

PLUMBING

Plumbers install, maintain, and repair many different types of pipe systems. For example, some systems move water to a municipal water treatment plant and then to residential, commercial, and public buildings. Other systems dispose of waste products. Piping provides gas to stoves and furnaces, or supply air conditioning. Pipe systems in power plants carry the steam that powers huge turbines. Pipes also are used in manufacturing plants, wineries and to move material through production processes. CITC's five-year training program prepares plumbers to do new construction as well as maintenance work safely and following code. Major topics include installing and servicing Potable Water Systems; Drain, Waste & Vent Systems; Basic Electricity; Medical Gas Piping; and Piping for Fuel Gas and Fuel Oil Systems.

HYBRID LEARNING PROGRAM

CITC has taken company-wide measures to help prevent the spread of the COVID-19 virus to ensure the health and safety of students, faculty, staff and the community. Due to the COVID-19 Pandemic, CITC classes will be delivered in a hybrid format with theory classes being offered virtually and small in-person labs scheduled at our facilities throughout the year. All in-person lab sessions will be scheduled to ensure students and faculty can maintain social distancing protocols during lab activities and performance testing.

Students will be required to have access to a computer or tablet device with a working camera and microphone. Additionally, all students will need to have access to a reliable internet source when classes begin in the fall. For additional information on the technical requirements for this program please contact the CITC office at (425) 454-2482.

Note: It is crucial that students have required books prior to the first class meeting. A student who does not have books by the end of the second week may be dismissed from class and charged with an absence.



APPRENTICESHIP MONTHLY WORK LOGS

Apprenticeship monthly work logs can be submitted to the apprenticeship department via email: worklogs@citcwa.org; fax: (425) 289-0085; mail to the CITC main office: 1930 116th Ave NE Bellevue, WA 98004; or placed in the Drop Box outside of CITC Facilities.

NCCERCONNECT 2.0 WITH PEARSON eTEXT ACCESS CARD

NCCERConnect 2.0 is an online training program that enhances student learning with a range of visual, auditory, and interactive elements. Your Pearson eText Access Card will give you access to an eBook version of the textbook included in the package.



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PLUMBING LEVEL 1

Minimum: 216 hours per year

PLUMBING 101: FALL QUARTER

Students will thoroughly review construction site safety and shop safety and are introduced to trade mathematics; safe use of basic hand and power tools; blueprint reading; rigging and are provided with an overview of plumbing careers, plumbing safety and plumbing math. Schedule for lab dates will be handed out the first night of class each quarter. Spokane students complete 8 hours of outside projects per month.

PLUMBING 102: WINTER QUARTER

Students are introduced to plumbing drawings; and learn about plastic pipe and fittings, copper pipe and fittings, cast iron pipe and fittings and related articles of the Uniform Plumbing Code (UPC) and Washington State Amendments. Includes OSHA 10 and First Aid/CPR Training. Spokane students complete 8 hours of outside projects per month.

PLUMBING 103: SPRING QUARTER

Students will learn about carbon steel pipe and fittings, plumbing fixtures, are introduced to drain, waste and venting (DWV) systems, and are introduced to water distribution systems and related articles of the Uniform Plumbing Code (UPC) and Washington State Amendments. Spokane students complete 8 hours of outside projects per month.

REQUIRED BOOKS - PLUMBING LEVEL 1

It is the student's responsibility to have the following book(s) on the first night of class:

NCCER Core Curriculum Package - includes the following: <ul style="list-style-type: none"> • Core Curriculum Trainee Guide, 5th Edition • Core Curriculum Trainee Guide, 5th Edition, NCCERConnect 2.0 with Pearson eText Access Card 	ISBN: 9780134391922
NCCER Plumbing Level 1 Package: <ul style="list-style-type: none"> • Plumbing Level 1 Trainee Guide, 4th Edition • Plumbing Level 1 Trainee Guide, 4th Edition, NCCERConnect 2.0 with Pearson eText Access Card 	ISBN: 9780134274577
2018 Uniform Plumbing Code (UPC) - Illustrated Training Manual with Tabs <i>or</i> 2018 Uniform Plumbing Code (UPC) - Softcover with Tabs	ISBN: 9781944366179 ISBN: 9781944366070
Washington State Amendments	Free download available through L&I



All first year classes include
OSHA 10 for Construction



PLUMBING LEVEL 2

Minimum: 216 hours per year

PLUMBING 201: FALL QUARTER

Students will learn advanced plumbing math; reading commercial drawings; structural penetrations, insulation and fire stopping; installing and testing of DWV piping and related articles of the Uniform Plumbing Code (UPC) and Washington State Amendments. Schedule for lab dates will be handed out the first night of class each quarter. Spokane students complete 8 hours of outside projects per month.

