

2026

Regional Training Course Catalog



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November, 2025

Dear Brothers and Sisters,

The United Association Education and Training Department recognizes the importance of ongoing training and its role in enhancing trades education. With support from our partners at Washtenaw Community College and UA local unions, we are pleased to present a variety of options for the 2026 Regional Training schedule. The International Training Fund (ITF) is proud of the dedication UA instructors have in making each year a productive and enriching learning experience, which is essential for North America's workforce.

Each year, the Education and Training Department and its staff work to update and offer local union instructors advanced industry training opportunities, with an ongoing focus on providing relevant and accessible training. As in previous years, a selection of courses remains available for each trade sector. These courses are offered year-round at various local union training centers, online, at the Great Lakes Regional Training Center at Washtenaw Community College, and at industry-specific locations across the United States and Canada. We are also pleased to include coordinator and professional courses in an online format. The schedule will be updated throughout the year, especially with details that are yet to be determined. We encourage you to review the complete course list so your instructors can enhance their expertise. Please use the "Program Information" tab on the registration page to stay informed about any changes.

All courses require a minimum number of students to be held. Cancellations due to low enrollment may occur as early as three months before the start date. We recommend registering early and contacting our office if you have questions about the course status. Please wait for the final course confirmations, which will be emailed at least one month prior to the start date, before planning your travel. For questions, call the Registrar's Office at 410-269-2009 or email uaregistrar@uanet.org.

Please also remember that all Training Directors and registrants must notify us promptly when they become aware that a withdrawal is necessary. Failing to do so may impact their ability to register for future courses, as funding depends 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 2026 Instructor Training Program!

Fraternally,



Raymond W. Boyd
Director of Education and Training
International Training Fund

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 now available. Please find “2026 Regional Training Registration” under “UA News” at <https://uanet.org>.

- Step 1. Contact your local union training coordinator in order to register.
- Step 2. Click *Begin Registration* at the bottom of the page. It is vital that you enter up-to-date contact information for each registrant.
- Step 3. Select courses using the *Click Here to Add a Course* 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. Finally, please click on “Register” at the bottom of the page to finalize your registration.

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

Recertification = \$60

Backflow Certification Fees:

(Payable to ASSE International)

Backflow Tester = \$150

Backflow Repairer = \$150

Cross-Connection Control Surveyor = \$150

Recertification = \$100

Service Plumber Certification Fees:

(Payable to ASSE International)

13010 Certification = \$150

13010 Recertification = \$100

Special Hazard Training Certification Fees:

(Payable to ASSE International)

27010 Certification Installation of Hybrid

Fire Extinguishing Systems = \$150

27020 Certification Inspection, Testing, and Maintenance of Hybrid Fire Extinguishing Systems = \$150

SAFETY REQUIREMENTS FOR PERSONAL PROTECTIVE EQUIPMENT

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 Z87.1-2025 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.

CODE OF CONDUCT AND GUIDELINES FOR PARTICIPATION IN ITF-SPONSORED EVENTS

The United Association International Training Fund (“ITF”) is committed to the principles of respect, honesty, integrity, and professionalism. As a UA member, you should be committed to adhering to the UA Standard for Excellence, which reflects the UA’s commitment to deliver the highest levels of safety, quality, and productivity. When you participate in any event sponsored or hosted by the ITF, you are expected to meet and exceed these standards of professionalism and affirm the high standard of ethics and conduct. For clarity, the following has been assembled to provide direction on expectations and a code of conduct.

General Expectations – Ethical Principles:

It is expected that all participants, guests, and anyone else who attends an event sponsored by the ITF shall comply with the following principles at all times:

- Comply with all applicable rules, policies, and procedures.
- Be mindful of your surroundings and of other attendees, and recognize that we are guests in the facilities.
- Be considerate and respectful to each other.
- Be inclusive.
- Conduct yourself in a professional manner at all times, including during the event and while socializing with other attendees after hours.
- Respect diversity of opinions and ideas.
- You must not engage in harassing, discriminatory, or demeaning conduct.
- Refrain from the use of profanity and offensive language.
- Refrain from exclusionary behavior.
- Do not participate in or condone unlawful behavior or activity.
- Maintain a positive and professional environment.

Alcohol & Substance Use:

- Illegal drug use is prohibited during ITF-sponsored events.
- Alcohol is only permitted when offered at the venue (i.e., during a dinner or reception). Alcohol consumption should be done in moderation only. Excessive consumption and inappropriate behaviors will not be tolerated and may be grounds for removal from the event.

Use of Social Media:

The ITF recognizes the inherent value that technology and social media can bring to support the operation and success of the ITF, local training programs, the UA, and industry partners. By participating in ITF-sponsored events, you may be featured on social media platforms or in various communications. The ITF also acknowledges that many participants may share their activities on their personal social media accounts during the events.

All social media posts featuring, showing, or otherwise reflecting ITF-sponsored events are expected to meet the following guidelines:

- Show professionalism.
- Be courteous, respectful, ethical, and responsible.
- Refrain from posting content that is:
 - untruthful
 - threatening
 - defamatory
 - obscene
 - libelous
 - profane
 - discriminatory
 - vulgar
 - hateful
 - violates copyright, trademark, or other intellectual property right
 - proprietary or confidential
 - harassing

CODE OF CONDUCT AND GUIDELINES FOR PARTICIPATION IN ITF-SPONSORED EVENTS

- Ensure that others are aware that any personal account or statements do not represent the ITF, local training program, the UA or industry partners.
- Avoid speaking on matters outside the field of expertise.
- Exercise discretion.
- Be respectful, polite, and patient when speaking or posting information in relation to the event.

