

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 four-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.

Note: CITC is transitioning from requiring paper NCCER Carpentry textbooks and NCCERConnect. Carpentry students are now required to purchase NCCERConnect only. NCCERConnect, which includes access to an e-text, will become the primary text materials for class and will be utilized for class and homework assignments. Students will be required to purchase an access code to NCCERConnect on the 1st day of class.

It is a requirement of CITC students to own or have access to a laptop or tablet computer with video, audio, camera, microphone, and wireless network access. Personal student laptop or tablet computer devices will be required in class each day. 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 please contact the CITC office at (425) 454-2482.




APPRENTICESHIP MONTHLY WORK LOGS


Apprenticeship monthly work logs can be submitted to the apprenticeship department via email: worklogs@citcwa.org; fax: **(425) 289-0085** (this fax number does not receive texts); mail to the CITC main office: **1930 116th Ave NE Bellevue, WA 98004**.

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.

<https://registration.mypearson.com>


NCCER BOOKSTORE



Enter code **NCCER20** to receive 20% off your NCCER books

Includes free shipping on your first order

www.nccer.org/bookstore

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. Includes OSHA 10. Lab date schedule will be provided at the beginning of the quarter. Scheduled dates may be adjusted at instructor's discretion. (Note: 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 & fittings; copper pipe & fittings; cast iron pipe & fittings and related 2018 Plumbing Code and Washington State Amendments. Includes First Aid/CPR Training. Lab date schedule will be provided at the beginning of the quarter. Scheduled dates may be adjusted at instructor's discretion. (Note: Spokane students complete 8 hours of outside projects per month).

PLUMBING 103: SPRING QUARTER

Students will learn about carbon steel pipe & fittings; plumbing fixtures; are introduced to drain, waste and venting (DWV) systems; and are introduced to water distribution systems and related 2018 Plumbing Code and Washington State Amendments. Lab date schedule will be provided at the beginning of the quarter. Scheduled dates may be adjusted at instructor's discretion. (Note: Spokane students complete 8 hours of outside projects per month).

BOOKS - PLUMBING LEVEL 1

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

| REQUIRED TEXT | Soft Cover ISBN | Hard Cover ISBN |
|--|---|-----------------|
| NCCER Core Curriculum Trainee Guide, 6th Edition, NCCERConnect 2.0 with eText | Purchase NCCERConnect through https://registration.mypearson.com/ | |
| NCCER Plumbing Level 1 Trainee Guide, 4th Edition, NCCERConnect 2.0 with eText | Purchase NCCERConnect through https://registration.mypearson.com/ | |
| Washington State Amendments | Available through L&I website | |
| 2018 Illustrated Uniform Plumbing Code Book (UPC) | 978-1944366070 | |
| OPTIONAL TEXT | | |
| NCCER Core Curriculum Trainee Guide, 6th Edition | 9780137483341 | 9780137483358 |
| NCCER Plumbing Level 1 Trainee Guide, 4th Edition | 9780136637912 | |

*Purchase NCCERConnect through <https://registration.mypearson.com/>

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 2018 Plumbing Code and Washington State Amendments. Lab date schedule will be provided at the beginning of the quarter. Scheduled dates may be adjusted at instructor's discretion. (Note: 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 2018 Plumbing Code and Washington State Amendments and will review green building practices. (Note: Spokane students complete 8 hours of outside projects per month).

PLUMBING 203: SPRING QUARTER

Students will learn about installing fixtures & valves; installing water heaters; basic electricity for plumbing; fuel gas and fuel oil systems; and related 2018 Plumbing Code and Washington State Amendments. (Note: Spokane students complete 8 hours of outside projects per month).

