

2024

REGIONAL TRAINING COURSE CATALOG



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United Association Building
Three Park Place
Annapolis, MD 21401
(410) 269-2000
<http://www.ua.org>

December 2023

Dear Brothers and Sisters,

The UA Education and Training Department recognizes the importance of in-person training and has included many options in our 2024 Regional line-up with the help of our partners at Washtenaw Community College. We are immensely proud of the hard work that UA instructors throughout North America have put in to make these last few years a productive and enriching learning experience. The performance of our in-person and online training schedule reflects that hard work.

Throughout the year, the UA Education and Training Department works hard to provide various opportunities for instructors to receive advanced industry training. We are always striving to offer relevant and accessible training, resulting in the UA's ability to continue to offer instructors the superior training necessary to benefit our workforce in the present and future.

As in previous years, many courses are available for each trade sector. You will find that courses are available throughout the year at Local Union Training Centers, in an online format, at the UA's Great Lakes Regional Training Center at Washtenaw Community College, as well as at industry-specific locations. Courses will continue to be added throughout the year, so please utilize the "Program Information" tab to stay up to date.

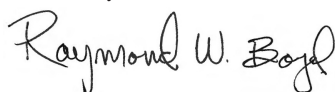
This year we are pleased to offer a few new and reoccurring courses to our Regional course line-up, which include *Semiconductor Orbital Tube Welding*, *Semiconductor Plastic Fitter*, *Semiconductor Stainless Steel Fitter*, *Medical Gas Instructor 6050*, *Grooving Fundamentals and Installation*, *Opioids in the Workplace: Prevention and Response*, *UA/MCAA Foreman Certification*, as well as our professional courses continually being offered online. We encourage you to review the courses offered so that your instructors may increase their expertise.

All courses require a minimum number of students in attendance to warrant holding it, therefore, we are encouraging you to register early and to contact our office if there are any questions regarding the status of any course. Please refer to the final course confirmations before making travel arrangements. Any questions should be directed to the Registrar's Office at 410-269-2000, cathym@uanet.org, or tmasen-gale@uanet.org.

Please note that we will need all students to notify us as soon as they learn they are not able to attend a course. Failure to do so may impact their ability to register for future courses, 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 2024 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. The most up-to-date available versions of the policies, procedures, and course offerings are contained in the electronic version of this document which may be accessed at uanet.org.”

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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 journeyworkers.

The International Training Fund offers a number of regional training opportunities throughout the year. These courses are offered at various local union training centers; in addition, courses are available online, at the Great Lakes Regional Training Center, and at UA headquarters in Annapolis, MD.

Course Registration

Course registration is available online at <https://uanet.org>. Select the tab, 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

UA STAR® Exam Fees:

(Payable to NITC)

Contact Renee Yount at 877-457-6482

Certification = \$150.00

Recertification = \$100.00

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 Z87.1-1968 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 – 2021.

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 – 2021.

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 – 2021.

GRADUATION REQUIREMENTS

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

200-Hour Instructor Certificate Program

To receive a certificate of completion, UA instructors must successfully complete a total of 200 course hours. This includes 100 hours of professional courses and 100 hours of elective courses. In addition, students must also complete six Reflective Teaching Assignments (RTAs) in order to earn a certificate as a *Certified Instructor of Journeyworkers and Apprentices in the Plumbing and Pipe Fitting Industry*.

Professional Courses

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

1001 (101).....	Planning, Teaching, and Assessing Effective Lessons: Beginner
1002 (102).....	Planning, Teaching, and Assessing Effective Lessons: Intermediate
1003 (103).....	Planning, Teaching, and Assessing Effective Lessons: Advanced
1004 (104).....	Course Planning and Problem Solving and 20-hour elective (ITP course)
1010 (510).....	Public Speaking (ITP course)

Plus Five 20-Hour Applied and Technical Courses

Note: Students may not register for the next professional course unless all requirements for the previous professional course, including the RTAs, have been completed.

Coordinator courses do not count toward the Instructor Certificate Program.

120-Hour Coordinator Certificate Program

To receive a certificate of completion, attendees will need to complete a total of 120 hours of courses, including three required courses (60 hours) out of the six needed. The title *Certified Coordinator of Journeyworkers and Apprentices in the Plumbing and Pipe Fitting Industry* will be conferred upon those who satisfactorily complete the program.

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

Three Required Courses

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

Plus Three Coordinator Electives

1010 (510)	Public Speaking
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

UA University 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 course-work 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.

Online education offers you the opportunity to study whenever it fits into your life—whether that's at 5 am 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 re-organizing your life around education.

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

You must meet some requirements to take online classes. Why? Because we want you to succeed. We have found that students who don't meet the requirements frequently have trouble with online classes. Please complete WCC ROLL (Ready for Online Learning) course. This will help you answer questions about online learning and what it is all about, and more. ROLL focuses on: Academic and Life Skills, Commitment, Organization, Time Management, Stress Management, Technology Skills, WCC's Services, and so much more.