Enforcement:

The ITF reserves the right to proceed with any and all actions to enforce this Code of Conduct or otherwise ensure safe and appropriate behavior. Enforcement actions may include penalties ranging from warnings to removal from the event. In each case, the Business Manager (and, if applicable, Training Coordinator) of the participant will be informed of such infractions and any covered costs related to the participant's attendance at the event may no longer be subject to support from the ITF.

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 toward 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 Pipefitting 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)

GRADUATION REQUIREMENTS

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 Today's Student
2101 (372)	Financial Literacy for Apprentices
2102 (374)	Expanding Your Range When Recruiting
2103	Utilizing ITF and UA Training Materials to Expand Your Recruitment Efforts
2104	Effective Leadership and Committee Development
2105	Workplace Professionalism
2106	Recruitment Resources and Strategies
2170	Opioids in the Workplace: Prevention and Response
2171	Introduction to Peer Support Skills and Mental Health Literacy
2172	Advanced Skills in Suicide Prevention Training, Peer Support Skills, and Mental Health Literacy
2173	Substance Abuse and Addiction in the Workplace
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
9017	After the Fight: Welcoming Our Heroes to the UA
9100 (708).....	Canadian Apprenticeship Development
9101	Canadian Coordinator Program
9102	Canadian Welder Assessment Program
9103	Canadian Coordinators Union Training Innovation Program
9104	Canadian Instructor Training for Women (CITW)
9105	UA Canada Training Director/Coordinator Program
9106	UA Canada and CWBi Acorn Welding Program

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..... 9-14 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 computer with a high-speed internet connection.

Please contact Julie Darling at WCC Student Services with any questions.

Julie Darling, UA Programs
Phone: 1-734-973-3685
Email: jldarling@wccnet.edu
<https://www.wccnet.edu/learn/departments/uasd/>

* Some courses may not apply toward a WCC associate degree. Please contact Julie Darling at WCC with any questions.

NINE-YEAR RECERTIFICATION FOR CWI®

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	TIP TIG® Wire Feed Welding Process
Applied Metallurgy	Advanced Shielding Metal Arc Welding (SMAW)
Piping Codes for Industrial Work	Advanced Gas Metal Arc Welding (GMAW)
Orbital Tube Welding Oxy-Fuel Cutting and Welding	Authorized Testing Representative Refresher
Advanced Orbital Welding	Authorized Testing Representative
Teaching Orbital Welding	OSHA 500
Machine Cutting, Severing, and Beveling	Certified Wire Feed Machine Orbital Welding
ASME Section B31.1 Code	Orbital Wire Feed Remote Video Welding Systems
Methods in Teaching Downhill Welding	AWS CWI Preparation
Teaching Shielded Metal Arc Welding (SMAW)	Principles of Arc Welding Processes, Welder and Weld Process Qualification
Innovative Welding Techniques	Weld Metallurgy, Defects, and Discontinuities for Process Piping Material (OSU)
Emerging Welding Technologies	NDE for Process Piping (OSU)
Teaching Gas Tungsten Arc Welding (GTAW)	Principles of Welding Processes and Welding Design (OSU)
Radiographic Film Interpretation	Principles of Welding Design (OSU)
ASME Section IX Welding Code	
Advanced Gas Tungsten Arc Welding (GTAW)	

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

71 VitalCog Train-the-Trainer

In this eight hour training, participants will acquire the skills, tools, and knowledge to facilitate VitalCog suicide prevention training within their own local union, training center, or on the jobsite. After completing the course, trainers are equipped to provide participants with the tools to identify individuals at risk and respond effectively to a crisis. This training is designed for those who have an interest, commitment, and capacity to provide 1-2 hour suicide prevention training in the construction industry. The training includes the opportunity to learn more about the statistics and facts on suicide, along with the impact on individuals, families, communities, and workplaces. Participants will have the opportunity to practice facilitation and learn from other trainers on best practices for delivering the program.

TBD

TBD

TBD

79 Build Stronger Together - Leadership and Respectful Workplace Training (Part 1)

Students must bring a laptop.

This training provides those in a leadership role a solid understanding of discrimination, harassment, bullying, and hazing and how they create problems with safety, productivity, and legal liability. It takes a deep dive into real-life cases, including information about the financial outcomes of litigated harassment and discrimination cases. It also provides information on how to recognize unconscious bias. The training then moves into skill building on how to build a respectful workplace where everyone can work safely and productively. Participants will work through several real-life scenarios to learn how to use bystander intervention techniques to address negative workplace behaviors.

JANUARY 6	6:30P - 9:30P	ONLINE
APRIL 14	6:30P - 9:30P	ONLINE
SEPTEMBER 1	6:30P - 9:30P	ONLINE
NOVEMBER 17	6:30P - 9:30P	ONLINE

80 Build Stronger Together - Train-the-Trainer (Part 2)

Prerequisite: Build Stronger Together - Leadership and Respectful Workplace Training (Part 1)

Students must bring a laptop.

This session is designed for those who wish to become instructors able to teach the material covered in the Respectful Workplace Training. This intensive session will give instructors knowledge of the theory underlying the Build Stronger Together program and hands-on practice teaching the material.

JANUARY 8	6:30P - 9:30P	ONLINE
APRIL 16	6:30P - 9:30P	ONLINE
SEPTEMBER 3	6:30P - 9:30P	ONLINE
NOVEMBER 19	6:30P - 9:30P	ONLINE

1002 Planning, Teaching, and Assessing Effective Lessons: Intermediate

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

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

Students must bring a laptop.

In this course, students will learn to enhance engagement and accommodate diverse learning styles by integrating pen-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.

FEBRUARY 4 - MARCH 11 6:30P - 9:30P ONLINE (WEDNESDAYS)

COURSE DESCRIPTIONS

1003 Planning, Teaching, and Assessing Effective Lessons: Advanced

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

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

Students must bring a laptop.

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.

