the UA's commitment to continually improving the methods of training and qualifying its members.

With this commitment in mind, members registering to take the UA/EPRI Industrial Rigging and Signalperson Certification Examination course, *5011 Industrial Rigging Certification for Instructors*, must have completed the 20-hour UA training course, *5009 Industrial Rigging Technologies*. This course ensures that individuals are trained in the planning and precautions required when lifting materials and equipment, proper and safe rigging of loads, proper applications of slings and rigging hardware, advantages and disadvantages of each piece of rigging gear, uses of rigging hardware, determination/calculations of rigging loads and equipment; proper maintenance of rigging equipment, and rigging personal protective equipment.

The UA/EPRI Industrial Rigging and Signalperson Certification Examination consists of a multiple-choice written examination and a hands-on performance examination developed under the strict requirements of the EPRI-Standard Task Evaluation Program. The written examination requires a score of 80% or above. During the performance examination, individuals must plan and execute a critical lift utilizing a complicated piping assembly and perform a load inversion and load transfer. To pass, all elements of the hands-on performance examination must be completed satisfactorily.

Implementing these changes to the UA/EPRI Industrial Rigging and Signalperson Certification Program continues the United Association's commitment to ensuring that the best trained and qualified personnel are available for all future rigging requirements in the construction industry.

COURSE DESCRIPTIONS

NOTE: PLEASE SEE "REQUIRED TEXT & MATERIALS LIST" PAGE 26 FOR ANY REQUIREMENTS

NOTE: SOME REGIONAL COURSES MAY NOT BE APPLIED TOWARDS A WCC ASSOCIATE DEGREE - PLEASE REFER TO PAGE 8.

12 Medical Gas Refresher Endorsement

Students must bring a laptop.

The class will focus on material gathered from the 2024 NFPA 99. To ensure a successful experience, please confirm your instructor has the appropriate edition for the code before enrolling. The class will be conducted on Zoom or a similar online platform; information and links will be forwarded to your instructor as we get closer.

Additional Recommendations:

While this endorsement satisfies the recertification hour requirement, instructors are strongly encouraged to enroll in the 4012 course at the 2025 Instructor Training Program. The ITP course provides a more comprehensive learning experience with 20 hours of content, compared to the 5 hours offered in this online session.

February 18 - 20

5:00p - 7:45p

Online (Zoom)

1001 Planning, Teaching, and Assessing Effective Lessons: Beginning

Students must bring a laptop.

In this course, students will identify the fundamentals of effectively teaching adult learners through course lesson planning while recognizing and accommodating different learning styles. Students will establish a culture of inclusive learning to promote a barrier-free educational experience and structured learning atmosphere through routines and procedures, fostering a culture of shared accountability for course learning outcomes. Students will create a lesson plan with clear objectives, assessments, and the steps involved. Students should bring course materials for a course that will be taught at the local. If an instructor does not have a specific teaching assignment, work with the local union training coordinator to select a course that will be taught in the future and bring those materials.

November 6 - December 18

6:30p - 9:30p (Thursdays)

Online (Zoom)

1002 Planning, Teaching, and Assessing Effective Lessons: Intermediate

Students must bring a laptop.

Prerequisite: 1001 Planning, Teaching, And Assessing Effective Lessons: Beginning

In this course, students will learn to enhance engagement and accommodate diverse learning styles by integrating open-ended questions and visual aids within lesson plans. Focusing on crafting open-ended questions, incorporating visual aids, activating prior knowledge, aligning objectives with Bloom's Taxonomy, implementing effective instructional strategies, assessing learning outcomes, planning group work, and integrating group work into lesson plans. Students will create a comprehensive lesson plan incorporating these pedagogical approaches to foster collaborative, critical thinking focused learning experiences. Students should also bring course materials for a course that they expect to teach following Course 1002.

February 5 - March 19

6:30p - 9:30p (Wednesdays)

Online (Zoom)

February 6 - March 20

6:30p - 9:30p (Thursdays)

Online (Zoom)

1003 Planning, Teaching, and Assessing Effective Lessons: Advanced

Students must bring a laptop.

Prerequisite: 1002 Planning, Teaching, And Assessing Effective Lessons: Intermediate

In this course, students will explore interactive teaching methods designed to empower educators with the tools to craft engaging lesson plans that foster student collaboration. Through practical exercises and discussions, participants will learn to integrate interactive teaching strategies, construct purpose-driven assessment rubrics, and adapt trade-specific vocabulary to align with curriculum standards. Students will develop a comprehensive lesson plan, an assessment rubric, and a teaching outline enriched with interactive elements and tailored vocabulary. As in Course 1001 and Course 1002, instructors should have specific lesson plans and assessments to use in teaching at their local union. Students should also have materials for a course they expect to teach.

February 6 - March 20

6:00p - 9:00p (Thursdays)

Online (Zoom)

COURSE DESCRIPTIONS

NOTE: PLEASE SEE "REQUIRED TEXT & MATERIALS LIST" PAGE 26 FOR ANY REQUIREMENTS

NOTE: SOME REGIONAL COURSES MAY NOT BE APPLIED TOWARDS A WCC ASSOCIATE DEGREE - PLEASE REFER TO PAGE 8.

1004 Developing and Presenting Effective Lesson Plans

Students must bring course materials to create or redesign a course.

Students must bring a laptop.

In this course, students will create a comprehensive course syllabus and construct effective lesson plans. Through a blend of theoretical frameworks and practical applications, participants will learn to craft a syllabus that articulates clear course descriptions, outlines specific learning outcomes, delineates objectives, and establishes assessment criteria. Moreover, they will develop the ability to design five consecutive lesson plans with precise objectives, engaging instructional activities, and authentic assessments, fostering an environment where students are empowered to take ownership of their learning journey.

March 18-April 29	6:00p-9:00p (Tuesdays)	Online (Zoom)
May 1-June 3	6:00p-9:00p (Tuesdays)	Online (Zoom)

1020 Effective Instructional Practices and Coaching

Students must bring a laptop.