This ROLL course takes approximately 1-2 hours to finish and you must allow adequate time for videos and animation activities to play completely as you progress through the course. Jumping ahead and not allowing content to complete, may cause errors, forcing you to start over or not receive credit for modules completed.

Access ROLL by link: <https://www.wccnet.edu/learn/class-types/online/roll.php>

Contacts

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: www.wccnet.edu/uauniversity

REQUIRED TEXT MATERIALS

Note: You must bring the required material to class. If you do not have this material, the following items are available for purchase through the UA/IPT Bookstore or as indicated.

Course #	Description	Required Material
2012	UA/MCAA Foreman Certification	UA Foreman Training Manual (U/22)
2171	Introduction to Peer Support Skills and Mental Health Literacy	Guts, Grit, and the Grind: Basic Mechanics
2172	Advanced Skills in Suicide Prevention Training, Peer Support Skills and Mental Health Literacy.....	Guts, Grit, and the Grind: Advanced; VitalCog for Construction Toolkit, Workbook, Wallet Cards and Stickers
4006	Methods in Teaching Backflow Prevention Certification	Backflow Prevention Reference Manual, Fourth Edition (R/22); ASSE Series 5000 Professional Qualification Standard (Latest Edition)
4011	Medical Gas Instructor.....	NFPA-99, Health Care Facilities Code, 2021 Edition; NFPA Medical Gas and Vacuum Systems Handbook, 2021 Edition; ASSE 6000 Series Professional Qualifications Standard for Medical Gas Personnel, 2021 Edition
5009	Industrial Rigging Technologies.....	Rigging (R/04); IPT Crane and Rigging Handbook (spiral-bound); Signal Person Training Course Instructor Guide
5011	Industrial Rigging Certification for Instructors	Rigging (R/04); IPT Crane and Rigging Handbook (spiral-bound)
5012	UA Crane Signal Person Certification for Instructors.....	Signal Person Training Course Student Guide (ETS); Signal Person Training Course Instructor Guide (ETS)
8001	AWS CWI® Prep Course.....	API 1104 (22nd Edition) Welding Pipelines and Related Facilities
8013	Methods in Teaching Gas Metal Arc Welding (GMAW)	Welding Practices and Procedures for the Pipe Trades (ATP, F/16)
8047	Semiconductor Orbital Tube Welding.....	Course Binder

Purchase Material for all Regional Training Courses at:

International Pipe Trades Joint Training Committee (Bookstore)
 687-B Commerce Drive
 Upper Marlboro, MD 20774
 Telephone: 301-218-1241
 Fax: 301-218-8961
 E-Mail: iptbookstore@uanet.org or diannel@uanet.org
 Shop online: shop.iptbookstore.com

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

Prerequisites to Registering

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

It is with this commitment in mind that members registering to take the UA/ EPRI Industrial Rigging and Crane Signalperson Certification Examination Course 5011 must have completed the 20-hour UA training course on Industrial Rigging Technologies. This course, 5010 or 5009 Industrial Rigging Technologies, will ensure 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.

Only those individuals who have completed Course 5010 or 5009 Industrial Rigging Technologies are eligible to take the UA/EPRI Industrial Rigging and Crane Signalperson Certification Examination Course. The 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. A score of 80% or above must be achieved on the written examination. 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. All elements of the hands-on performance examination must be completed satisfactorily to pass.

The implementation of these changes to the UA/EPRI Industrial Rigging and Crane Signalperson Certification Program is a continuation of the United Association's commitment to ensure that the best trained and qualified personnel are available for all future rigging requirements in the construction industry.

Level I - The Written Test

To pre-qualify for Level I certification, individuals must have attended and completed an approved UA or IBEW instrumentation class, or the individual must hold a Level II certification and have a minimum of five years of instrumentation calibration experience.

Once pre-qualified, those seeking certification must sit for a written test. This closed-book, open-note exam is comprised of 200 questions covering the various aspects of instrumentation, electrical and mechanical theory, and instrument calibration. A three-and-a-half (3.5) hour time period is allowed for completion of this exam. There is no “grandfathering.” Anyone requesting to certify is required to take the test.

The UA has developed an online version of the exam which is now available through ASSE. This method will allow a journeyworker to instantly receive feedback with their results for the exam. The same prerequisites apply to this exam and the content will be identical to the written version.

Level II - The Practical Test

Once an individual has successfully completed the written certification test, he or she is eligible to take the Level II - practical exam. The practical exam is a hands-on proficiency test. Students will be required to perform various calibrations on an assortment of different instruments using the test and calibration equipment provided. This portion of the exam is performed on a one-on-one basis with a test administrator. The test administrator will be observing and validating the process that is used to ensure that the procedures are performed according to recognized industry standards. There is no “grandfathering.”

