

# WELDING TECHNOLOGY

WILSON  
COMMUNITY  
COLLEGE

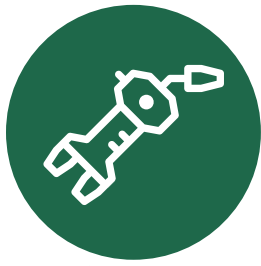


## About the Program

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metal industry. This program provides the student with industry-standard skills developed through classroom training and practical application.

## Coursework

- Electrode Welding
- Cutting Processes
- Blueprint Reading
- Welding Inspection
- Metallurgy



## Careers Available

- Manufacturing
- Quality Control
- Construction
- Supervision
- Fabrication
- Sales



## The Workplace

Graduates should qualify for entry-level jobs in the welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related self-employment.

Graduates have skills that are attractive to many public and private employers, and a diploma or certificate in Welding Technology can position students to earn good wages. Starting salaries may range from \$25,000 to \$50,000.

## *Diploma & Certificate Programs Offered*

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## WELDING TECHNOLOGY DIPLOMA (D50420)

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metal industry. Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses in math, blueprint reading, metallurgy, welding inspection, and destructive and non-destructive testing provides the student with industry-standard skills developed through classroom training and practical application.

Successful graduates of the Welding Technology curriculum may be employed as entry-level technicians in welding and metal working industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related self-employment.

### COURSE & HOUR REQUIREMENTS

Course Number & Name	Class Hours	Lab Hours	Credit Hours
<b>FALL SEMESTER</b>			
ACA 111 College Student Success	1	0	1
CIS 110 Introduction to Computers	2	2	3
WLD 110 Cutting Processes	1	3	2
WLD 115 SMAW (Stick) Plate	2	9	5
WLD 121 GMAW (MIG) FCAW/Plate	2	6	4
WLD 131 GTAW (TIG) Plate	2	6	4
<b>Total</b>	<b>10</b>	<b>26</b>	<b>19</b>
<b>SPRING SEMESTER</b>			
*MAT 110 Mathematical Measurement and Lit.	2	2	3
WLD 116 SMAW (Stick) Plate/Pipe	1	9	4
WLD 117 Industrial SMAW	1	4	3
WLD 132 GTAW (Tig) Plate/Pipe	1	6	3
WLD 141 Symbols & Specifications	2	2	3
<b>Total</b>	<b>7</b>	<b>23</b>	<b>16</b>
<b>SUMMER SEMESTER</b>			
*ENG 111 Writing & Inquiry	3	0	3
WBL 111 Work-Based Learning I	0	10	1
WLD 151 Fabrication I	2	6	4
WLD 261 Certification Practices	1	3	2
WLD 262 Inspection & Testing	2	2	3
<b>Total</b>	<b>8</b>	<b>21</b>	<b>13</b>
<b>TOTAL SEMESTER CREDIT HOURS FOR DIPLOMA</b>			<b>48</b>

\*This course is a component of the general education requirements needed for graduation.

**NOTE:** Students are required to take ACA 111 in their first semester.

## BASIC CERTIFICATE (C50420B)

### COURSE & HOUR REQUIREMENTS

Class Title	Class Hours	Lab Hours	Credit Hours
WLD 110 Cutting Processes	1	3	2
WLD 115 SMAW (Stick) Plate	2	9	5
WLD 121 GMAW (MIG) FCAW/Plate	2	6	4
WLD 131 GTAW (TIG) Plate	2	6	4
<b>TOTAL SEMESTER CREDIT HOURS FOR CERTIFICATE</b>	<b>7</b>	<b>24</b>	<b>15</b>

**NOTE:** This certificate can be completed in 3 semesters.

## INTERMEDIATE CERTIFICATE (C50420I)

### COURSE & HOUR REQUIREMENTS

Class Title	Class Hours	Lab Hours	Credit Hours
WLD 116 SMAW (Stick) Plate/Pipe	1	9	4
WLD 117 Industrial SMAW	1	4	3
WLD 132 GTAW (Tig) Plate/Pipe	1	6	3
WLD 141 Symbols & Specifications	2	2	3
<b>TOTAL SEMESTER CREDIT HOURS FOR CERTIFICATE</b>	<b>5</b>	<b>21</b>	<b>13</b>

**NOTE:** Day only course offerings.

## ADVANCED CERTIFICATE (C50420A)

### COURSE & HOUR REQUIREMENTS

<b>Class Title</b>	<b>Class Hours</b>	<b>Lab Hours</b>	<b>Credit Hours</b>
CIS 110 Introduction to Computers	2	2	3
WBL 111 Work-Based Learning I	0	10	1
WLD 151 Fabrication I	2	6	4
WLD 261 Certification Practices	1	3	2
WLD 262 Inspection & Testing	2	2	3
<b>TOTAL SEMESTER CREDIT HOURS FOR CERTIFICATE</b>	<b>7</b>	<b>23</b>	<b>13</b>

**NOTE:** Day only course offerings.