PLUMBING 202: WINTER QUARTER

Students will continue learning about installing and testing DWV piping; installing roof, floor and area drains; installing and testing water supply piping; types of valves; and related articles of the Uniform Plumbing Code (UPC) and Washington State Amendments and will review green building practices. Spokane students complete 8 hours of outside projects per month.

PLUMBING 203: SPRING QUARTER

Students will learn about installing fixtures and valves; installing water heaters; basic electricity for plumbing; fuel gas and fuel oil systems; and related articles of the Uniform Plumbing Code (UPC) and Washington State Amendments. Spokane students complete 8 hours of outside projects per month.

REQUIRED BOOKS - PLUMBING LEVEL 2

It is the student's responsibility to have the following book(s) on the first night of class:

NCCER Plumbing Level 2 Package: • Plumbing Level 2 Trainee Guide, 4th Edition • Plumbing Level 2 Trainee Guide, 4th Edition, NCCERConnect 2.0 with Pearson eText Access Card	ISBN: 9780134274584
Your Role in the Green Environment, 4th Edition, Paperback <i>or</i> Your Role in the Green Environment, 4th Edition, Adobe Reader	ISBN: 9780136701200 ISBN: 9780136639282
2018 Uniform Plumbing Code (UPC) - Illustrated Training Manual with Tabs <i>or</i> 2018 Uniform Plumbing Code (UPC) - Softcover with Tabs	ISBN: 9781944366179 ISBN: 9781944366070
Washington State Amendments	Free download available through L&I

PLUMBING LEVEL 3

Minimum: 216 hours per year

PLUMBING 301: FALL QUARTER

Students will learn applied plumbing math; sizing and protecting water supply piping; potable water treatment and related articles of the Uniform Plumbing Code (UPC) and Washington State Amendments. Schedule for lab dates will be handed out the first night of class each quarter. Spokane students complete 8 hours of outside projects per month.

PLUMBING 302: WINTER QUARTER

Students will learn types of venting; sizing DWV and storm systems; sewage pumps and sump pumps; and related articles of the Uniform Plumbing Code (UPC) and Washington State Amendments. Spokane students complete 8 hours of outside projects per month.

PLUMBING 303: SPRING QUARTER

Students will learn about; corrosive-resistant waste piping; compressed air systems; service plumbing; and related articles of the Uniform Plumbing Code (UPC) and Washington State Amendments. Spokane students complete 8 hours of outside projects per month.

REQUIRED BOOKS - PLUMBING LEVEL 3

It is the student's responsibility to have the following book(s) on the first night of class:

NCCER Plumbing Level 3 Package: • Plumbing Level 3 Trainee Guide, 4th Edition • Plumbing Level 3 Trainee Guide, 4th Edition, NCCERConnect 2.0 with Pearson eText Access Card	ISBN: 9780134279145
2018 Uniform Plumbing Code (UPC) - Illustrated Training Manual with Tabs <i>or</i> 2018 Uniform Plumbing Code (UPC) - Softcover with Tabs	ISBN: 9781944366179 ISBN: 9781944366070
Washington State Amendments	Free download available through L&I

PLUMBING LEVEL 4

Minimum: 216 hours per year

PLUMBING 401: FALL QUARTER

Students will learn about business principles; skills for crew leaders; water pressure booster and recirculation systems; and related 2015 Plumbing Code and Washington State Amendments. Schedule for lab dates will be handed out the first night of class each quarter. Spokane students complete 8 hours of outside projects per month.

PLUMBING 402: WINTER QUARTER

Students will learn about indirect and special waste installation procedures; hydronic and solar heating systems; various local, state and international codes; servicing piping systems, fixtures and appliances; and related 2015 Plumbing Code and Washington State Amendments. Spokane students complete 8 hours of outside projects per month.