Effective instructional practices involve using evidence-based strategies to design and deliver instruction that supports student learning. This includes using formative assessments to inform instruction, providing clear and specific feedback, setting clear learning goals and objectives, and differentiating instruction to meet the needs of learners. Coaching is an important component of effective instruction, as it helps instructors to continuously reflect on their practice, set goals, and make improvements. Coaching will provide support, guidance, and resources to help instructors implement effective instructional practices, and will work with instructors to set goals and track progress. Additionally, coaching is a great way to build a culture of professional development and collaboration among instructors, which can lead to improved student outcomes.

2150 OSHA 510 OSHA Standards for the Construction Industry

Students must bring a laptop.

This course, the prerequisite for course 2151, OSHA 500, covers construction safety and health principles and OSHA policies, procedures, and standards as they apply to the construction industry. Topics also include the scope and application of the OSHA construction standards. Special emphasis is placed on those areas that are the most hazardous, using OSHA standards as a guide. **Please note that five years (60 months) of safety-related construction work history and responsibilities are required for the OSHA 500.** An OSHA 510 certificate is valid for seven years.

February 24-28	10:00a - 4:30p	Online (Zoom)
May 12-15	8:00a - 5:00p	WCC-Ann Arbor, MI
July 14-17	8:00a - 5:00p	WCC-Ann Arbor, MI
September 29-October 2	10:00a - 4:30p	Online (Zoom)
December 8-12	10:00a - 4:30p	Online (Zoom)

2151 OSHA 500 Trainer Course in Occupational Safety and Health Standards for Construction

Prerequisite: 2150, OSHA 510 OSHA Standards for the Construction Industry, five years of construction work experience.

Students must bring a laptop.

Please reference the OSHA Trainer Reauthorization Change, effective January 1, 2019. Students must be approved to attend by CPWR. Contact the UA Registrar's Office for details on the approval process. Upon successful completion, this course authorizes UA instructors to teach the OSHA 10-hour and the OSHA 30-hour construction safety and health outreach programs at their respective locals. Special emphasis is placed on adult learning principles and training techniques to identify, define, and explain construction industry hazards and acceptable corrective measures as required in the programs using 29 CFR 1926 OSHA Construction Standards as a guide. This course also covers the effective use of electronic visual aids and handouts. Each participant will receive a certificate card acknowledging that they have completed the required training to be designated as an OSHA Authorized Construction Trainer by OSHA Outreach Training Program requirements.

COURSE DESCRIPTIONS

NOTE: PLEASE SEE "REQUIRED TEXT & MATERIALS LIST" PAGE 26 FOR ANY REQUIREMENTS

NOTE: SOME REGIONAL COURSES MAY NOT BE APPLIED TOWARDS A WCC ASSOCIATE DEGREE - PLEASE REFER TO PAGE 8.

2151 OSHA 500 Trainer Course in Occupational Safety and Health Standards for Construction (con't)

March 3-7	8:00a-5:00p	WCC-Ann Arbor, MI
June 16-20	8:00a-5:00p	WCC-Ann Arbor, MI
October 13-17	8:00a-5:00p	WCC-Ann Arbor, MI
December 8-12	8:00a-5:00p	WCC-Ann Arbor, MI

2152 OSHA 502 Update for Construction Industry Outreach Trainers

Prerequisite: 2151 OSHA 500 Trainer Course for the Construction Industry

Students must bring a laptop.

Please reference the OSHA Trainer Reauthorization Change, effective January 1, 2019. Students must be approved to attend by CPWR. Contact the UA Registrar's Office for details on the approval process. This course is designed for instructors who have completed OSHA 500. OSHA requires that these instructors stay current on OSHA standards, and they must take OSHA 502 every four years to maintain their status. Course participants will receive updates on topics including OSHA construction standards, policies, and regulations. Participants who successfully complete the course will receive a completion card acknowledging that they have completed the required training to continue as OSHA-Authorized Construction Trainers in accordance with OSHA Outreach Training Program requirements.

February 17-20	10:00a-4:30p	Online (Zoom)
April 8-10	8:00a-5:00p	WCC-Ann Arbor, MI
July 14-17	10:00a-4:30p	Online (Zoom)
September 23-25	10:00a-4:30p	Online (Zoom)
December 15-18	10:00a-4:30p	Online (Zoom)

2154 Safe Bolting Principles Practices

Students must bring a laptop.

Participants in this course will be provided with the knowledge and skills to assemble bolted flange joints safely and properly. Participants will learn how to inspect, assemble, and tighten bolted joint connections using industry-required controlled bolting procedures, including pressure boundary flanged joint assembly practices, terminology, tooling, and related technical areas, including safety. Additionally, participants will become proficient in power torquing and tensioning. Course participants will receive an OSHA 7110 certificate, which allows them to conduct bolted joint training at the local level. Participating UA members will receive a UA/CPWR/HYTORC completion card when this training is offered at the local training center.

Personal protective equipment is required. Please refer to the safety requirements.

December 9-10	8:00a-5:00p	WCC-Ann Arbor, MI
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2170 Opioids and the Workplace: Prevention and Response

Students must bring a laptop.

Opioids and substance use disorder is impacting the construction industry six times greater than other industries. This course is designed to prepare attendees to instruct and facilitate the National Institute of Environmental Health Sciences (NIEHS) Opioids and the Workplace: Prevention and Response training at the local level. Upon completion, participants will be able to discuss the scope and severity of the opioid crisis, summarize the relationship between workplace injuries and illnesses, working conditions, and opioid use disorder, identify risks of occupational exposure and potential steps for prevention and response, and identify, inspire, and motivate actions to prevent and respond to opioid use, misuse, and addiction. The course materials are designed to be presented as a stand-alone training or integrated into other training programs.

October 6-9	8:00a-5:00p	Online (Zoom)
November 3-6	8:00a-5:00p	Online (Zoom)

NOTE: PLEASE SEE “REQUIRED TEXT & MATERIALS LIST” PAGE 26 FOR ANY REQUIREMENTS
NOTE: SOME REGIONAL COURSES MAY NOT BE APPLIED TOWARDS A WCC ASSOCIATE DEGREE - PLEASE REFER TO PAGE 8.

2171 Introduction to Peer Support Skills and Mental Health Literacy

Students must bring a laptop.

People who have lived through depression, addiction, and suicidal despair often express that connection with peers is incredibly influential in not only bringing them back from the brink but also in giving them hope and reasons for living. Their compassion, ability to listen, and skills in bridging others to resources save lives. Peer support programs provide natural assistance for workplace mental health.

