

# COMBINATION WELDER, BASIC CERTIFICATE



College(s): KK

Program Code: 0758

The Basic Certificate program in Combination Welder is designed to provide students with training in basic welding skills in a shop setting. In addition to learning welding mathematics, blueprint reading, and layout and fabrication, students are also introduced to the basic fundamentals of job safety and ethics. Graduates of this program are qualified for entry level employment as an ARC, MIG, or TIG welder.

Future Ready Eligible

## Program Requirements

Code	Title	Hours
<b>Required Program Core</b>		
332TECH 449	Professional Development	2
332TECH 472	Vocational Physical Training	2
332TECH 509	Intro to Basic Arc Welding	3
332TECH 518	Manufacturing Materials & Processes	1
332TECH 520	Arc Welding	4
332TECH 526	Welding Mathematics I	1
332TECH 530	Advanced Welding	4
432CMGT 609	Construction Safety II	3
432CMGT 604	Blueprint and Specifications	3
CIS 120	Introduction to Computer Applications	3
<b>Total Hours</b>		<b>26</b>

## Pathway

This is an **example course sequence** for students interested in pursuing welding. This does not represent a contract, nor does it guarantee course

availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Welder (Combination).

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## Semester-by-Semester Program Plan for Full-Time Students

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
432CMGT 604	Blueprint and Specifications	3
332TECH 472	Vocational Physical Training	2
332TECH 509	Intro to Basic Arc Welding	3
332TECH 526	Welding Mathematics I	1
<b>PHASE 2</b>		
332TECH 518	Manufacturing Materials & Processes	1
332TECH 520	Arc Welding	4
332TECH 530	Advanced Welding	4
<b>Hours</b>		<b>21</b>
<b>Semester 2</b>		
CIS 120	Introduction to Computer Applications	3
332TECH 449	Professional Development	2
<b>Hours</b>		<b>5</b>
<b>Total Hours</b>		<b>26</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>).

## Welders, Cutters, Solderers, and Brazers

### Job Description

Use hand-welding, flame-cutting, hand-soldering, or brazing equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products.

### 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	\$34,923
Median 50 <sup>th</sup> Percentile	\$48,427
Senior-Level 90 <sup>th</sup> Percentile	\$71,171

#### Hourly Wages

Entry-Level 10 <sup>th</sup> Percentile	\$17
Median 50 <sup>th</sup> Percentile	\$23
Senior-Level 90 <sup>th</sup> Percentile	\$34

### Annual Job Openings

458 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	74.38%
A certificate	11.64%
Some college	11.28%
An Associate degree	1.75%
A Bachelor's degree	0.94%
A Master's or Professional degree	0.00%
A Doctoral degree or more	0.00%

0.94% continue their education beyond an associate degree