PLUMBING 403: SPRING QUARTER

Students will learn about private water supply well systems; private waste disposal systems; swimming pools and hot tubs; plumbing for mobile homes and mobile home parks; and related 2015 Plumbing Code and Washington State Amendments. Spokane students complete 8 hours of outside projects per month.

REQUIRED BOOKS - PLUMBING LEVEL 4

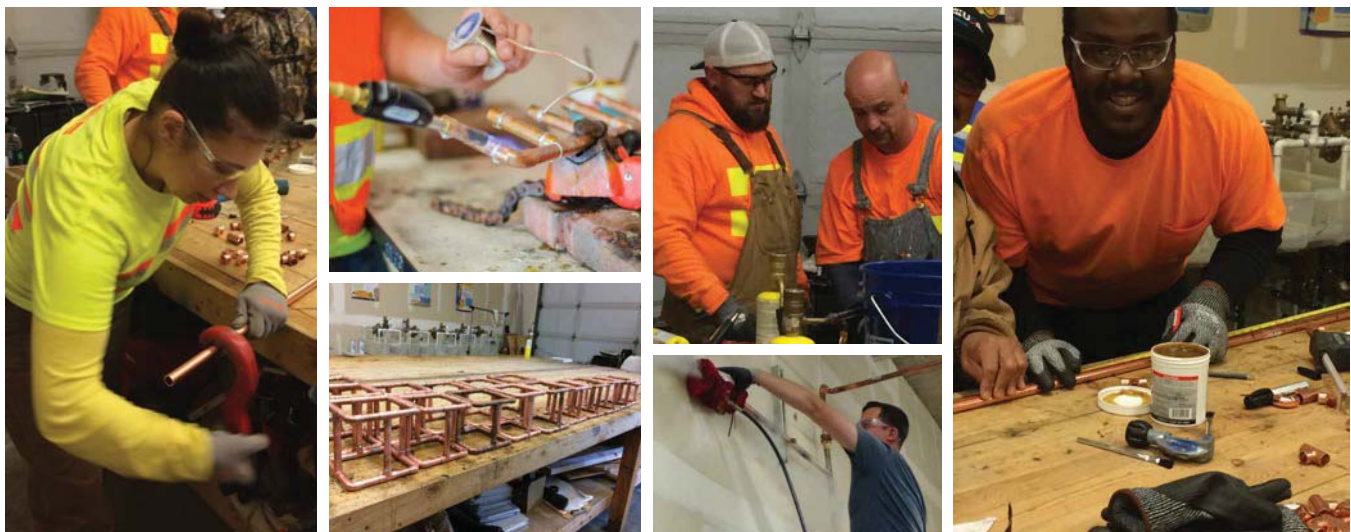
It is the student's responsibility to have the following book(s) on the first night of class:

NCCER Plumbing Level 4 Package: <ul style="list-style-type: none"> • Plumbing Level 4 Trainee Guide, 4th Edition • Plumbing Level 4 Trainee Guide, 4th Edition, NCCERConnect 2.0 with Pearson eText Access Card 	ISBN: 9780134279138
2018 Uniform Plumbing Code (UPC) - Illustrated Training Manual with Tabs <i>or</i> 2018 Uniform Plumbing Code (UPC) - Softcover with Tabs	ISBN: 9781944366179 ISBN: 9781944366070
Washington State Amendments	Free download available through L&I

PLUMBING LEVEL 5

5th Year State-Registered Plumbing Apprentices

For 5th year state-registered plumbing apprentices taking classes through CITC, contact your apprenticeship coordinator at (877) 428-0442 for a list of classes.



Plumbing Instructors

As a part of our dedication and commitment to training, we take pride in delivering top quality instructors. CITC's instructors are highly skilled journey-level workers who bring their knowledge and years of trade experience into the classroom. All CITC instructors have been certified by the National Center for Construction Education and Research.

Nick Aloisio started in the trade in 2000. CITC faculty member since 2007.

Sean Daly started in the trade in 1993. Founder and President of The Art of Plumbing since 2003. CITC faculty member since 2019.

Terry Deems started in the trade in 1976 and became a CITC faculty member in 2007. CITC Instructor of the Year in 2015-2016.

Mathew Foster started in the trade in 2005. Faculty member since 2019.

Andrew Gaylor started in the trade in 2012 and graduated from CITC in 2017. Faculty member since 2017.