This course is designed to enhance trainers’ mental health literacy and peer support expertise with an ephasis on knowledge, skills, and confidence. In this course, students will develop an understanding of the value, fundamentals, and practices of peer support skills. By the end of this course, students will be able to demonstrate a basic knowledge of mental health literacy, find shared meaningful experiences with peers, express empathy through reflections, and demonstrate active listening skills. Students will also be able to assist in connecting people who are struggling to specialty professional services such as crisis counseling and addiction recovery services.

January 14- 16	8:00a-5:00p	LJ 392- Cincinnati, OH
April 15-17	8:00a-5:00p	LJ 725- Opa-locka, FL
September 30-October 2	8:00a-5:00p	LJ 100 - Dallas, TX

2172 Advanced Skills in Suicide Prevention Training, Peer Support Skills, and Mental Health Literacy

Prerequisite: 2171 Introduction to Peer Support Skills and Mental Health Literacy

Students must bring a laptop.

The Advanced Skills in Peer Support Skills and Mental Health Literacy is for people who have successfully completed the introductory course (2171) and have the desire to improve their abilities and knowledge to a level where they can train others in basic skills.

In both the peer skills developed and mental literacy topics covered, the material is more crisis focused than the basic listening and support skills in the Introduction course. Participants will gain some basic proficiency in motivational interviewing, crisis response planning, and lethal means safety planning. Mental health literacy topics covered include understanding emotional intensity and how to regulate it and suicide/overdose trauma and grief. They will also have the opportunity to earn a training certificate by completing the 7.5-hour “VitalCog Train-the-Trainer Certification Course.” The goals of the 60-minute VitalCog training are:

- To promote critical thinking about suicide prevention.
- To open dialogue about mental health at work.
- To promote help-seeking and help-giving behaviors.

January 7-9	8:00a-5:00p	LJ 1- Long Island City, NY
March 25-27	8:00a-5:00p	LJ 392- Cincinnati, OH
July 15-17	8:00a-5:00p	LJ 725- Opa-locka, FL
November 18-20	8:00a-5:00p	LJ 100 - Dallas, TX

COURSE DESCRIPTIONS

NOTE: PLEASE SEE "REQUIRED TEXT & MATERIALS LIST" PAGE 26 FOR ANY REQUIREMENTS
NOTE: SOME REGIONAL COURSES MAY NOT BE APPLIED TOWARDS A WCC ASSOCIATE DEGREE - PLEASE REFER TO PAGE 8.

2180 Grooving Fundamentals and Installation

Students must bring a laptop.
In this course, students will learn the proper fundamentals of grooving and installation. Topics include the anatomy of a groove, tool setup procedures, product line, safety testing, and proper installation of grooved piping systems. Students will also be introduced to Revit® software and will have the opportunity to design a grooved piping spool project. A large portion of this course will involve hands-on training including, design-ing, fabricating, and installing a grooved piping spool project which will be pressure tested. Personal protec-tive equipment is required. Please refer to the safety requirements.

April 8-10 8:00a-5:00p Allentown, PA

3001 Introduction to Teaching Online Using Canvas LMS

NOTE: This class is limited to one instructor per local.
Prerequisite: No prior experience with Canvas is required.
Students must bring a laptop.

This course offers a comprehensive introduction to Canvas course creation and design, featuring step-by-step instruction. Topics include: course navigation, user settings, content organization, and the basics of assess-ment creation and grading.

Audience:
Future Canvas Instructors: New to teaching with Canvas this course will equip you with the practical knowledge needed to build a course in Canvas.
Training Coordinators and Local Administrators: Individuals responsible for developing and manag-ing online learning experiences.

January 21 -23	8:00a -5:00p	WCC - Ann Arbor, MI
January 26 - March 8	6:00p - 7:30p	Online *(Mon. & Thurs.)
February 4-6	8:00a -5:00p	WCC - Ann Arbor, MI
March 11-13	8:00a -5:00p	WCC - Ann Arbor, MI
May 11 -June 21	6:00p - 7:30p	Online *(Mon. & Thurs.)

* The online version of the course mirrors the in-person version of the course. Online student must have Basic Computer navigation knowledge, understanding on how File Management works, and the ability to meet online via Teams link. Must have a camera and microphone.

3045 Robotic Total Station (RTS) Layout Basics

Students must bring a laptop.
This course will feature Trimble®, Leica®, and Topcon® Robotic Total Stations. Participants will learn about the basic setup, layout, and quality assurance/ quality control with an emphasis on hands-on applications, using the latest software and equipment from each manufacturer. Training will include how to verify suveyed control points and establish building control points to other levels of the structure. Participants will learn how to load model files and points files into the Total Station Tablets for each manufacturer. Course assess-ments will include a practical, hands-on test, as well as a written test. A passing grade is required to move to the next course toward UA RTS Certification.

TBD

COURSE DESCRIPTIONS

NOTE: PLEASE SEE "REQUIRED TEXT & MATERIALS LIST" PAGE 26 FOR ANY REQUIREMENTS

NOTE: SOME REGIONAL COURSES MAY NOT BE APPLIED TOWARDS A WCC ASSOCIATE DEGREE - PLEASE REFER TO PAGE 8.

3046 Robotic Total Station (RTS) Beyond Basic

Prerequisite: RTS Experience

Students must bring a laptop.

This course will feature Trimble®, Leica®, and Topcon® Robotic Total Stations. Beyond Basics expands from the Basic RTS course by covering vendor software, point creation, and troubleshooting job site pitfalls. Training will include job site simulated pitfalls, point creation from the model, point creation from coordinated points (XYZ), creating and verifying control, collecting points, and using the laser for layout (where applicable). Participants will learn how to load models, PDF files, and export files. Participants will learn how using the RTS benefits the Building Information Modeling (BIM) process beyond just point layouts. Course assessments will include a practical, hands-on test as well as a written test, a passing grade is required to move to the next course for UA RTS Certification.

April 29-May 1 8:00a-5:00p LU440 - Indianapolis, IN

3047 Robotic Total Station Certification

Prerequisite: 3046 RTS Beyond Basics, and field experience.