BOOKS - PLUMBING LEVEL 2

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

| REQUIRED TEXT | Soft Cover ISBN | Hard Cover ISBN |
|--|---|-----------------|
| NCCER Plumbing Level 2 Trainee Guide, 4th Edition, NCCERConnect 2.0 with eText | Purchase NCCERConnect through https://registration.myperson.com/ | |
| 2018 Illustrated Uniform Plumbing Code Book (UPC) | 978-1944366070 | |
| Washington State Amendments | Available through L&I website | |
| OPTIONAL TEXT | | |
| NCCER Plumbing Level 2 Trainee Guide, 4th Edition | 9780133148503 | |

*Purchase NCCERConnect through <https://registration.myperson.com/>

PLUMBING LEVEL 3

Minimum: 216 hours per year

PLUMBING 301: FALL QUARTER

Students will learn applied plumbing math; sizing & protecting water supply piping; potable water treatment and related 2018 Plumbing Code and Washington State Amendments. Lab date schedule will be provided at the beginning of the quarter. Scheduled dates may be adjusted at instructor's discretion. (Note: 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 2018 Plumbing Code and Washington State Amendments. Lab date schedule will be provided at the beginning of the quarter. Scheduled dates may be adjusted at instructor's discretion. (Note: 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 2018 Plumbing Code and Washington State Amendments. Lab date schedule will be provided at the beginning of the quarter. Scheduled dates may be adjusted at instructor's discretion. (Note: Spokane students complete 8 hours of outside projects per month).

BOOKS - PLUMBING LEVEL 3

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

| REQUIRED TEXT | Soft Cover ISBN | Hard Cover ISBN |
|--|---|-----------------|
| NCCER Plumbing Level 3 Trainee Guide, 4th Edition, NCCERConnect 2.0 with eText | Purchase NCCERConnect through https://registration.myperson.com/ | |
| 2018 Illustrated Uniform Plumbing Code Book (UPC) | 978-1944366070 | |
| Washington State Amendments | Available through L&I website | |
| OPTIONAL TEXT | | |
| NCCER Plumbing Level 3 Trainee Guide, 4th Edition | 9780133404241 | |

*Purchase NCCERConnect through <https://registration.myperson.com/>



All first year classes include
OSHA 10 for Construction



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 2018 Plumbing Code and Washington State Amendments. Lab date schedule will be provided at the beginning of the quarter. Scheduled dates may be adjusted at instructor's discretion. (Note: 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 2018 Plumbing Code and Washington State Amendments. Lab date schedule will be provided at the beginning of the quarter. Scheduled dates may be adjusted at instructor's discretion. (Note: 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 & hot tubs; plumbing for mobile homes & mobile home parks and related 2018 Plumbing Code and Washington State Amendments. Lab date schedule will be provided at the beginning of the quarter. Scheduled dates may be adjusted at instructor's discretion. (Note: Spokane students complete 8 hours of outside projects per month).

BOOKS - PLUMBING LEVEL 4

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

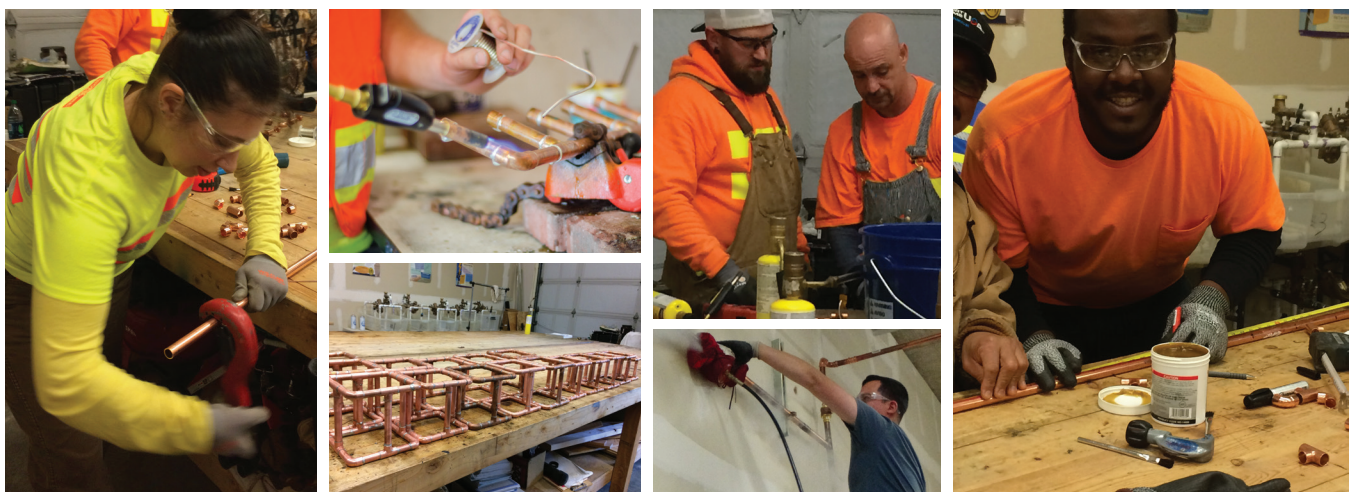
| REQUIRED TEXT | Soft Cover ISBN | Hard Cover ISBN |
|--|---|-----------------|
| NCCER Plumbing Level 4 Trainee Guide, 4th Edition, NCCERConnect 2.0 with eText | Purchase NCCERConnect through https://registration.myperson.com/ | |
| 2018 Illustrated Uniform Plumbing Code Book (UPC) | 978-1944366070 | |
| Washington State Amendments | Available through L&I website | |
| OPTIONAL TEXT | | |
| NCCER Plumbing Level 4 Trainee Guide, 4th Edition | 9780133824223 | |

