

PLUMBING (427)

427-309. Plumbing Basic Theory 1. (2 Credits)

Students will learn fundamentals of plumbing systems. After learning theories of plumbing systems in the classroom, students will learn installation procedures in plumbing lab using hand and power tools. Students will learn safe operation of hand and power tools. See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=309>)

427-310. Plumbing Basic Theory 2. (2 Credits)

427-412. Plumbing Fundamentals. (4 Credits)
In this course, participants will learn to interpret construction drawings and specifications, assemble, install, test, troubleshoot, repair and maintain plumbing systems. See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=412>)

427-497. Prep Course Wisc Plumbing. (5.4 Credits)

Plumbing applicants must take this 54-hour review course, or pass 47-427-499 Test Out option prior to taking State licensing exam. See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=497>)

427-499. Test Out 54-Hr Plumbing Review. (2.4 Credits)

Plumbing applicants must pass this test-out option, or take 427-497, 54-hour review course, prior to taking State Plumbing licensing exam. This comprehensive exam covers Wisconsin Uniform Plumbing Code Chapters 381 – 387, 145, 302, 303, and 305. This exam will take approximately 24 hours to complete. After registering for this course and paying tuition, see WCTC Apprenticeship Administrative Assistant to receive your test packet. Register for this course in person or by phone. See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=499>)

427-501. Plumbing Related I. (2 Credits)

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. See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=501>)

427-502. Plumbing Related II. (2 Credits)

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 with a minimum grade of D-)
See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=502>)

427-503. Plumbing Related III. (2 Credits)

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. See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=503>)

427-504. Plumbing Related IV. (2 Credits)

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. See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=504>)

427-505. Plumbing Related V. (2 Credits)

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. See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=505>)

427-506. Plumbing Related VI. (2 Credits)

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. See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=506>)

427-507. Plumbing Related VII. (2 Credits)

The apprentice will select and complete an applied plumbing project in collaboration with the instructor. Projects will apply the skills required to identify, design, install and service various plumbing applications that are listed in plumbing codes. Apprentices will use the code language and tables in various plumbing systems in accordance with the Wisconsin Plumbing Code. This course builds upon the theory, work experience, and the application of plumbing code principles addressed in previous coursework to support completing an applied hands-on project.

Prerequisites: 427-506 with a minimum grade of C
See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=507>)

427-508. Plumbing Related VIII. (2 Credits)

This course provides plumbing apprentices with an introduction to green applications, and prepares apprentices to take certification exams. Prerequisites: 427-507 with a minimum grade of C
See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=508>)

427-512. Blueprint Reading for Plumbers. (1 Credit)

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.

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=512>)

427-521. Isometric Drawing for Plumbing. (1 Credit)

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.

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=521>)

427-523. Plumbing Repair. (1.25 Credits)

Practice making repairs to various plumbing devices and equipment while fulfilling the ABC indentured plumbing apprentice unpaid evening related-instruction requirement.

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=523>)

427-524. Plumbing Applications. (1 Credit)

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.

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=524>)

427-751. Sanitary Drains 1. (2 Credits)

Plumbing related instruction of sanitary drain systems. Course includes a review of codes and trade practices related to sanitary drains, drainage systems, components and applications.

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=751>)

427-752. Vents and Venting Systems. (2 Credits)

This course is designed to provide the apprentice with the skills to identify and design sanitary vent piping in a plumbing system in accordance with the Wisconsin Plumbing Code. The course focuses on theory, work experience, and the application of plumbing code principles through discussions, drawing exercises, work sheets, and evaluations.

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=752>)

427-753. Water Distribution 1. (2 Credits)

This course provides the apprentice with the skills to identify, design, install and service various applications for water supply systems that are listed in plumbing codes. Apprentices will use the code language and tables in various plumbing systems in accordance with the Wisconsin Plumbing Code. Course topics will include commercial to single family and private well pump systems. The course focuses on theory, work experience, and the application of plumbing code principles through discussions, drawing exercises, work sheets, and evaluations.

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=753>)

427-754. Water Distribution 2. (2 Credits)

This course provides the apprentice with the skills to identify, design, install and service cross connection controls, water treatment equipment and multi-purpose piping systems in various plumbing systems in accordance with the Wisconsin Plumbing Code. The course focuses on theory, work experience, and the application of plumbing code principles through discussions, drawing exercises, work sheets, and evaluations.

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=754>)

427-755. Sanitary Drains 2. (2 Credits)

This course provides the apprentice with the skills to identify, design, install and service various applications for storm water, clear water, and drainage systems. Apprentices will use the code language and tables in various plumbing systems in accordance with the Wisconsin Plumbing Code. The course focuses on theory, work experience, and the application of plumbing code principles through discussions, drawing exercises, work sheets, and evaluations.

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=755>)

427-756. Priv Site Wastewater (POWTS). (2 Credits)

This course provides the apprentice with the skills to identify, design, install and service various applications for private onsite wastewater treatment systems that are listed in plumbing codes or individual component manuals. Apprentices will use the code language and tables in various plumbing systems in accordance with the Wisconsin Plumbing Code. Other topics will include pretreatment, soil evaluation, site planning and new technologies. The course focuses on theory, work experience, and the application of plumbing code principles through discussions, drawing exercises, work sheets, and evaluations.

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=756>)

427-757. Green Plumbing Applications. (2 Credits)

This course provides plumbing apprentices with an introduction to green applications. Apprentices will be instructed on how to identify, install and maintain a variety of green products and systems. They will apply the Wisconsin Plumbing Code to various installations. This introduction will give an apprentice the basic knowledge to study for a variety of green certifications.

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=757>)

427-758. Plumbing Advanced Topics/TSA. (2 Credits)

This course provides the apprentice with the opportunity to select and complete an applied plumbing project in collaboration with the instructor. Projects will apply the skills required to identify, design, install and service various plumbing applications that are listed in plumbing codes. Apprentices will use the code language and tables in various plumbing systems in accordance with the Wisconsin Plumbing Code. The course builds upon the theory, work experience, and the application of plumbing code principles addressed in previous coursework to support completing an applied hands-on project.

Prerequisites: 427-757 with a minimum grade of C or 427-507 with a minimum grade of C

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=427&num=758>)