FEbruary 5 - March 12

6:30P - 9:30P

ONLINE (THURSDAYS)

1004 Developing and Presenting Effective Lesson Plans

Prerequisite: 1003 Planning, Teaching, And Assessing Effective Lessons: Advanced

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.

APRIL 6 - MAY 18

6:30P - 9:30P

ONLINE (MONDAYS)

2018 Service Management II (2026 Pilot Course)

Students must bring a laptop.

In this course, participants will acquire the skills necessary to successfully transition from a service technician to a key leadership role in a residential or light commercial HVACR or plumbing service company. The focus will be on the interpersonal skills, operational knowledge, and active responsibilities required for success. This course is interactive and modeled after real-world challenges that occur in service organizations. In addition, the course emphasizes core operational skills, marketing strategies, hiring practices, and employee retention techniques, all essential to building and sustaining a strong service team. Participants will also gain the ability to read, understand, and interpret financial statements such as profit and loss reports, giving them the tools to see how daily decisions directly affect business performance.

APRIL 28 - 30

8:00A - 5:00P

LU 15 - MAPLE GROVE, MN

2030 New Business Development (2026 Pilot Course)

Students must bring a laptop.

This course is designed as a train-the-trainer program to help instructors assist members who are interested in starting a business. This course will assist and guide members through the process of creating a business model, applying for small business loans, understanding signatory contractor obligations through third-party administrators, and the general funding required for starting a business.

APRIL 28 - 30

8:00A - 5:00P

LU 15 - MAPLE GROVE, MN

COURSE DESCRIPTIONS

2095 Advanced Plan Reading

Students must bring a laptop and a mouse.

This course focuses on the process of interpreting, analyzing, problem solving, and the implementation skills associated with the use of construction documentation to coordinate piping systems. Lessons are based on materials from the *Advanced Plan Reading* textbook, construction documentation associated with the text to include full construction documentation in PDF format, and virtual 3D models which are digital replicas of the Great Lakes Training Center. This class will also focus on utilizing the latest technologies with a special emphasis on identifying and applying techniques using new digital tools for the plan reading process. At the conclusion of this course, students will be able to present the process of interpreting, analyzing, problem-solving, and implementation of information to construct a piping system by navigating the specifications, submittals, and construction drawings utilizing modern software to enhance the plan reading process.

Required textbooks or resource materials: *Advanced Plan Reading and Related Drawing* (R/22)

JULY 14 - 16

8:00A - 5:00P

LU 24 - WEST CALDWELL, NJ

2148 OSHA 511: Occupational Safety and Health Standards for General Industry

Students must bring a laptop.

This course is the prerequisite for Course 2149, OSHA 501. It is designed for safety and health personnel, supervisors, workers, and management interested in injury and illness prevention, as well as compliance with OSHA General Industry Standards. It covers OSHA Standards, policies, and procedures in general industry. Topics include the scope and application of the OSHA General Industry Standards, general industry principles, and special emphasis on those areas in general industry that are most hazardous. Upon course completion, students will have the ability to define general industry terms found in the OSHA General Industry Standards, identify hazards that occur in general industry, locate and determine appropriate OSHA General Industry Standards, policies, and procedures, and describe the use of OSHA General Industry Standards and regulations to supplement an ongoing safety and health program.

FEBRUARY 2 - 6

10:00A - 4:30P

ONLINE

APRIL 20 - 24

10:00A - 4:30P

ONLINE

JUNE 22 - 26

10:00A - 4:30P

ONLINE

SEPTEMBER 14 - 18

10:00A - 4:30P

ONLINE

2149 OSHA 501: Trainer Course in Occupational Safety and Health Standards for General Industry

Prerequisite: 2148 OSHA 511: Occupational Safety and Health Standards for General Industry and have at least five years of general industry safety and health experience. Some examples of General Industry work include service, maintenance, inspections, working in a fabrication facility or working at your training facility.

Students must bring a laptop.

In this course, students will gain the ability to teach the OSHA 10-hour and the OSHA 30-hour general industry safety and health outreach programs. Special emphasis is placed on adult learning principles and training techniques to identify, define, and explain general industry hazards, safety, and acceptable corrective measures as required in the program using 29 CFR 1910 OSHA General Industry Standards as a guide. Participants will receive a completion card for the required training to be designated as an OSHA Authorized General Industry Trainer.

APRIL 27 - MAY 1

8:00A - 5:00P

WCC - ANN ARBOR, MI

OCTOBER 19 - 23

8:00A - 5:00P

WCC - ANN ARBOR, MI

COURSE DESCRIPTIONS

2150 OSHA 510: OSHA Standards for the Construction Industry

Students must bring a laptop.

This course is the prerequisite for Course 2151, OSHA 500. It covers construction safety and health principles, as well as 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 9 - 13	10:00A - 4:30P	ONLINE
MAY 11 - 15	10:00A - 4:30P	ONLINE
JULY 13 - 17	10:00A - 4:30P	ONLINE
SEPTEMBER 28 - OCTOBER 2	10:00A - 4:30P	ONLINE
NOVEMBER 16 - 20	10:00A - 4:30P	ONLINE

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

*Prerequisite: 2150 OSHA 510: OSHA Standards for the Construction Industry, and 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.

MARCH 16 - 20	8:00A - 5:00P	WCC - ANN ARBOR, MI
JUNE 15 - 19	8:00A - 5:00P	WCC - ANN ARBOR, MI
OCTOBER 12 - 16	8:00A - 5:00P	WCC - ANN ARBOR, MI
DECEMBER 7 - 11	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 an OSHA-Authorized Construction Trainers in accordance with OSHA Outreach Training Program requirements.