Yevgeniy Likhonin started in the trade in 2005. CITC graduate in 2009 and became a CITC faculty member in 2017. Received CITC Instructor of the Year award in 2019.

Kurt Sarkinen started in the trade 2000. CITC graduate in 2007 and became a CITC faculty member in 2016.

Robbie Stewart started in the trade 1995. Completed plumbing apprenticeship program in 1999, and became a CITC faculty member in 2013.

Steve Sullivan started in the trade in 1991 and became a CITC faculty member in 2004. CITC CEU Instructor of the Year in 2015-2016.

Steven Triggs started in the trade in 1997 and became a CITC faculty member in 2015.

Plumbing Schedule & Tuition

Eastern Washington Region

PLUMBING LEVEL 1								
Spokane	101	Fall	15 weeks	90 hours	Mon/Wed	6p-9p	September 9 - December 16 + 2 Saturdays	Tuition: \$1,160
Spokane	102	Wtr	9 weeks	63 hours	Mon/Wed	6p-9p	January 4 - March 3 + 2 Saturdays	Tuition: \$1,160
Spokane	103	Spr	8 weeks	63 hours	Mon/Wed	6p-9p	April 5 - May 26 + 2 Saturdays	Tuition: \$1,160
PLUMBING LEVEL 2								
Spokane	201	Fall	14 weeks	90 hours	Tue/Thu	6p-9p	September 8 - December 10 + 2 Saturdays	Tuition: \$1,160
Spokane	202	Wtr	9 weeks	63 hours	Tue/Thu	6p-9p	January 5 - March 2 + 2 Saturdays	Tuition: \$1,160
Spokane	203	Spr	9 weeks	63 hours	Tue/Thu	6p-9p	April 1 - May 27 + 2 Saturdays	Tuition: \$1,160
PLUMBING LEVEL 3								
Spokane	301	Fall	15 weeks	90 hours	Mon/Wed	6p-9p	September 9 - December 16 + 2 Saturdays	Tuition: \$1,160
Spokane	302	Wtr	9 weeks	63 hours	Mon/Wed	6p-9p	January 4 - March 3 + 2 Saturdays	Tuition: \$1,160
Spokane	303	Spr	8 weeks	63 hours	Mon/Wed	6p-9p	April 5 - May 26 + 2 Saturdays	Tuition: \$1,160
PLUMBING LEVEL 4								
Spokane	401	Fall	14 weeks	90 hours	Tue/Thu	6p-9p	September 8 - December 10 + 2 Saturdays	Tuition: \$1,160
Spokane	402	Wtr	10 weeks	63 hours	Tue/Thu	6p-9p	January 5 - March 9 + 1 Saturday	Tuition: \$1,160
Spokane	403	Spr	9 weeks	63 hours	Tue/Thu	6p-9p	April 1 - May 27 + 2 Saturdays	Tuition: \$1,160