Students must bring a laptop.

As point layout demand is increasing across construction sites, the UA is establishing a certification in Robotic Total Station. This course is designed to prepare the individual for UA Certification in RTS layout using multiple manufacturers' equipment. This instructor-led advanced workshop will test and increase the knowledge and skill of UA members on robotic total station. Participants will demonstrate and problem-solve troubleshooting techniques and explore best practices in QAQC. The UA member will receive a UA RTS Certification on the final day of class with successful completion of both a written and practical test.

July 15-17 9:00a-5:00p TBD

3093 Accelerated Revit®

Students must bring a laptop.

Embark on a transformative journey with our Accelerated Revit® Training Course, meticulously designed for our members in the plumbing, pipefitting, and sprinkler fitting trades. This intensive 40-hour program is crafted to empower you with the fundamental skills and knowledge required to excel in the dynamic world of building information modeling (BIM) using Autodesk Revit®. Our Accelerated Revit® Training Course is your gateway to becoming an employable, productive professional capable of handling essential Revit® tasks within your field. Through hands-on learning experiences and guided instruction from industry experts, you'll gain the competence to contribute effectively to any project, enhancing your employability and career prospects in the competitive construction industry. Join us on this empowering journey to mastery in Revit®, and lay a solid foundation for your future success!

September 23-26 7:00a-6:00p LU440 - Indianapolis, IN

4006 Methods in Teaching Backflow Prevention Certification

Prerequisite: Backflow Prevention and Assembly Tester Certification

Certification fees apply and are the responsibility of the student. See the fee schedule.

Participants who wish to be certified as a backflow tester must successfully pass the written and practical exam. They will receive an ASSE 5110 Backflow Tester Certification (recertification).

Students must bring a laptop.

NOTE: PLEASE SEE "REQUIRED TEXT & MATERIALS LIST" PAGE 26 FOR ANY REQUIREMENTS

NOTE: SOME REGIONAL COURSES MAY NOT BE APPLIED TOWARDS A WCC ASSOCIATE DEGREE - PLEASE REFER TO PAGE 8.

4006 Methods in Teaching Backflow Prevention Certification (cont'd)

Guidelines are presented for instruction in acceptable testing practices, annual inspection, and backflow prevention assembly repair for backflow preventers used in cross-connection control programs. Course materials cover topics such as cross-connection identification, reasons for backflow occurrences and the dangers they present, methods of cross-connection control, recommended applications for each type of backflow methods, device or assembly, relevant regulations and codes, and tester liability. The demonstration of several acceptable hands-on testing procedures and the maintenance requirements for various devices and assemblies also will be covered. The minimum requirement for attending this course is to have previously received a nationally recognized Backflow Prevention and Assembly Tester Certification. Attendance will fast-track the application process to become an ASSE-approved instructor or proctor for the 5110 Certification. The course will involve hands-on training. **Personal protective equipment is required. Please refer to the safety requirements.**

March 18-22

8:00a-5:00p

LJ 601 - Madison, WI

4009 Methods in Teaching Plumbing Service, Maintenance, and Repair

Certification fees apply and are the responsibility of the student. See fee schedule.

Participants who wish to be certified as ASSE 13010 Plumbing Service Technicians must receive a passing grade on the written and practical exams.

Students must bring a laptop.

This course is intended to assist attendees in their development and presentation of classroom instruction of the UA Plumbing Service, Maintenance, and Repair curriculum. The course will concentrate on hands-on skills training utilizing plumbing service mobile classroom training modules and appropriate tools and equipment. The course emphasizes the customer service and communication skills needed in the plumbing service industry. It will include material referencing plumbing service troubleshooting, repair, installation, sales, business operations, vehicles and equipment, and company policies. Attendance will fast-track the application process to become an ASSE-approved instructor or proctor for the 13010 certification. **Personal protective equipment is required. Please refer to the safety requirements.**

April 28-May 2

8:00a-5:00p

LJ 15 - Maple Grove, MN

4011 Medical Gas Instructor

NITC Certification fees apply and are the responsibility of the student. For more detailed information, please review the Candidate Bulletin at <https://tinyurl.com/fw5evcft>.

Students must bring a laptop.

This course will cover NFPA 99 2024 codes and ASSE Series 6000 standards that govern all aspects of medical gas and medical/surgical vacuum piping systems. This includes requirements for brazer qualification per ASME Section IX. Candidates who successfully pass this course and exam will be certified by NITC as ASSE 6050 Medical Gas Instructors.

Prerequisites:

- The candidates for ASSE 6050 certification shall have a minimum of ten (10) years of documented experience in the installation of plumbing or mechanical piping systems.
- A minimum of two (2) years of documented experience in the installation of medical gas and vacuum systems.
- Instructors shall have a minimum of two (2) years of documented practical teaching experience.
- Instructors shall possess current Medical Gas Systems Installer and Medical Gas Brazer certifications in compliance with ASSE Standard 6010.

April 7-11

8:00a-5:00p

WCC - Ann Arbor, MI

COURSE DESCRIPTIONS

NOTE: PLEASE SEE "REQUIRED TEXT & MATERIALS LIST" PAGE 26 FOR ANY REQUIREMENTS

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4110 Water Conditioning for the Residential/Light Commercial Service Technician

Students must bring a laptop.

This course will strengthen your understanding of municipal water while acquiring the necessary skills and technological competency established by ASSE to install and maintain water treatment equipment. The fundamentals of residential and light commercial water aesthetics and the technology available to improve undesirable water issues will be reviewed. Specific topics to be covered will include on-site water aesthetics testing for total dissolved solids, chlorine, iron, and hardness, water conditioning equipment such as ion exchange water softeners, water filtration, and reverse osmosis systems, water aesthetics issues and the effects they can have, private wells and municipal water supplies, lead and PFAS. Installation, troubleshooting, and maintenance of discussed equipment will also be reviewed. Practical application includes hands-on water testing, applying water conditioning principles, and proving the results of the water conditioning systems. At the end of this course, participants will take the ASSE 22000 certification exam.

April 29 - May 1

8:00a - 5:00p

LJ 15 - Maple Grove, MN

5005 Pipe Fitting Fundamentals

Students must bring a laptop.

