

# 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

Code	Title	Hours
<b>Required Program Core</b>		
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 449	Professional Development	2
332TECH 472	Vocational Physical Training	2
432CMGT 609	Construction Safety II	3
432CMGT 604	Blueprint and Specifications	3
CIS 120	Introduction to Computer Applications	3
<b>Total Hours</b>		<b>29</b>

## 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
<b>PHASE 1</b>		
432CMGT 609	Construction Safety II	3
CIS 120	Introduction to Computer Applications	3
332TECH 434	Introduction To Plumbing	3
332TECH 435	Plumbing Tools & Equipment	2
332TECH 437	Basic Plumbing Related Math	1
332TECH 436	Plumbing Codes	1
<b>PHASE 2</b>		
332TECH 432	Basic Arc Welding	2
332TECH 438	Intro To Fire Protection	3
332TECH 439	Home Plumbing System	4
332TECH 449	Professional Development	2
332TECH 472	Vocational Physical Training	2
432CMGT 604	Blueprint and Specifications	3
<b>Hours</b>		<b>29</b>
<b>Total Hours</b>		<b>29</b>

Choose your courses with your College Advisor.

## 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 <sup>th</sup> Percentile	\$34,674
Median 50 <sup>th</sup> Percentile	\$49,686
Senior-Level 90 <sup>th</sup> Percentile	\$76,385

#### Hourly Wages

Entry-Level 10 <sup>th</sup> Percentile	\$17
Median 50 <sup>th</sup> Percentile	\$24
Senior-Level 90 <sup>th</sup> Percentile	\$37

### Annual Job Openings

21 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