*Purchase NCCERConnect through <https://registration.myperson.com/>

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.

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

Marc Koppang started in the trade in 1992. Joined the CITC faculty in 2020.

Yevgeniy Likhonin started in the trade in 2005. CITC graduate in 2009 and became a CITC faculty member in 2017. CITC Instructor of the Year in 2018-2019.

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 in 1995. Completed his plumbing apprenticeship in 1999, and became a CITC faculty member in 2013. CITC Instructor of the Year in 2021-2022.

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 | 12 weeks | 86 hours | Fri/Sat | 8a-5p | September 16 – December 10 + Assignments | Tuition: \$1,325 |
| Spokane | 102 | Wtr | 8 weeks | 65 hours | Fri/Sat | 8a-5p | January 13 – March 11 + Assignments | Tuition: \$1,325 |
| Spokane | 103 | Spr | 9 weeks | 65 hours | Fri/Sat | 8a-5p | April 14 – June 10 + Assignments | Tuition: \$1,325 |
| PLUMBING LEVEL 2 | | | | | | | | |
| Spokane | 201 | Fall | 11 weeks | 86 hours | Fri/Sat | 8a-5p | September 23 – December 17 + Assignments | Tuition: \$1,325 |
| Spokane | 202 | Wtr | 8 weeks | 65 hours | Fri/Sat | 8a-5p | January 20 – March 18 + Assignments | Tuition: \$1,325 |
| Spokane | 203 | Spr | 9 weeks | 65 hours | Fri/Sat | 8a-5p | April 21 – June 17 + Assignments | Tuition: \$1,325 |
| PLUMBING LEVEL 3 | | | | | | | | |
| Spokane | 301 | Fall | 13 weeks | 86 hours | Fri/Sat | 8a-5p | September 16 – December 17 + Assignments | Tuition: \$1,325 |
| Spokane | 302 | Wtr | 8 weeks | 65 hours | Fri/Sat | 8a-5p | January 20 – March 18 + Assignments | Tuition: \$1,325 |
| Spokane | 303 | Spr | 9 weeks | 65 hours | Fri/Sat | 8a-5p | April 21 – June 17 + Assignments | Tuition: \$1,325 |
| PLUMBING LEVEL 4 | | | | | | | | |
| Spokane | 401 | Fall | 13 weeks | 86 hours | Fri/Sat | 8a-5p | September 23 – December 3 + Assignments | Tuition: \$1,325 |
| Spokane | 402 | Wtr | 9 weeks | 65 hours | Fri/Sat | 8a-5p | January 6 – March 4 + Assignments | Tuition: \$1,325 |
| Spokane | 403 | Spr | 7 weeks | 65 hours | Fri/Sat | 8a-5p | March 31 – June 3 + Assignments | Tuition: \$1,325 |