In this course, students will be introduced to IPT's Pipe Trades Handbook and the sections covering Pipe and Tube data, Valves and Fittings, Pipe offsets and layout, Trigonometry, Prints, Welding, and Rigging. Students will be given shop projects that reinforce each section along with tests and quizzes. Students will be able to use IPT's handbook to complete shop projects and answer questions associated with them. Students will demonstrate skills to be able to teach this class to their students in their home locals and build a pipe fitter fundamentals class that fits their local needs.

March 4-6

8:00a - 5:00p

WCC - Ann Arbor, MI

5009 Industrial Rigging Technologies

NOTE: This class is limited to one instructor per local.

Students must bring a laptop and the Pipe Trades Pro Calculator or equivalent to class.

Participants will be trained in the planning and precautions required when lifting materials and equipment. Students will learn proper and safe rigging of loads, proper applications of slings and rigging hardware, advantages and disadvantages of each piece of rigging gear, uses of rigging hardware, determination/calculations of rigging loads and equipment, proper maintenance of rigging equipment, and rigging personal protective equipment. The industrial rigging and virtual crane signaling training modules will be demonstrated.

Personal protective equipment is required. Please refer to the safety requirements.

May 13-15

8:00a - 5:00p

WCC - Ann Arbor, MI

5011 Industrial Rigging Certification for Instructors

NOTE: This class is limited to one instructor per local.

Prerequisite: 5009, Industrial Rigging Technologies

Students must bring a laptop and the Pipe Trades Pro Calculator or equivalent to class.

Students will be provided with theoretical and practical components that cover industry-recognized rigging practices, including calculating centers of gravity, sling stress, and crane setup, as well as the use of tuggers, jacks, and rollers. Instructors' rigging skills will be evaluated by using written and hands-on performance exams. Students are required to perform a sequence of crane lifts using multiple types of rigging equipment. Industrial rigging and crane signaling training modules will be demonstrated and used. **Personal protective equipment is required. Please refer to the safety requirements.**

COURSE DESCRIPTIONS

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5011 Industrial Rigging Certification for Instructors (cont'd)

Prerequisites:

Student requirements before attending this course:

- Review pages 1 to 163 – *IPT Crane and Rigging Handbook*
- Review *UA Rigging Manual*.

October 13-17

8:00a-5:00p

WCC - Ann Arbor, MI

5012 UA Crane Signal Person Certification for Instructors

Students must bring a laptop

In this course, students will become qualified signal persons that more than meet the requirements of OSHA CFR 1926 subpart CC. In addition to the standard method of hand signals, voice and new signals will be taught. Working knowledge of the conditions for safe crane operation in various working conditions, dynamics of load movement, electrocution hazards, and hoisting of personnel will be covered. This course will use a combination of animations and videos to illustrate all the standard hand signals, crane characteristics, and crane limitations. Obtaining this certification through written and performance exams will allow these students to become instructors and exam administrators for their home locals.

April 22-24

8:00a-5:00p

WCC - Ann Arbor, MI

6031 C-2107 YT/YK Centrifugal Chiller and Compressor Overhaul (Johnson Controls)

Students must bring a laptop.

The service personnel will become familiar with the operation and maintenance of centrifugal systems. Students will review R-11, R-123, R-22, and R-134a single-stage centrifugal chillers. They will also learn the internal workings of the compressor, oil return system, lube circuit, purge, and heat exchangers. The OptiView Control Center plus preventive maintenance and system checkout procedures are also addressed along with a hands-on teardown and rebuild of a YK centrifugal compressor. Refer to Safety Requirements. Personal Protective Equipment is required for all shop classes.

October 27-31

8:00a-5:00p

Johnson Controls, New Freedom, PA

6032 C-2111 YVAA Air Cooled Screw Chiller (Johnson Controls)

Prerequisite: Working knowledge of YCAV/YCIV Chiller, working knowledge of VSDs and understanding of basic electronics.

Students must bring a laptop.

This three-day course teaches experienced service technicians about the YVAA Chiller. The course will include features of this unit and the differences in installation, operation, and maintenance from the YCAV. Steel-toed leather shoes and long pants are required. Personal protective equipment is required. Please refer to the safety requirements.

September 9-11

8:00a-5:00p

Johnson Controls, Tampa, FL

6033 C-2103 YCAV Air Cooled Rotary Screw Liquid Chillers (Johnson Controls)

Students must bring a laptop.

This three-day course teaches service personnel about the YCAV Chiller features, including the screw compressor, system ancillary components, start-up procedures, unit operation, and maintenance. Steel-toed leather shoes and long pants are required. Personal protective equipment is required. Please refer to the safety requirements.

May 4-6

8:00a-5:00p

Johnson Controls, Irving, TX

COURSE DESCRIPTIONS

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6034 C-2100 OptiView Panel (Johnson Controls)

Students must bring a laptop.

This two-day course for service personnel covers the OptiView graphic micro-processor control center. Basic navigation, panel architecture, operation, and service of the OptiView Control Centers are covered in this course. Labs include hands-on training using OptiView Control Panel simulators.

October 14-15

8:00a-5:00p

Johnson Controls, Tampa, FL

6040 SER 120H Centrifugal Chiller Fundamentals (Carrier Corporation)

Students must bring a laptop.

In this course, students learn how to operate, maintain, troubleshoot and service 19 series low- and high-pressure machines (including PIC controls on newer models). Learning is tested in the labs. Studies include: refrigeration cycles, compressor theory, lubrication cycles, purge operation, refrigerants, heat exchangers and heat transfer. The course also covers troubleshooting techniques and equipment needed to: record and analyze machine temperatures and pressures; determine performance using heat exchange approaches; waterside flow rate analysis; maintenance requirements; and logging machine data. Refer to Safety Requirements. Personal Protective Equipment is required for all shop classes.

May 20-22

8:00a-4:00p

Carrier Corporation, Charlotte, NC

6046 York YMC2 Magnetic Bearing Overhaul

Students must bring laptop.

This class will be both lecture and hands on where the technician will learn the latest techniques to overhaul the York YMC2 Magnetic Bearing Centrifugal Compressor. The student will learn proper rigging strategies, tools required, step by step processes to measure, check and verify clearances that are crucial to the disassembly of the centrifugal compressor.