Practical Test Format

This test may contain two types of steps: discussion (D) or performance (P). Discussion steps are administered to the examinee simply by asking them the appropriate questions written in the exercise. Performance steps are administered by having the examinee actually perform the steps using the necessary tools and equipment.

The evaluation is a pass/fail test. The calibration equipment and instrumentation listed below will be provided for the test. The examinee will be expected to select the appropriate test equipment from the test equipment listed when performing a calibration on the transmitters and field equipment during the exam. This exam is strictly an evaluation of the calibration process and does not cover the mounting or installation of the devices.

Calibration Equipment:

- Transmation PneuXal IV - Process Calibrator
- Fluke 700P06 - Pressure Module
- Transcat 23232E - DC Power Supply
- Fluke 744 - Process Calibrator
- Fluke 87 - Digital Multimeter
- Altek 334A - Milliamp Calibrator
- Rosemount (HART) Communicator

Transmitters and Field Devices:

- Rosemount 1151 - Differential Pressure Transmitter (Smart and Analog)
- Asco Pressure Switch
- Rosemount I/P (current to pressure) Transducer
- Rosemount 3051 - Differential (Gauge) Pressure Transmitter
- Rosemount 3144P - Temperature Transmitter

Additional information for UA Instrumentation Certification is available on <http://uanet.org>.

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 microturbines. 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 Blackboard™
- 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 2,000 selected UA instructors take a variety of college level courses to become certified UA apprentice instructors. These courses are also applicable towards an associate degree in industrial training.

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

Staff

Marilyn Donham

Dean, Skilled Trades Training

Anthony Esposito

Technical Director

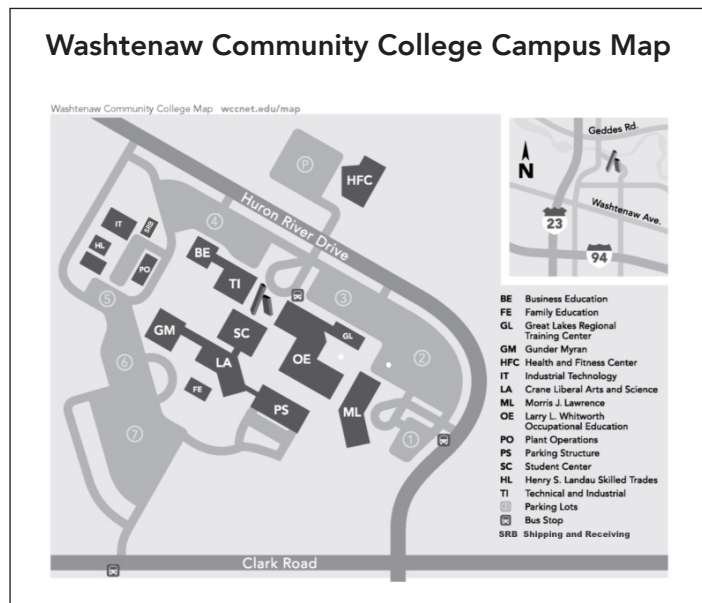
Kim Billings

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**

To get the IP address for the websites listed below, go to:

[American Society of Sanitary Engineers \(ASSE\)](#)
[Destination Ann Arbor](#)
[Blackboard™ Help Page](#)
[Blackboard™ Login](#)
[Local Union Training Directory Lookup](#)
[JATC Bookstore](#)
[Occupational Safety & Health Administration \(OSHA\)](#)
[National Inspection Testing Certification](#)

REGISTRAR'S OFFICE

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 Email: cathym@uanet.org
 Telephone: (410) 269-2000, ext. 4028
 Fax: (410) 267-0382

Tyler Masengale, Assistant Registrar
 Email: tmasengale@uanet.org
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CERTIFICATIONS

Carrie King, Manager
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Angie Sterling
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ONLINE LEARNING RESOURCES

Lauren Friedman, Instructional Technology Coordinator
 Email: lfriedman@uanet.org
 Telephone: (410) 269-2000, ext. 5063

INTERNATIONAL PIPE TRADES JOINT TRAINING COMMITTEE (BOOKSTORE)

Dianne Lash, Manager
 Email: iptbookstore@uanet.org
 Telephone: (301) 218-1241
 Fax: (301) 218-8961

WCC UA BLACKBOARD™ HELP DESK SUPPORT

Telephone: (734) 477-8908
 24/7 Voice Line Help: 1-800-218-4341

WASHTENAW COMMUNITY COLLEGE

Tony Esposito, Technical Director of UA Programs and Services
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Kristy Poore, National Sales Account Executive
 Email: kpoore@annarbor.org
 Hospitali-key (734) 717-7282
 Phone: (734) 995-7281, ext. 305
 Toll-free: 1-800-888-9487
 Fax: (734) 995-7283

