

PLUMBING AND FIRE PROTECTION, BASIC CERTIFICATE



College(s): KK

Program Code: 0753

The Basic Certificate program in Plumbing and Fire Protection program is designed to introduce students to plumbing and sprinkler systems through theory and hands on work. Upon successful completion, graduates will be qualified to work as a plumber's assistant and or fitter assistant.

Program Requirements effective Fall 2023

Code	Title	Hours
Required Program Core		
332TECH 409	Construction Safety	1
332TECH 432	Basic Arc Welding	2
332TECH 434	Introduction To Plumbing	3
332TECH 435	Plumbing Tools & Equipment	2
332TECH 436	Plumbing Codes	1
332TECH 437	Basic Plumbing Related Math	1
332TECH 438	Intro To Fire Protection	3
332TECH 439	Home Plumbing System	4
332TECH 472	Vocational Physical Training	2
330BSCM 532	Basic Computer Technology	1
Total Hours		20

Program Requirements prior to Fall 2023

Code	Title	Hours
Required Program Core		
332TECH 409	Construction Safety	1
332TECH 432	Basic Arc Welding	1
332TECH 434	Introduction To Plumbing	3

332TECH 435	Plumbing Tools & Equipment	2
332TECH 436	Plumbing Codes	1
332TECH 437	Basic Plumbing Related Math	1
332TECH 438	Intro To Fire Protection	3
332TECH 439	Home Plumbing System	4
332TECH 448	Vocational Physical Training I	1
332TECH 462	Vocational Physical Training II	1
332TECH 463	Vocational Physical Training III	1
330BSCM 532	Basic Computer Technology	1
Total Hours		20

Pathway

This is an **example course sequence** for students interested in plumbing and fire protection. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Plumbing and Fire Protection. This does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students - effective Fall 2023

All plans can be modified to fit the needs of part-time students by adding more semesters.

Semester 1		Hours
PHASE 1		
330BSCM 532	Basic Computer Technology	1
332TECH 409	Construction Safety	1
332TECH 432	Basic Arc Welding	2
332TECH 434	Introduction To Plumbing	3
332TECH 435	Plumbing Tools & Equipment	2
332TECH 436	Plumbing Codes	1
332TECH 472	Vocational Physical Training	2
PHASE 2		
332TECH 438	Intro To Fire Protection	3
332TECH 439	Home Plumbing System	4

332TECH 437	Basic Plumbing Related Math	1
	Hours	20
	Total Hours	20

Choose your courses with your College Advisor.

Semester-by-Semester Program Plan for Full-Time Students - prior to Fall 2023

Course	Title	Hours
Semester 1		
PHASE 1		
332TECH 409	Construction Safety	1
332TECH 448	Vocational Physical Training I	1
332TECH 432	Basic Arc Welding	1
332TECH 434	Introduction To Plumbing	3
332TECH 437	Basic Plumbing Related Math	1
PHASE 2		
332TECH 462	Vocational Physical Training II	1
332TECH 435	Plumbing Tools & Equipment	2
332TECH 436	Plumbing Codes	1
PHASE 3		
330BSCM 532	Basic Computer Technology	1
332TECH 463	Vocational Physical Training III	1
332TECH 438	Intro To Fire Protection	3
332TECH 439	Home Plumbing System	4
	Hours	20
	Total Hours	20

Hourly Wages

Entry-Level 10 th Percentile	\$18
Median 50 th Percentile	\$22
Senior-Level 90 th Percentile	\$33

Annual Job Openings

29 annual openings in Cook County

National Education Attainment

Here, you can see the level of education that people in this career complete.

Degree Program	% of Jobs
A high school diploma or less	54.29%
A certificate	26.83%
Some college	9.18%
An Associate degree	0.00%
A Bachelor's degree	0.00%
A Master's or Professional degree	9.69%
A Doctoral degree or more	0.00%

9.69% continue their education beyond an associate degree

Careers

This program can prepare students for the jobs listed below. Click on each one to learn more, including average earnings, annual job openings, and how much education people in that field have. For additional guidance and resources on career options, current City Colleges students and alumni can contact the Career Services Office (<https://www.ccc.edu/departments/Pages/Career-Services.aspx>).

Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters

Job Description

Help plumbers, pipefitters, steamfitters, or pipelayers by performing duties requiring less skill. Duties include using, supplying, or holding materials or tools, and cleaning work area and equipment.

Salary Based on Experience Level

Take a look at the average hourly/annual earnings for this career in Cook County

Lightcast earnings figures are based on OES data from the BLS and include base rate, cost of living allowances, guaranteed pay, hazardous-duty pay, incentive pay (including commissions and bonuses), on-call pay, and tips.

Annual Wages

Entry-Level 10 th Percentile	\$36,670
Median 50 th Percentile	\$46,031
Senior-Level 90 th Percentile	\$69,657