September 16-18

7:00a-3:30p

Emcor Training Center, Phoenix, AZ

October 14-16

7:00a-3:30p

Emcor Training Center, Phoenix, AZ

6071 WMC Service & Troubleshooting (Daikin)

Prerequisite: WMC Maintenance and Operation Online Curriculum (4 hours) \$200 per student. This must be completed before attending the in-person course. <https://www.daikinapplied.com/training/our-training> Please contact the Registrar's office with any questions. (410) 269-2009.

Students must bring laptop.

This course is designed to teach maintenance and service technicians how to maintain, operate, troubleshoot, and repair Daikin Magnetic WMC Chillers. Compressor monitoring software is provided. Personal Protective equipment is required. Please refer to the safety requirements.

September 10-11

8:00a-5:00p

LJ 449 Harmony, PA

6077 Carrier 30 Series and 23XR/V Chiller Fundamentals, Operation, Maintenance, and Service (Carrier Corporation)

Students must bring laptop.

HVAC Technicians who take this course will learn how to operate, maintain, troubleshoot, and service Carrier 30 series screw and scroll chillers and the 23XR/XRV water-cooled screw chillers. Refrigerant and oil cycles, operation and function of components, and how to collect and analyze data to determine if the problem is with the machine or the system will be covered. Students will use simulators to get hands-on experience with the operation of the chiller controls.

April 28-May 2

8:00a-4:00p

Carrier Training Center, Charlotte, NC

COURSE DESCRIPTIONS

NOTE: PLEASE SEE "REQUIRED TEXT & MATERIALS LIST" PAGE 26 FOR ANY REQUIREMENTS

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6113 Daikin VRV Install and Commissioning Train-the-Trainer

Students must bring a laptop.

This course is for instructors who wish to become a Daikin Authorized VRV Instructor. In the hands-on lab, students will review and demonstrate the proper installation and commissioning practices for the Daikin VRV heat pumps, heat recovery systems, system controllers, and remote controllers. Students will also learn how to effectively deliver this material to students using flip charts, whiteboards, demonstrations, show and tell, PowerPoint presentations, and classroom and laboratory hands-on exercises. Effective classroom management skills will be discussed.

May 13 - May 15	8:00a - 5:00p	LU 412 - Albuquerque, NM
September 23 - 25	8:00a - 5:00p	LU 449 - Harmony, PA
October 21 - 23	8:00a - 5:00p	LU 412 - Albuquerque, NM

6117 CVHE/CVHF Overhaul (Trane)

Students must bring a laptop.

This class will be both lecture and hands-on, and the technician will learn the latest techniques to overhaul the Trane CVHE and CVHF Centrifugal chiller. The student will learn proper rigging strategies, the required tools, and step-by-step processes to measure, check, and verify clearances that are crucial to the disassembly and reassembly of the centrifugal compressor.

February 19 - 21	8:00a - 5:00p	Emcor Training Center, Phoenix, AZ
October 7 - 9	8:00a - 5:00p	Emcor Training Center, Phoenix, AZ

7025 Revit for Fire Protection I

Students must bring a laptop.

This Revit® training will focus on the life safety systems utilized in the fire protection industry utilizing Hydra CAD® for Revit®. The course is designed for the instructor who is ready to bring BIM into their training program and advance today's technology to create digital fire protection systems that are part of sprinkler fitter training. This virtual installation course will include subjects such as sprinkler location and spacing, hanging and bracing, system components, and an introduction into hydraulic calculations.

TBD

8000 Administration of a United Association Weld Test

Students must bring a laptop.

Explore the processes involved with the testing of welders in accordance with the UA Welder Certification Program. Participants will be able to perform the duties and responsibilities of an authorized testing representative (ATR) as defined in the welder certification program including the administration of a welder testing event, required documentation, and determining the acceptability of weld test assemblies during in-process and final inspections.

February 18 - 20	8:00a - 5:00p	LU 81 - Syracuse, NY
June 3 - 5	8:00a - 5:00p	LU 449 - Harmony, PA
July 15 - 17	8:00a - 5:00p	LU 601 - Madison, WI
December 9 - 11	8:00a - 5:00p	LU 100 - Dallas, TX

COURSE DESCRIPTIONS

NOTE: PLEASE SEE "REQUIRED TEXT & MATERIALS LIST" PAGE 26 FOR ANY REQUIREMENTS

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8001 AWS CWI® Prep Course

Prerequisite: Five years of welding experience

Please check your email daily for important information regarding AWS Portal. Failure to do this, may result in the cancelation of your registration.

All Students must go to the AWS portal to register for the Part B exam.

Certification fees apply and are the responsibility of the student. See the fee schedule.

Students must bring a laptop.

This course will provide welding inspectors with the knowledge of welding and inspection fundamentals useful on the jobsite. It involves great responsibility and remarkable skill demonstration. The CWI® is widely recognized, both nationally and internationally. This intensive course covers information on nondestructive examination methods applicable to common welding processes and general provisions of API 1104, which includes qualification of welding procedures for welds containing filler-metal additions, design, and preparation of the joint for production welding, nondestructive testing and acceptance standards, and automatic welding with and without filler-metal additions.

March 8-15	8:00a-5:00p	LU 412 - Albuquerque, NM
April 5-12	8:00a-5:00p	LU 430 - Tulsa, OK
May 10-17	8:00a-5:00p	LU 400 - Fond Du Lac, WI
May 31-June 7	8:00a-5:00p	LU 290 - Tualatin, OR
June 21-28	8:00a-5:00p	LU 440 - Indianapolis, IN
July 19-26	8:00a-5:00p	WCC - Ann Arbor, MI
September 6-13	8:00a-5:00p	LU 565 - Parkersburg, WV
October 4-11	8:00a-5:00p	LU 234 - Jacksonville, FL
October 25-November 1	8:00a-5:00p	LU 525 - Las Vegas, NV

8012 Methods in Teaching Shielded Metal Arc Welding (SMAW)

Prerequisite: Current Shielded Metal Arc Welding (SMAW) UA Welder Certifications

Students must bring a laptop.