All first year classes include
OSHA 10 for Construction



Plumbing Schedule & Tuition *continued*

Western Washington Region

| PLUMBING LEVEL 1 | | | | | | | | |
|------------------|-----|------|----------|----------|---------|-------|--|------------------|
| Bellevue | 101 | Fall | 15 weeks | 86 hours | Fri/Sat | 8a-5p | September 9 – December 3 + Assignments | Tuition: \$1,750 |
| Bellevue | 102 | Wtr | 9 weeks | 65 hours | Fri/Sat | 8a-5p | January 6 – March 4 + Assignments | Tuition: \$1,750 |
| Bellevue | 103 | Spr | 9 weeks | 65 hours | Fri/Sat | 8a-5p | April 7 – June 3 + Assignments | Tuition: \$1,750 |
| Vancouver 1A | 101 | Fall | 15 weeks | 80 hours | Tue | 5p-9p | September 13 – December 13 + 3 Saturdays | Tuition: \$1,750 |
| Vancouver 1A | 102 | Wtr | 9 weeks | 68 hours | Tue | 5p-9p | January 10 – March 15 + 3 Saturdays | Tuition: \$1,750 |
| Vancouver 1A | 103 | Spr | 9 weeks | 68 hours | Tue | 5p-9p | April 11 – June 6 + 3 Saturdays | Tuition: \$1,750 |
| Vancouver 1B | 101 | Fall | 15 weeks | 80 hours | Thu | 5p-9p | September 8 – December 22 + 3 Saturdays | Tuition: \$1,750 |
| Vancouver 1B | 102 | Wtr | 9 weeks | 68 hours | Thu | 5p-9p | January 5 – March 16 + 3 Saturdays | Tuition: \$1,750 |
| Vancouver 1B | 103 | Spr | 9 weeks | 68 hours | Thu | 5p-9p | April 13 – June 8 + 3 Saturdays | Tuition: \$1,750 |
| PLUMBING LEVEL 2 | | | | | | | | |
| Vancouver 2A | 201 | Fall | 15 weeks | 80 hours | Tue | 5p-9p | September 13 – December 13 + 3 Saturdays | Tuition: \$1,750 |
| Vancouver 2A | 202 | Wtr | 9 weeks | 68 hours | Tue | 5p-9p | January 10 – March 15 + 3 Saturdays | Tuition: \$1,750 |
| Vancouver 2A | 203 | Spr | 9 weeks | 68 hours | Tue | 5p-9p | April 11 – June 6 + 3 Saturdays | Tuition: \$1,750 |
| Vancouver 2B | 201 | Fall | 15 weeks | 80 hours | Thu | 5p-9p | September 8 – December 22 + 3 Saturdays | Tuition: \$1,750 |
| Vancouver 2B | 202 | Wtr | 9 weeks | 68 hours | Thu | 5p-9p | January 5 – March 16 + 3 Saturdays | Tuition: \$1,750 |
| Vancouver 2B | 203 | Spr | 9 weeks | 68 hours | Thu | 5p-9p | April 13 – June 8 + 3 Saturdays | Tuition: \$1,750 |
| PLUMBING LEVEL 3 | | | | | | | | |
| Vancouver 3A | 301 | Fall | 15 weeks | 80 hours | Tue | 5p-9p | September 13 – December 13 + 3 Saturdays | Tuition: \$1,750 |
| Vancouver 3A | 302 | Wtr | 9 weeks | 68 hours | Tue | 5p-9p | January 10 – March 15 + 3 Saturdays | Tuition: \$1,750 |
| Vancouver 3A | 303 | Spr | 9 weeks | 68 hours | Tue | 5p-9p | April 11 – June 6 + 3 Saturdays | Tuition: \$1,750 |
| Vancouver 3B | 301 | Fall | 15 weeks | 80 hours | Thu | 5p-9p | September 8 – December 22 + 3 Saturdays | Tuition: \$1,750 |
| Vancouver 3B | 302 | Wtr | 9 weeks | 68 hours | Thu | 5p-9p | January 5 – March 16 + 3 Saturdays | Tuition: \$1,750 |
| Vancouver 3B | 303 | Spr | 9 weeks | 68 hours | Thu | 5p-9p | April 13 – June 8 + 3 Saturdays | Tuition: \$1,750 |
| PLUMBING LEVEL 4 | | | | | | | | |
| Vancouver | 401 | Fall | 15 weeks | 80 hours | Thu | 5p-9p | September 8 – December 22 + 3 Saturdays | Tuition: \$1,750 |
| Vancouver | 402 | Wtr | 9 weeks | 68 hours | Thu | 5p-9p | January 5 – March 16 + 3 Saturdays | Tuition: \$1,750 |
| Vancouver | 403 | Spr | 9 weeks | 68 hours | Thu | 5p-9p | April 13 – June 8 + 3 Saturdays | Tuition: \$1,750 |



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