

# ADVANCED WELDING, CERTIFICATE - WLD8

The Advanced Welding Certificate provides the student with the skills necessary to perform tasks to the American Welding Society (AWS) standards in multiple processes. Through a combination of classroom and laboratory training, the student will learn the applications of Gas Metal Arc Welding (GMAW), Shielded Metal Arc Welding (SMAW), and Gas Tungsten Arc Welding (GTAW), as well as the necessary safety, blueprint reading, and practical application skills needed for employment in today's welding industry.

## Requirements

Courses	Course Title	Credit Hours
<b>Required Course Information</b>		
WLD 102	Introduction to Welding	2
WLD 103	Print Reading I	1
WLD 105	Print Reading II	1
WLD 108	Gas Metal Arc Welding I	4
WLD 113	Arc Welding II	4
WLD 115	Arc Welding III	4
WLD 222	Advanced Fabrication Welding	4
WLD 132	Inert Gas Welding Ferrous	4
WLD 136	Advanced Inert Gas Welding	2
WLD 142	Maintenance Welding	3
WLD 154	Pipefitting and Welding	4
WLD 208	Advanced Pipe Welding	3
WLD 229	Inert Gas Welding Pipe II	2
Subtotal		38
<b>Total Hours</b>		<b>38</b>

## Graduation Plan

### Fall Start

Course	Title	Hours
<b>First Year</b>		
<b>Fall Semester</b>		
WLD 102	Introduction to Welding	2
WLD 103	Print Reading I	1
WLD 108	Gas Metal Arc Welding I	4
WLD 142	Maintenance Welding	3
<b>Hours</b>		<b>10</b>

### Spring Semester

WLD 105	Print Reading II	1
WLD 113	Arc Welding II	4
WLD 115	Arc Welding III	4
WLD 222	Advanced Fabrication Welding	4
<b>Hours</b>		<b>13</b>

### Summer Semester

WLD 132	Inert Gas Welding Ferrous	4
WLD 154	Pipefitting and Welding	4
<b>Hours</b>		<b>8</b>

### Second Year

#### Fall Semester

WLD 136	Advanced Inert Gas Welding	2
WLD 208	Advanced Pipe Welding	3
WLD 229	Inert Gas Welding Pipe II	2
<b>Hours</b>		<b>7</b>
<b>Total Hours</b>		<b>38</b>

### Spring Start

Course	Title	Hours
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#### First Year

##### Spring Semester

WLD 102	Introduction to Welding	2
WLD 103	Print Reading I	1
WLD 108	Gas Metal Arc Welding I	4
WLD 142	Maintenance Welding	3
<b>Hours</b>		<b>10</b>

#### Summer Semester

WLD 113	Arc Welding II	4
WLD 115	Arc Welding III	4
<b>Hours</b>		<b>8</b>

#### Fall Semester

WLD 105	Print Reading II	1
WLD 132	Inert Gas Welding Ferrous	4
WLD 154	Pipefitting and Welding	4
WLD 222	Advanced Fabrication Welding	4
<b>Hours</b>		<b>13</b>

### Second Year

#### Spring Semester

WLD 136	Advanced Inert Gas Welding	2
WLD 208	Advanced Pipe Welding	3
WLD 229	Inert Gas Welding Pipe II	2
<b>Hours</b>		<b>7</b>
<b>Total Hours</b>		<b>38</b>

### Summer Start

Course	Title	Hours
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#### First Year

##### Summer Semester

WLD 102	Introduction to Welding	2
WLD 108	Gas Metal Arc Welding I	4
WLD 142	Maintenance Welding	3
<b>Hours</b>		<b>9</b>

#### Fall Semester

WLD 103	Print Reading I	1
WLD 113	Arc Welding II	4
WLD 115	Arc Welding III	4
<b>Hours</b>		<b>9</b>

#### Spring Semester

WLD 105	Print Reading II	1
WLD 132	Inert Gas Welding Ferrous	4
WLD 154	Pipefitting and Welding	4
WLD 222	Advanced Fabrication Welding	4
<b>Hours</b>		<b>13</b>

#### Second Year

##### Summer Semester

WLD 136	Advanced Inert Gas Welding	2
WLD 208	Advanced Pipe Welding	3
WLD 229	Inert Gas Welding Pipe II	2
<b>Hours</b>		<b>7</b>
<b>Total Hours</b>		<b>38</b>

## Application and Advising

If you are ready to start your education, there are a few simple steps involved in enrolling at Piedmont Technical College.

Get Started Today (<https://www.ptc.edu/admissions/new-students/>)

## Advising Information

The following information provides a guide for advisors who are helping students enroll in this program.

### Program Notes

- Students may begin this program in the fall, spring and summer semesters depending on booth availability.
- WLD courses are offered during days and evenings.
- Students who work alternating shifts are encouraged to enroll in the certificate program and to rotate between day and evening classes to fit his/her work schedule.
- Graduates can complete an Associate Degree in General Technology with completion of additional coursework.
- Students should be prepared to purchase first semester welding supplies costing \$226.60. Supplies for the second semester of welding will cost approximately \$150.

## Program Student Learning Outcomes

- Read and interpret occupationally-specific blueprints for welders.
- Perform Gas Metal Arc, Shielded Metal Arc, and Gas Tungsten Arc welds to acceptable industry standards.
- Demonstrate the necessary skills needed to apply GMAW, SMAW, AND GTAW on various joint designs.
- Understand and demonstrate occupational welding safety practices.