

Plumbing (ABC)

A 4-year, 19.25-credit Apprenticeship

About the Apprenticeship

Gain the skills and knowledge to plan, install and service plumbing systems through this Plumbing Apprenticeship, offered through the Associated Builders and Contractors of Wisconsin and WCTC. Work as an indentured apprentice for an approved plumbing contractor and complete on-the-job experience under the direction and tutorage of a journeyperson plumber.

Related instruction is held at WCTC on a day and evening basis. Day classes, for a total of 500 hours, are held on a one-day-per-week schedule. Evening classes are scheduled on a two-year rotation. Some classes are offered continuously.

How to Get Started

- Contact:
Associated Building Contractors of WI (ABC) for non-union building trades.
5330 Wall Street, Madison, WI 53718
800.829.9926
www.abcwi.org/apprenticeship
- Complete the ABC application packet. The packet will include qualifying test information.
- After application approval, a list of potential employers will be provided.
- Obtain employment for apprenticeship training.
- The State of Wisconsin oversees the apprenticeship system and will contact WCTC to set a class schedule.
- The schedule will be sent to the student from WCTC (application to WCTC is not necessary by the student).

Required Courses	Credits
First Semester	
427-501 Plumbing Related I	2
427-523 Plumbing Repair	1.25
Total semester credits	3.25
Second Semester	
427-502 Plumbing Related II	2
427-524 Plumbing Applications	1
Total semester credits	3
Third Semester	
427-503 Plumbing Related III	2
614-540 Transit/Level for Plumbing	.5
Total semester credits	2.5
Fourth Semester	
427-504 Plumbing Related IV	2
442-507 Apprentice Welding for Plumbing	1
Total semester credits	3
Fifth Semester	
427-505 Plumbing Related V	2
427-521 Isometric Drawing for Plumbing	1
Total semester credits	3
Sixth Semester	
427-506 Plumbing Related VI	2
449-500 OSHA Safety for Apprentices	1
Total semester credits	3
Seventh Semester	
427-511 Blueprint Reading Intro	.5
Total semester credits	0.5
Eighth Semester	
427-512 Blueprint Reading for Plumbers	1
Total semester credits	1
<p><i>Curriculum is current as of catalog printing. The most current curriculum requirements for graduation will be provided upon admission to program, or review at www.wctc.edu.</i></p>	

Plumbing (ABC) Required Courses	
427-501 Plumbing Related I	2
In this Associated Builders and Contractors (ABC) plumber apprentice course, students will study plumbing code, learn basic plumbing principles, and examine drainpipe sizing and drain flow theory. Explore licensing requirements. Become familiar with the techniques and resources used in the interpretation of code.	
427-502 Plumbing Related II	2
Gain the skills and knowledge to identify, design, and install sanitary drain and vent piping in a plumbing system as per Wisconsin plumbing code during this course, designed for the Associated Builders and Contractors plumber apprentice. Develop the acquired skills through classroom discussion, drawing exercises, worksheets, evaluations, and work experience. Apply industry standards while adhering to plumbing code principles. Prerequisites: 427-501 Plumbing Related I	
427-503 Plumbing Related III	2
Develop understanding of the plumbing code through this continuation of the Associated Builders and Contractors (ABC) plumber apprentice program. Explore the design and installation requirements for traps and direct fixture connections, indirect and local waste, interceptors and catch basins, cleanouts, and storm and clear water drain systems. Build upon skills with classroom discussion, drawing exercises, worksheets, evaluations, work experience, and application of industry standards adhering to plumbing code principles.	
427-504 Plumbing Related IV	2
Focus on the design, sizing, and installation requirements for water supply systems through this continuation of the Associated Builders and Contractors (ABC) plumber apprentice program. Examine the theories of backflow and cross connection control. Apply industry standards adhering to plumbing code principles.	
427-505 Plumbing Related V	2
Master skills in preparation for the exam through this course, a continuation of the Associated Builders and Contractors (ABC) plumber apprentice program. Apply industry standards and adhere to plumbing codes.	
427-506 Plumbing Related VI	2
Master skills needed for the exam during this course, a continuation of the Associated Builders and Contractors (ABC) plumber apprentice program, through discussion, drawing exercises, worksheets, evaluations, and work experience. Apply industry standards and adhere to plumbing codes	
427-511 Blueprint Reading Intro	.5
Enhance abilities as an electrician or plumbing apprentice by developing related blueprint reading skills.	
427-512 Blueprint Reading for Plumbers	1
Develop the abilities needed as a plumbing apprentice to interpret trade blueprints and to plan the installation of required plumbing. Learn to interpret blueprint features, interpret specifications, read blueprints for the purpose of layout work, list material from print, and coordinate the installation of piping with other trades. Practice reading blueprints by working with an actual set of prints.	
427-521 Isometric Drawing for Plumbing	1
Learn drafting symbols and skills that will allow communication within the plumbing trade. Apply the Wisconsin state code to these drawings during this course, which was developed for the ABC indentured plumbing apprentice to fulfill unpaid evening related-instruction requirements.	
427-523 Plumbing Repair	1.3
Practice making repairs to various plumbing devices and equipment while fulfilling the ABC indentured plumbing apprentice unpaid evening related-instruction requirement.	
427-524 Plumbing Applications	1
Study topics of instruction developed by a state committee made up of employers, employees, and educators to allow the ABC indentured plumbing apprentice to fulfill unpaid evening related instruction requirements.	
442-507 Apprentice Wld Plumbing	1
Acquire basic welding skills, use several types of electrodes, and practice torch cutting steel, soldering water systems, and brazing.	
449-500 OSHA Safety for Apprentices	1
Examine OSHA safety standards as they apply to the construction field. Prepare to test for the OSHA 36-hour card during this course, which was developed to allow the ABC indentured apprentice to fulfill the unpaid evening-related instruction requirement.	
614-540 Transit/Level for Plumbing	.5
Develop an understanding of the builder's and transit level, the recording of leveling notes, the use of information on a plan to layout work on the job, and related math procedures. Fulfill the ABC indentured plumbing apprentice unpaid related instruction requirements during this evening course.	