FEBRUARY 9 - 12	10:00A - 4:30P	ONLINE
APRIL 6 - 9	10:00A - 4:30P	ONLINE
JULY 20 - 23	10:00A - 4:30P	ONLINE
SEPTEMBER 21 - 24	10:00A - 4:30P	ONLINE
DECEMBER 14 - 17	10:00A - 4:30P	ONLINE

COURSE DESCRIPTIONS

2160 Safe Pressure Testing for Piping Systems

Students must bring a laptop.

This course provides information on different methods for conducting safe pressure testing operations, associated hazards, and necessary precautions. Safety will be the primary focus. Students will identify and demonstrate safe working practices required to successfully plan, perform, and document pressure tests on industrial, plumbing, and refrigeration piping systems. Pressure test demonstrations will use a combination of detailed images, videos, and interactive hands-on exercises.

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

MARCH 24 - 26

8:00A - 5:00P

WCC - ANN ARBOR, MI

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 emphasis 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 13 - 15

8:00A - 5:00P

LU 188 - SAVANNAH, GA

MARCH 24 - 26

8:00A - 5:00P

LU 296 - MERIDIAN, ID

JUNE 2 - 4

8:00A - 5:00P

LU 367 - ANCHORAGE, AK

SEPTEMBER 15 - 17

8:00A - 5:00P

LU 537 - DORCHESTER, MA

OCTOBER 13 - 15

8:00A - 5:00P

LU 234 - JACKSONVILLE, FL

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 seven-and-a-half hour VitalCog Train-the-Trainer Certification Course. The goals of the 60-minute VitalCog training are to promote critical thinking about suicide prevention, open dialogue about mental health at work, and to promote help-seeking and help-giving behaviors.

FEBRUARY 10 - 12

8:00A - 5:00P

LU 188 - SAVANNAH, GA

APRIL 21 - 23

8:00A - 5:00P

LU 296 - MERIDIAN, ID

JULY 21 - 23

8:00A - 5:00P

LU 367 - ANCHORAGE, AK

NOVEMBER 10 - 12

8:00A - 5:00P

LU 537 - DORCHESTER, MA

DECEMBER 8 - 10

8:00A - 5:00P

LU 234 - JACKSONVILLE, FL

COURSE DESCRIPTIONS

2173 Substance Abuse and Addiction in the Workplace

Students must bring a laptop.

The construction industry ranks among the highest in substance abuse and overdose fatalities! Each one of us can play a part in changing these statistics. In this course, students will gain the ability to increase awareness, prevention, and response to substance abuse and addiction in the construction industry. Students will explore the warning signs, impacts, and solutions to address substance use disorders in the workplace. Special emphasis will be placed on the unique challenges faced by skilled trades, including jobsite safety, productivity, and worker well-being.

FEBRUARY 9 - 12	8:00A - 5:00P	ONLINE
MAY 11 - 14	8:00A - 5:00P	ONLINE
SEPTEMBER 14 - 17	8:00A - 5:00P	ONLINE
NOVEMBER 9 - 12	8:00A - 5:00P	ONLINE

2180 Grooving Fundamentals and Installation

Students must bring a laptop and a mouse for the Revit® project. Please no iPads or tablets.

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 significant portion of this course will involve hands-on training, including designing, fabricating, and installing a grooved piping spool project, which will undergo pressure testing.

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

APRIL 7 - 9	8:00A - 5:00P	VICTAULIC TRAINING FACILITY, ALLENTEW, PA
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3001 Introduction to Teaching Online Using Canvas LMS

Students must bring a laptop.

This course will introduce UA instructors to the essential tools and features of the Canvas Learning Management System (LMS). It will offer a comprehensive introduction to Canvas course creation and design, featuring step-by-step instructions and practical insights on how to become acquainted with Canvas. This course does not cover LMS migration or administration skills.

By the end of this course, you will:

- Understand how to create, organize, and manage material in a Canvas course to prioritize student learning and comprehension.
- Begin to identify, organize, and create different types of instructional materials in Canvas, including text, multimedia, and quizzes.
- Identify and use high-quality resources to get appropriate guidance when creating, planning, and teaching in Canvas.

Future Canvas instructors: If you are new to teaching with Canvas, this course will equip you with the practical knowledge needed to build a course in Canvas.

JANUARY 21 - 23	8:00A - 5:00P	LU 525 - LAS VEGAS, NV
APRIL 13 - 24	5:30P - 9:00P	ONLINE (MONDAY, WEDNESDAY, FRIDAY)
JUNE 2 - 4	8:00A - 5:00P	LU 525 - LAS VEGAS, NV

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.

JUNE 16 - 18	8:00A - 5:00P	LU 268 - ST. LOUIS, MO
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COURSE DESCRIPTIONS

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.

JUNE 16 - 18

8:00A - 5:00P

LU 268 - ST. LOUIS, MO

3093 Accelerated Revit®

Students must bring a laptop.

Embark on a transformative journey with our Accelerated Revit® Training Course, meticulously designed for 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!

TBD

TBD

TBD

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.

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 will also 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.

Required textbooks or resource materials: *Backflow Prevention Reference Manual*, Fourth Edition (R/22)

MARCH 16 - 20

8:00A - 5:00P

LU 75 - MADISON, WI

COURSE DESCRIPTIONS

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.

Required textbooks or resource materials: *Plumbing Service, Maintenance, and Repair (ATP) (R/17)*

APRIL 27 - MAY 1

8:00A - 5:00P

LU 15 - MAPLE GROVE, MN

4011 Medical Gas Instructor ASSE 6050

NITC Certification fees apply and are the student's responsibility. (See fee schedule.) For more detailed information, please review NITC/Certification-Details-6050.

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:

- 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 installing 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.

Required textbooks or resource materials: *NFPA-99, Health Care Facilities Code, 2024 Edition; NFPA Medical Gas and Vacuum Systems Handbook, 2024 Edition; ASSE 6000 Series Professional Qualifications Standard for Medical Gas Personnel, 2024 edition.*

APRIL 13 - 17

8:00A - 5:00P

WCC - ANN ARBOR, MI

4014 Medical Gas Maintenance ASSE 6040

Prerequisite: 4011 Medical Gas Instructor

NITC Certification fees apply and are the student's responsibility. (See fee schedule.) For more detailed information, please review NITC/Certification-Details-6040.