This course covers advanced pipe welding techniques used in applications such as welding alloy materials and process piping. The course focuses on how to teach advanced techniques of shielded metal arc welding and the process variables for a variety of materials. This course provides local unions a means of preparing their members in developing the skills necessary to address the industry's welding needs. Students must bring their own welding hood, welding jacket, and welding gloves. Personal protective equipment is required. Please refer to safety requirements.

March 11-13	8:00a-5:00p	LU 597 - Mokena, IL
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8014 Methods in Teaching Advanced Gas Tungsten Arc Welding (GTAW)

Prerequisite: Current Gas Tungsten Arc Welding (GTAW) UA Welder Certification

Students must bring a laptop.

This course covers advanced pipe welding techniques used in applications such as welding alloy materials and process piping. The course focuses on how to teach advanced techniques of gas tungsten arc welding and process variables for a variety of materials. This course provides local unions a means of preparing their members in developing the skills necessary to address the industry's welding needs. **Students must bring their own welding hood, welding jacket, and welding gloves. Personal protective equipment is required. Please refer to the safety requirements.**

April 29-May 1	8:00a-5:00p	LU 440 - Indianapolis, IN
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COURSE DESCRIPTIONS

NOTE: PLEASE SEE "REQUIRED TEXT & MATERIALS LIST" PAGE 26 FOR ANY REQUIREMENTS

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8016 TIP TIG® Welding Process

Prerequisite: Current Gas Tungsten Arc Welding (GTAW) UA Welder Certification and a minimum of five years of experience with the GTAW and GMAW welding processes.

Students must bring a laptop.

The course provides a detailed understanding of the TIP TIG® (GTAW) hot wire welding process. The TIP TIG manual welding process allows for substantial increases in filler metal deposition while maintaining superior GTAW weld quality. This course covers the safety, operation, technology, and equipment setup associated with this type of advanced welding system. In addition, the course covers process variables, system control functions, and weld parameter selection for a variety of materials. **Students must bring their own welding hood, welding jacket, and welding gloves. Personal protective equipment is required. Please refer to the safety requirements.**

September 23-25

8:00a-5:00p

LU 597 - Mokena, IL

8018 Introduction to Automatic Welding for Heavy Wall Pipe

Students must bring a laptop.

This course is focused on train-the-trainer and will provide the instructor with an understanding of how to teach the orbital wire feed remote welding process at the local level. The course covers the operation, technology, and equipment setup and safety issues associated with these types of advanced welding systems. Additionally, this course covers process variables, system programmer control functions and weld parameter selection, which provides the theoretical basis for weld program development. The course is structured to provide instructors with a hands-on training approach using the Remote Video AMI 415 and Liburdi Gold Track Fire View orbital wire feed welding systems. **Students must bring their own welding hoods, welding jackets, welding gloves, work shoes, and wear proper protective clothing. Personal protective equipment is required. Please refer to the safety requirements.**

April 8-10

8:00a-4:00p

WCC-Ann Arbor, MI

8047 Semiconductor Orbital Tube Welding

Students must bring a laptop.

This is a 40-hour instructor's course intended to provide each participant with the techniques and material needed to instruct the orbital fusion welding (no filler wire) course as used in semiconductor, pharmaceutical, biotechnology, and food processing plants. This course is designed for UA instructors with a TIG welding background and **must have either a current UA 14, 38, 41, or equivalent certification that requires a backing purge or Orbital Tube certification equivalent to the UA 18A.**

April 28-May 2

8:00a-5:00p

LU 100-Dallas, TX

September 8-12

8:00a-5:00p

LU 81- Syracuse, NY

8048 Semiconductor Infrared (IR) Fusion

Students must bring a laptop.

This train-the-trainer course will cover infrared (IR) fusion with PVDF and Polypropylene pipe systems. The IR class will cover the setup and breakdown of the IR 63+, 110+, and 225+ fusion equipment. This course will cover the Georg Fischer (GF) training manuals, how to program the proper size and material to be fused, and hands-on welding. Students will perform hands-on fusion of required pipe types and sizes to meet acceptable industry standards. At the end of this course, participants will take the UA GFIR certification exam.

April 29-May 1

8:00a-5:00p

LU 81- Syracuse, NY

COURSE DESCRIPTIONS

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9001 Apprenticeship Standard Guidelines

Students must bring a copy of their local union apprenticeship standards.

Students must bring a laptop.

This course is designed to provide new training directors, coordinators, or JATC members with an in-depth look at apprenticeship standards, and how they can affect the operation of the program. Discussions will be held on the United Association National Guideline Standards, developed by the International Pipe Trades Joint Training Committee, Inc., as well as on the regulations put into place by the U.S. Department of Labor under 29 CFR 29 and 29 CFR 30. Part of this course will involve group discussions on apprenticeship standards.

March 18-20

8:00a-5:00p

Online (Zoom)

9002 Administration of a Jointly Managed Training Program

Students must bring a laptop.

In this course students will receive updated UA Jointly Managed Training Program information and best practices for running that program successfully. Students will collaborate using problem solving techniques to determine best practices used to comply with laws affecting training programs, write policies to support standards of apprenticeship, develop curriculum coordinated with on-the-job learning, maintain accreditation and administer a training program.

April 1-3

8:00a-5:00p

Online (Zoom)

9003 Understanding Legal Issues and Fiduciary Responsibilities

Students must bring a laptop.

Everyone associated with the operation of a jointly managed training program should be aware of the legal issues and fiduciary responsibilities that exist. Participants in this course will receive information on statutory and regulatory compliance related to operating a training program. Discussion will be held on trust documents, prohibitive transactions, and legal documentation procedures, and will include conducting JATC meetings. Additionally, there will be discussion on the common pitfalls associated with various drug testing and fitness testing, as well as the different insurance requirements of a JATC (liability, workers comp, etc.).

April 8-10

8:00a-5:00p

Online (Zoom)

REQUIRED TEXTS & MATERIALS

NOTE: You must bring the required material to class. If you do not have this material, the following items can be purchased through the IPTJTC Bookstore.