Plumbing Schedule & Tuition

Western Washington Region

PLUMBING LEVEL 1								
Bellevue	101	Fall	15 weeks	90 hours	Mon/Wed	6p-9p	September 9 - December 16 + 2 Saturdays	Tuition: \$1,545
Bellevue	102	Wtr	9 weeks	63 hours	Mon/Wed	6p-9p	January 4 - March 3 + 2 Saturdays	Tuition: \$1,545
Bellevue	103	Spr	8 weeks	63 hours	Mon/Wed	6p-9p	April 5 - May 26 + 2 Saturdays	Tuition: \$1,545
Marysville	101	Fall	15 weeks	90 hours	Mon/Wed	6p-9p	September 9 - December 16 + 2 Saturdays	Tuition: \$1,545
Marysville	102	Wtr	9 weeks	63 hours	Mon/Wed	6p-9p	January 4 - March 3 + 2 Saturdays	Tuition: \$1,545
Marysville	103	Spr	8 weeks	63 hours	Mon/Wed	6p-9p	April 5 - May 26 + 2 Saturdays	Tuition: \$1,545
Tacoma	101	Fall	15 weeks	90 hours	Mon/Wed	6p-9p	September 9 - December 16 + 2 Saturdays	Tuition: \$1,545
Tacoma	102	Wtr	9 weeks	63 hours	Mon/Wed	6p-9p	January 4 - March 3 + 2 Saturdays	Tuition: \$1,545
Tacoma	103	Spr	8 weeks	63 hours	Mon/Wed	6p-9p	April 5 - May 26 + 2 Saturdays	Tuition: \$1,545
Vancouver	101	Fall	12 weeks	48 hours	Thu	5p-9p	September 3 - November 19	Tuition: \$1,545
Vancouver	102	Wtr	14 weeks	48 hours	Thu	5p-9p	December 10 - March 11	Tuition: \$1,545
Vancouver	103	Spr	12 weeks	48 hours	Thu	5p-9p	March 25 - June 10	Tuition: \$1,545
PLUMBING LEVEL 2								
Bellevue	201	Fall	14 weeks	90 hours	Tue/Thu	6p-9p	September 8 - December 10 + 2 Saturdays	Tuition: \$1,545
Bellevue	202	Wtr	9 weeks	63 hours	Tue/Thu	6p-9p	January 5 - March 2 + 2 Saturdays	Tuition: \$1,545
Bellevue	203	Spr	9 weeks	63 hours	Tue/Thu	6p-9p	April 1 - May 27 + 2 Saturdays	Tuition: \$1,545
Marysville	201	Fall	14 weeks	90 hours	Tue/Thu	6p-9p	September 8 - December 10 + 2 Saturdays	Tuition: \$1,545
Marysville	202	Wtr	9 weeks	63 hours	Tue/Thu	6p-9p	January 5 - March 2 + 2 Saturdays	Tuition: \$1,545
Marysville	203	Spr	9 weeks	63 hours	Tue/Thu	6p-9p	April 1 - May 27 + 2 Saturdays	Tuition: \$1,545
Tacoma	201	Fall	14 weeks	90 hours	Tue/Thu	6p-9p	September 8 - December 10 + 2 Saturdays	Tuition: \$1,545
Tacoma	202	Wtr	9 weeks	63 hours	Tue/Thu	6p-9p	January 5 - March 2 + 2 Saturdays	Tuition: \$1,545
Tacoma	203	Spr	9 weeks	63 hours	Tue/Thu	6p-9p	April 1 - May 27 + 2 Saturdays	Tuition: \$1,545
Vancouver	201	Fall	12 weeks	48 hours	Thu	5p-9p	September 3 - November 19	Tuition: \$1,545
Vancouver	202	Wtr	14 weeks	48 hours	Thu	5p-9p	December 10 - March 11	Tuition: \$1,545
Vancouver	203	Spr	12 weeks	48 hours	Thu	5p-9p	March 25 - June 10	Tuition: \$1,545
PLUMBING LEVEL 3								
Bellevue	301	Fall	16 weeks	90 hours	Mon/Wed	6p-9p	September 2 - December 16 + 2 Saturdays	Tuition: \$1,545
Bellevue	302	Wtr	9 weeks	63 hours	Mon/Wed	6p-9p	January 4 - March 3 + 2 Saturdays	Tuition: \$1,545
Bellevue	303	Spr	8 weeks	63 hours	Mon/Wed	6p-9p	April 5 - May 26 + 2 Saturdays	Tuition: \$1,545
Tacoma	301	Fall	16 weeks	90 hours	Mon/Wed	6p-9p	September 2 - December 16 + 2 Saturdays	Tuition: \$1,545
Tacoma	302	Wtr	9 weeks	63 hours	Mon/Wed	6p-9p	January 4 - March 3 + 2 Saturdays	Tuition: \$1,545
Tacoma	303	Spr	8 weeks	63 hours	Mon/Wed	6p-9p	April 5 - May 26 + 2 Saturdays	Tuition: \$1,545
Vancouver	301	Fall	12 weeks	48 hours	Thu	5p-9p	September 3 - November 19	Tuition: \$1,545
Vancouver	302	Wtr	14 weeks	48 hours	Thu	5p-9p	December 10 - March 11	Tuition: \$1,545
Vancouver	303	Spr	12 weeks	48 hours	Thu	5p-9p	March 25 - June 10	Tuition: \$1,545
PLUMBING LEVEL 4								
Vancouver	401	Fall	13 weeks	48 hours	Thu	5p-9p	September 8 - November 19	Tuition: \$1,545
Vancouver	402	Wtr	14 weeks	48 hours	Thu	5p-9p	December 10 - March 11	Tuition: \$1,545
Vancouver	403	Spr	12 weeks	48 hours	Thu	5p-9p	March 25 - June 10	Tuition: \$1,545