Students must bring a laptop.

This course provides training for the ASSE 6040 Medical Gas Maintenance certification. It focuses on the 2024 edition of NFPA 99 and the ASSE 6000 Series standards governing the maintenance of medical gas and medical/surgical vacuum piping systems. Students will learn requirements for maintaining these systems safely and effectively, including Infection Control Risk Assessment (ICRA) practices, confined space safety requirements, and safe work practices specific to medical gas maintenance. Upon completing the coursework and passing the final online exam, students will earn certification through NITC as ASSE 6040. Medical Gas Maintenance personnel.

Participants will also gain instructional knowledge to help bring this training back to their local and incorporate it into their programs.

Prerequisites:

Candidates must meet the following requirements:

- Currently employed or contracted by a health care facility or actively engaged in medical gas systems work.
- Minimum of one year of experience in medical gas and vacuum systems maintenance.
- Hold a current ASSE 6050 Medical Gas Instructor certification.

Required textbooks or resource materials: *NFPA-99, Health Care Facilities Code, 2024 Edition; NFPA Medical Gas and Vacuum Systems Handbook, 2024 Edition; ASSE 6000 Series Professional Qualifications Standard for Medical Gas Personnel, 2024 edition.*

MARCH 2 - 6

8:00A - 5:00P

WCC - ANN ARBOR, MI

COURSE DESCRIPTIONS

4081 Pipe Rehabilitation (2026 Pilot Course)

Students must bring a laptop.

This course will introduce beginners to trenchless point repair solutions, providing a foundational understanding and extensive hands-on experience. Learners will explore the principles of point repair, including the types of available systems (standard, elbow, Medusa, and flow-through packers), as well as installation techniques. Emphasis is placed on real-world application, safety, and failure prevention.

APRIL 7 - 9

8:00A - 5:00P

LAKE MILLS, WI

4100 Customer Service for the UA Craftsperson

Students must bring a laptop.

This course is intended to assist participants in developing and presenting classroom instruction in the UA Customer Service Program. Students discuss the requirements for great customer service and will review techniques to implement customer service in their existing curriculum. Participants will be utilizing various learning techniques including role-play, videos, and DISC Personality Profiles along with resources created by MCAA and the UA to assist them within their curriculum.

Required textbooks or resource materials: *MSCA Customer Service Student Workbook & Leaders Guide,*

Customer Service Skills Flash Cards

MARCH 3 - 5

8:00A - 5:00P

LU 449 - HARMONY, PA

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 at their home locals and build a pipefitter fundamentals class that fits their local needs.

Required textbooks or resource materials: *IPT Pipe Trades Workbook* (spiral-bound)

MARCH 3 - 5

8:00A - 5:00P

LU 342 - CONCORD, CA

5009 Industrial Rigging Technologies

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

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

Participants will receive training in the planning and precautions necessary for lifting materials and equipment. Students will learn the proper and safe rigging of loads, the proper application of slings and rigging hardware, the advantages and disadvantages of each piece of rigging gear, the uses of rigging hardware, the determination/calculations of rigging loads and equipment, the proper maintenance of rigging equipment, and the rigging of 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. Please bring work gloves.

Required textbooks or resource materials: *Rigging* (R/24), *IPT Crane and Rigging Handbook* (spiral-bound), *Signaling* (F/25)

APRIL 28 - 30

8:00A - 5:00P

WCC - ANN ARBOR, MI

COURSE DESCRIPTIONS

5011 Industrial Rigging Certification for Instructors

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

Prerequisite: 5009 Industrial Rigging Technologies, pre-course preparation detailed below.

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

In this course, students will be provided with theoretical and practical components that cover industry-recognized rigging practices, including calculating centers of gravity, sling stress, crane setup, crane components, and signals. Also, the use of tuggers, jacks, and rollers will be discussed. Instructor's rigging skills will be evaluated by using written and hands-on performance exams. Students must perform a sequence of crane lifts using multiple types of rigging equipment. Industrial rigging and crane signaling training modules will be demonstrated and used.

Pre-Course Prerequisite:

Student requirements before attending this course:

- Review pages 1 to 163 – *IPT Crane and Rigging Handbook*
- Review the *Rigging* textbook.

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

Required textbooks or resource materials: *Rigging* (R/24); *IPT Crane and Rigging Handbook* (spiral-bound); *Signaling* (F/25)

OCTOBER 12 - 16

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.

Required textbooks or resource materials: *Signaling* (F/25)

APRIL 28 - 30

8:00A - 5:00P

WCC - ANN ARBOR, MI

5015 Advanced Tube Bending

Students must bring a laptop.

This course begins by covering the parts of a bender, the simple bending process, and the Setback, Advance, Gain (SAG) process. The majority of the course is the study of the SAG method of bending. A general understanding of trigonometry is required, but a review of the fundamentals will be covered. Most of the course is devoted to making equal spread offsets and rolling offsets using tube benders. Discussions will take place by applying the learned concepts of using the tangent line to solve various piping-related scenarios, such as mitering a pipe to create fittings, cutting back a weld elbow to make a fitting less than 90 degrees, and calculating the takeoff of the new fitting. The last portion of this course will be devoted to preparing students to teach at their home locals. Upon completing this course, students will take both a written and hands-on performance certification exam. All resources, including worksheets and PowerPoint presentations, will be provided to students in digital format.