<u>Course# - Description</u>	<u>Required Material</u>
4006 Methods in Teaching Backflow Prevention Certification	<i>Backflow Prevention Reference Manual</i> , Fourth Edition (R/22); <i>ASSE Series 5000 Professional Qualification Standard</i> (Latest Edition)
4009 Methods in Teaching Plumbing Service, Maintenance, Repair	<i>Plumbing Service, Maintenance, and Repair</i> (R/21); <i>ASSE 13000 Service Plumber and Residential Mechanical Service Technician Professional Qualification Standard</i>
4011 Medical Gas Instructor	<i>NFPA 99, Health Care Facilities Code</i> , 2024 Edition; <i>NFPA Medical Gas and Vacuum Systems Handbook</i> , 2024 Edition; <i>ASSE Series 6000 Professional Qualifications Standard for Medical Gas Personnel</i> , 2021 Edition
5005 Pipe Fitting Fundamentals	<i>IPT Pipe Trades Workbook</i> (spiral-bound)
5009 Industrial Rigging Technologies	<i>UA Rigging Manual</i> (R/24), <i>IPT Crane and Rigging Handbook</i> (spiral-bound), <i>Crane Signal Handbook</i> (IPT)
5011 Industrial Rigging Certification for Instructors	<i>UA Rigging Manual</i> (R/24), <i>IPT Crane and Rigging Handbook</i> (spiral-bound)
5012 UA Crane Signal Person Certification for Instructors	<i>Crane Signal Handbook</i> (IPT)
8012 Methods in Teaching Shielded Metal Arc Welding (SMAW).....	<i>Welding Practices and Procedures for the Pipe Trades (ATP)</i> (F/16)
8014 Methods in Teaching Adv. Gas Tungsten Arc Welding (GTAW)	<i>Welding Practices and Procedures for the Pipe Trades (ATP, F/16)</i>
8047 Semiconductor Orbital Tube Welding	Course 8047 Binder
8048 Semiconductor Infrared (IR) Fusion	Course 8048 Binder

Purchase Material for Regional Training Classes at:

International Pipe Trades Joint Training Committee, Inc. (UA Bookstore)
 687-B Commerce Drive
 Upper Marlboro, MD 20774
 Telephone: 301-218-1241
 E-mail: iptbookstore@uanet.org or diannel@uanet.org
 Shop online: shop.iptbookstore.com

GREAT LAKES REGIONAL TRAINING FACILITY

Facility

The Great Lakes Regional Training Center (GLRTC) is a 15,000 square-foot facility with classrooms, labs, and equipment used in all aspects of United Association (UA) training. The GLRTC is an essential component of the training program and includes state-of-the-art welding labs with the latest in technology such as training on micro-turbines. The classrooms provide a flexible environment that can accommodate everything from computer-based learning to the latest equipment and technology that UA members are likely to find on jobsites all across North America.



What We Do

- Answer any questions about Regional Training Center services
- Assists students in web-based classes using a Learning Management System (LMS)
- Help instructors develop online classes
- Facilitate student participation in WCC courses
- Provides academic advising for WCC associate degrees
- Evaluates transfer credits from other academic institutions
- Facilitates various onsite training courses throughout the year

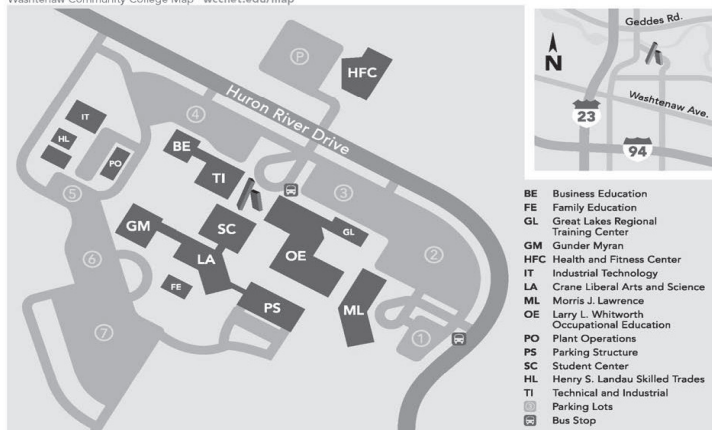
Washtenaw Community College (WCC) is in partnership with the UA to provide associate degree and certificate programs for its members.

All UA apprentices registered with WCC receive 45 college credits upon completion of their apprenticeship in plumbing, pipefitting, sprinkler fitting, or HVACR. These credits can be applied towards an associate degree in industrial training, construction supervision, or journeyworker general studies.

Washtenaw Community College hosts the annual UA Instructor Training Program every August. During this week-long program, approximately 2,500 selected UA instructors take a variety of college level courses to become certified UA instructors. These courses may also apply toward an associate degree in industrial training.

Washtenaw Community College is accredited by the Higher Learning Commission of the North Central Association.

Washtenaw Community College Map: wccnet.edu/map



Staff

Dr. Marilyn Donham, Dean, Skilled Trades Training
Anthony Esposito, Technical Director
Kim Billings, Logistics Director

Address

**UA Great Lakes Regional
 Training Center**
 4800 East Huron River Drive
 Ann Arbor, MI 48105
 (734) 973-3300

CONTACT INFORMATION

WEB RESOURCES

American Society Of Sanitary Engineers (ASSE)

<https://www.asse-plumbing.org/>

Canvas Login

<https://canvas.uaitf.com/>

Destination Ann Arbor

<https://www.annarbor.org/>

JATC Bookstore

<https://shop.iptbookstore.com/>

OSHA

<https://www.osha.gov/>

National Inspection Testing Certification (NITC)

<https://nationalitc.com/>

REGISTRAR'S OFFICE & CERTIFICATIONS

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Telephone: (410)269-2000, ext. 3093

Angie Sterling, Certifications

Email: angies@uanet.org

Telephone: (410)269-2000, ext. 3029

ONLINE LEARNING RESOURCES

Lauren Friedman, Instructional Technology Coordinator

Email: lfriedman@uanet.org

Telephone: (410)269-2000, ext. 3064

INTERNATIONAL PIPE TRADES JOINT TRAINING COMMITTEE (BOOKSTORE)

Dianne Lash, Manager

Email: iptbookstore@uanet.org

Telephone: (301)218-1241

Fax: (301)218-8961

WCC UA CANVAS HELP DESK SUPPORT

Email: uahelp@wccnet.edu

Telephone: (734)249-5966

WASHTENAW COMMUNITY COLLEGE

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Al Snow, Director of Sales & Service

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