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

Required textbooks or resource materials: *Tube Bending* (R/13)

MARCH 31 - APRIL 2

8:00A - 5:00P

WCC - ANN ARBOR, MI

OCTOBER 27 - 29

8:00A - 5:00P

WCC - ANN ARBOR, MI

COURSE DESCRIPTIONS

5025 Implementing a Gas Distribution Pipeline Training Program

Students must bring a laptop.

In this course, students will review the UA resources and recommended equipment to implement a Gas Distribution Pipeline Training Program at their local union. McElroy fusion equipment for manual, hydraulic butt fusion, and sidewall fusion will be demonstrated. In addition, tapping and stopping pipelines under pressure and residential meter set installation will be demonstrated using Mueller Company equipment.

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

APRIL 28 - 30	8:00A - 5:00P	LU 32 - RENTON, WA
SEPTEMBER 22 - 24	8:00A - 5:00P	LU 597 - MOKENA, IL

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.

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

MAY 4 - 8	8:00A - 5:00P	JOHNSON CONTROLS, NEW FREEDOM, PA
OCTOBER 12 - 16	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 29 - OCTOBER 1	8:00A - 5:00P	JOHNSON CONTROLS, IRVING, TX
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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.

MARCH 31 - APRIL 2	8:00A - 5:00P	JOHNSON CONTROLS, IRVING, TX
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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, water side flow rate analysis, maintenance requirements, and logging machine data.

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

NOVEMBER 3 - 5	8:00A - 5:00P	CARRIER TRAINING CENTER, CHARLOTTE, NC
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COURSE DESCRIPTIONS

6046 York YMC2 Magnetic Bearing Overhaul

Students must bring a laptop.

This class will include lectures and hands-on sessions, during which the technician will learn the latest techniques to overhaul the York YMC2 Magnetic Bearing Centrifugal Compressor. 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 of the centrifugal compressor.

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

FEBRUARY 24 - 27	7:00A - 3:30P	EMCOR TRAINING CENTER, PHOENIX, AZ
MARCH 17 - 20	7:00A - 3:30P	EMCOR TRAINING CENTER, PHOENIX, AZ
SEPTEMBER 15 - 18	7:00A - 3:30P	EMCOR TRAINING CENTER, PHOENIX, AZ
OCTOBER 20 - 23	7:00A - 3:30P	EMCOR TRAINING CENTER, PHOENIX, AZ

6070 Screw Chiller Service & Troubleshooting (Daikin)

Prerequisite: Daikin's "Screw Chiller Maintenance & Operation" online course (\$200). This must be completed before attending the in-person course (<https://www.daikinapplied.com/training/our-training>). Please also verify this information before attending. Certification fees apply and are the student's responsibility.

Students must bring a laptop.

This course is structured to provide basic classroom instruction, demonstrations, and hands-on exercises designed to familiarize the student with the product features, operation, maintenance, and service requirements for Daikin Screw Chiller products. The standard program for the maintenance, operation, and service seminar is four and one-half days of intensive training. The products covered in this seminar will be the AGS, AWS, and AWV air-cooled screw chillers, and the WGS and WWV water-cooled chiller screw chiller.

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

MARCH 11-12	8:00A - 5:00P	DAIKIN PLANT, VERONA, VA
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6071 WMC Service & Troubleshooting (Daikin)

Prerequisite: Daikin's "WMC Maintenance and Operation" online course (\$200). This must be completed before attending the in-person course (<https://www.daikinapplied.com/training/our-training>). Please also verify this information before attending.

Certification fees apply and are the student's responsibility.

Students must bring a 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 29 - 30	8:00A - 5:00P	LU 449 - HARMONY, PA
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6072 WME Gen-II Service & Troubleshooting (B, C, D Vintages)

Prerequisite: Daikin's "WME Gen II Maintenance & Operation (B, C & D Vintages)" online course (\$200). This must be completed before attending the in-person course (<https://www.daikinapplied.com/training/our-training>). Please also verify this information before attending.

Certification fees apply and are the student's responsibility.

Students must bring a laptop.

In this two day hands-on class, participants will gain experience by working on typical service and troubleshooting scenarios that involve: chiller controls, downloading and configuring software, navigating the OITS and pulling customer trends, shimming the impeller, mag bearing controls, rebuilding the IGV assembly, chiller startup and inspection, and Fuji VFD communication and diagnostics.

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

MAY 19 - 21	8:00A - 5:00P	DAIKIN PLANT, VERONA, VA
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COURSE DESCRIPTIONS

6077 Carrier 30 Series and 23XRV Chiller Fundamentals, Operation, Maintenance, and Service

(Carrier Corporation)

Students must bring a laptop.

HVAC technicians who complete this course will have learned how to operate, maintain, troubleshoot, and service Carrier 30 series screw and scroll chillers, as well as 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.

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

MAY 11 - 15

8:00A - 5:00P

CARRIER TRAINING CENTER, CHARLOTTE, NC

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.

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

APRIL 14 - 16

8:00A - 5:00P

LU 449 - HARMONY, PA

NOVEMBER 3 - 5

8:00A - 5:00P

LU 412 - ALBUQUERQUE, NM

6117 CVHE/CVHF Overhaul (Trane)

Students must bring a laptop.

This class will include lectures and hands-on sessions, during which the technician will learn the latest techniques to overhaul the Trane CVHE and CVHF centrifugal chillers. 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.

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

MARCH 17 - 20

7:00A - 3:30P

EMCOR TRAINING CENTER, PHOENIX, AZ

APRIL 7 - 10

7:00A - 3:30P

EMCOR TRAINING CENTER, PHOENIX, AZ

SEPTEMBER 22 - 25

7:00A - 3:30P

EMCOR TRAINING CENTER, PHOENIX, AZ

OCTOBER 27 - 30

7:00A - 3:30P

EMCOR TRAINING CENTER, PHOENIX, AZ

6118 Combustion Efficiency Products (2026 Pilot Course)

Students must bring a laptop.

This class focuses on the installation, programming, commissioning, and troubleshooting of the Fireye Nexus 4000 & 6000 series burner controls, and the Siemens LMV3 and LMV5 burner controls. Students will get hands-on experience with each of the controllers and receive instructor recourses to take home to use in their apprenticeship programs.

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

TBD

TBD

TBD

7002 Foam Fire Protection System Training

Students must bring a laptop.

This hands-on training course provides in-depth instruction on high and low-expansion foam systems using live equipment, including foam concentrate tanks and multiple valve configurations. Designed specifically for special hazards and ITM instructors, this course equips participants with the knowledge and skills to incorporate foam fire protection systems into their own training programs. The first portion of the class focuses on installation requirements, system setup, and the operational differences between high and low expansion foams. The second portion emphasizes Inspection, Testing, and Maintenance (ITM) procedures, including system troubleshooting and repair techniques.

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

OCTOBER 6 - 8

8:00A - 5:00P

LU 709 - WHITTIER, CA

COURSE DESCRIPTIONS

7003 Water Mist Systems

Students must bring a laptop.

This course provides students with a comprehensive understanding of water mist systems, including their design principles, installation processes, and operational functions. Participants will explore the science behind water mist technology while learning proper installation techniques, testing procedures, and system acceptance requirements. The course will also cover Inspection, Testing, and Maintenance (ITM) requirements per NFPA 25. In addition, students will review and discuss the requirements outlined in NFPA 750 to ensure compliance with industry standards.

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

MARCH 31 - APRIL 2

8:00A - 5:00P

LU 483 - HAYWARD, CA

7010 Special Hazard Fire Protection ASSE 27010

Students must bring a laptop.

This course will guide you through the installation, testing, inspection, and maintenance requirements of NFPA 770 for hybrid systems. This course will establish minimum knowledge and performance criteria applicable to a hybrid fire extinguishing system, in compliance with NFPA 770. It will also include general knowledge of system operation and components, listing and approvals, as well as research on applicable standards. At the end of this course, students will have the opportunity to receive an ASSE 27010 Installation or 27020 ITM certification for hybrid fire extinguishing systems, which includes both a written and practical test.

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

MAY 6 - 8

8:00A - 5:00P

VICTAULIC TRAINING FACILITY, ALLENTOWN, PA

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.

JANUARY 13 - 15

8:00A - 5:00P

LU 1 - LONG ISLAND CITY, NY

MARCH 3 - 5

8:00A - 5:00P

LU 208 - DENVER, CO

MAY 5 - 7

8:00A - 5:00P

LU 449 - HARMONY, PA

NOVEMBER 17 - 19

8:00A - 5:00P

LU 525 - LAS VEGAS, NV

8001 AWS CWI® Prep Course

Prerequisite: Five years of welding experience, high school graduate or equivalent degree.

Please check your email daily for important information regarding AWS portal. Failure to follow these instructions may lead to your removal from the course. 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 prep course is designed to prepare members to complete and pass the AWS CWI examinations. Participants will learn about welding processes, procedures, symbols, inspection techniques, and code interpretation. Combining classroom instruction, interactive codebook exercises using common inspection tools, and timed mock exams, the course coaches each participant to develop the confidence and competency needed to excel in all three parts of the AWS CWI examinations. The AWS CWI credential is recognized globally as the standard for weld inspection and quality control. It is also one of the requirements to administer UA weld tests as an Authorized Test Representative.

JANUARY 31 - FEBRUARY 7

8:00A - 5:00P

LU 208 - DENVER, CO

MARCH 7 - 14

8:00A - 5:00P

LU 208 - DENVER, CO

MARCH 21 - 28

8:00A - 5:00P

LU 502 - LOUISVILLE, KY

APRIL 11 - 18

8:00A - 5:00P

LU 502 - LOUISVILLE, KY

MAY 30 - JUNE 6

8:00A - 5:00P

LU 208 - DENVER, CO

JUNE 6 - 13

8:00A - 5:00P

LU 502 - LOUISVILLE, KY

JULY 18 - 25

8:00A - 5:00P

LU 208 - DENVER, CO

SEPTEMBER 12 - 19

8:00A - 5:00P

LU 502 - LOUISVILLE, KY

OCTOBER 3 - 10

8:00A - 5:00P

LU 208 - DENVER, CO

OCTOBER 17 - 24

8:00A - 5:00P

LU 502 - LOUISVILLE, KY

COURSE DESCRIPTIONS

8013 Methods in Teaching GMAW/FCAW

Prerequisite: Current Gas Metal Arc Welding (GMAW) UA Welder Certification

Students must bring a laptop.

This course covers wire-feed welding techniques used in fabrication shops and field applications. The course focuses on how to teach advanced techniques using gas metal arc welding and flux core arc welding for a variety of material types and thicknesses. Students will perform hands-on practical application in 1G, 2G, and 5G positions as they develop the skills necessary to teach wire-feed welding at local training centers. There will be an emphasis on common carbon steel and stainless-steel practical applications.

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

(Students must bring their own welding hood, welding jacket, and welding gloves.)

Required textbooks or resource materials: *Welding Practices and Procedures for the Pipe Trades (ATP) (F/16)*

MARCH 3 - 5	8:00A - 5:00P	LU 440 - INDIANAPOLIS, IN
APRIL 14 - 16	8:00A - 5:00P	LU 537 - DORCHESTER, MA
JUNE 2 - 4	8:00A - 5:00P	LU 10 - RICHMOND, VA

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.

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

(Students must bring their own welding hood, welding jacket, and welding gloves.)

MARCH 10 - 12	8:00A - 5:00P	LU 290 - TUALATIN, OR
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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.**

Required textbooks or resource materials: *Course 8047 Binder*

APRIL 20 - 24	8:00A - 5:00P	LU 81 - SYRACUSE, NY
JUNE 1 - 5	8:00A - 5:00P	WCC - ANN ARBOR, MI
SEPTEMBER 14 - 18	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 course 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. Upon completing this course, participants will take the UA GFIR certification exam.

Required textbooks or resource materials: *Course 8048 Binder*

OCTOBER 20 - 22	8:00A - 5:00P	LU 81 - SYRACUSE, NY
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COURSE DESCRIPTIONS

8091 Advanced GMAW Chrome Alloy Heavy Wall Welding

Prerequisite: Current GMAW Welder Certification or Completion of Course 8013

Students must bring a laptop.

This course covers advanced pipe welding techniques used in the power and process piping industries. The course focuses on how to teach advanced techniques using gas metal arc welding and flux core arc welding for a variety of material types and thicknesses. Students will perform hands-on practical application in 2G and 5G positions as they develop the skills necessary to address the critical welding needs. There will be an emphasis on chrome alloy theory and practical application.

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

(Students must bring their own welding hood, welding jacket, and welding gloves.)

JULY 13 - 17	8:00A - 5:00P	LU 354 - YOUNGWOOD, PA
SEPTEMBER 14 - 18	8:00A - 5:00P	LU 354 - YOUNGWOOD, PA
OCTOBER 19 - 23	8:00A - 5:00P	LU 354 - YOUNGWOOD, PA

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 17 - 19	8:00A - 5:00P	ONLINE
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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.

MARCH 31 - APRIL 2	8:00A - 5:00P	ONLINE
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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#</u>	<u>Title</u>	<u>Required Material</u>
2095	Advanced Plan Reading	<i>Advanced Plan Reading and Related Drawing (R/22)</i>
4006	Methods in Teaching Backflow Prevention Certification	<i>Backflow Prevention Reference Manual, Fourth Edition (R/22)</i>
4009	Methods in Teaching Plumbing Service, Maintenance, Repair	<i>Plumbing Service, Maintenance, and Repair (R/21)</i>
4011	Medical Gas Instructor ASSE 6050.....	<i>NFPA 99, Health Care Facilities Code, 2024 Edition; NFPA Medical Gas and Vacuum Systems Handbook, 2024 Edition; ASSE Series 6000 Professional Qualifications Standard for Medical Gas Personnel, 2024 Edition</i>
4014	Medical Gas Maintenance ASSE 6040	<i>NFPA 99, Health Care Facilities Code, 2024 Edition; NFPA Medical Gas and Vacuum Systems Handbook, 2024 Edition; ASSE Series 6000 Professional Qualifications Standard for Medical Gas Personnel, 2024 Edition</i>
4100	Customer Service for the UA Craftsperson	<i>MSCA Customer Service Student Workbook & Leaders Guide; Customer Service Skills Flash Cards</i>
5005	Pipe Fitting Fundamentals	<i>IPT Pipe Trades Training Manual (spiral-bound)</i>
5009	Industrial Rigging Technologies	<i>Rigging (R/24), IPT Crane and Rigging Handbook (spiral-bound), Signaling (F/25)</i>
5011	Industrial Rigging Certification for Instructors	<i>Rigging (R/24), IPT Crane and Rigging Handbook (spiral-bound), Signaling (F/25)</i>
5012	UA Crane Signal Person Certification for Instructors	<i>Signaling (F/25)</i>
5015	Advanced Tube Bending	<i>Tube Bending (R/13)</i>
8013	Methods in Teaching GMAW/FCAW	<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 courses at:

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

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

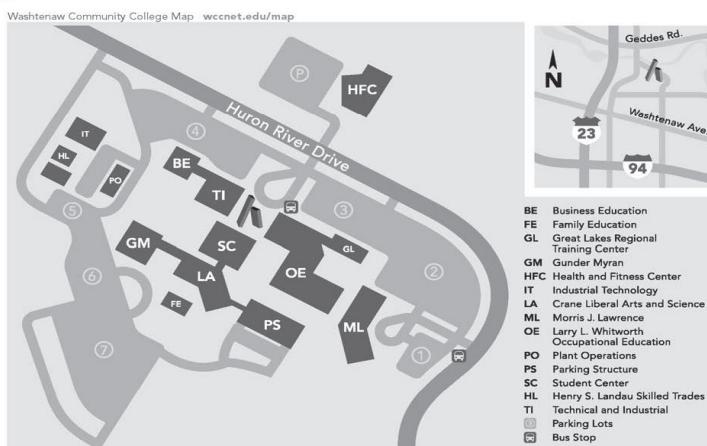
- Answer any questions about Regional Training Center services
- Assist students in web-based classes using a Learning Management System (LMS)
- Help instructors develop online classes
- Facilitate student participation in WCC courses
- Provide academic advising for WCC associate degrees
- Evaluate transfer credits from other academic institutions
- Facilitate 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 toward 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.



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://asse-plumbing.org/>

Canvas Login

<https://wccnet.instructure.com/login/canvas>

Destination Ann Arbor

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

JATC Bookstore

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

OSHA

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

National Inspection Testing Certification (NITC)

<https://nitc.com/>

INTERNATIONAL PIPE TRADES JOINT TRAINING COMMITTEE (BOOKSTORE)

Dianne Lash, Manager

Email: iptbookstore@uanet.org

Phone: (301)218-1241

Fax: (301)218-8961

WCC-UA CANVAS HELP DESK SUPPORT

Email: uahelp@wccnet.edu

Phone: (734)249-5966

REGISTRAR'S OFFICE & CERTIFICATIONS

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WASHTENAW COMMUNITY COLLEGE

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Arista Williams, Managing Director of WCC/UA

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DESTINATION ANN ARBOR

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Phone: (734)492-8122

ONLINE LEARNING RESOURCES

Lauren Friedman, Instructional Technology Coordinator

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

