

# WELDING TECHNOLOGY, CERTIFICATE COMPETENCY (WLD)

Effective: Spring 2016

The Welding Technology Certificate provides training in the field of industrial welding. This Certificate offers practical training and relevant theory in Shielded Metal Arc Welding, Gas Tungsten Arc Welding, Gas Metal Arc Welding, Flux cored Arc Welding, Oxy-fuel Welding and Cutting, Plasma Cutting, as well Welding Inspection.

## Program Outcomes

Upon successful completion of this program, students should be able to:

- Demonstrate basic competencies in the four primary welding processes used in industry today.
- Use welding electrodes in four positions.
- Interpret blueprints and welding symbols.
- Apply non-destructive testing required in industry.
- Demonstrate mastery of knowledge of basic metallurgy.
- Employ occupational safety and health principles and practices.
- Demonstrate knowledge of inspection principles and practices.

## Full-Time Academic Plan

The College will award a certificate of competency to students who complete an approved credit-bearing career program that requires less than 30 credits. General education courses may not be required for programs that have less than 30 credits. The student must have a cumulative GPA of 2.0 or higher. At least six credit hours must be in courses that are awarded grade points.

First Semester		Hours
WLD 100	Introduction to Welding	2
WLD 101	Introduction to Oxy-Fuel Welding and Cutting	2
WLD 103	Shielded Metal Arc Welding I	2
WLD 104	Shielded Metal Arc Welding II	2
<b>Hours</b>		<b>8</b>
Second Semester		
WLD 105	Intermediate Shielded Metal Arc Welding I	2
WLD 106	Intermediate Shielded Metal Arc Welding II	2
WLD 111	Printing Reading and Shop Math for Fabricators	3
Welding Elective		2
<b>Hours</b>		<b>9</b>
Third Semester		
WLD 200	Gas Metal Arc I	2
WLD 202	Advanced Shielded Arc Welding I	2
WLD 204	Gas Tungsten Arc Welding I	2
<b>Hours</b>		<b>6</b>
Fourth Semester		
WLD 201	Gas Metal Arc II	2
WLD 203	Advanced Shielded Arc Welding II	2
WLD 205	Gas Tungsten Arc Welding II	2
<b>Hours</b>		<b>6</b>
<b>Total Hours</b>		<b>29</b>

## Part-Time Academic Plan Part-Time Evening Schedule

The WLD courses are all offered in the evening except for WLD 101 Introduction to Oxy-Fuel Welding and Cutting

Students with advising questions should speak to the Welding coordinator, Patrick Dougherty (pdougherty@dccc.edu) @ 610-359-5114

Code	Title	Hours
First Semester		
WLD 100	Introduction to Welding	2
WLD 103	Shielded Metal Arc Welding I	2
Second Semester		
WLD 104	Shielded Metal Arc Welding II	2
WLD 200	Gas Metal Arc I	2
Third Semester		
WLD 105	Intermediate Shielded Metal Arc Welding I	2
WLD 111	Printing Reading and Shop Math for Fabricators <sup>1</sup>	3
Any Semester Course *		
Fourth Semester		
WLD 106	Intermediate Shielded Metal Arc Welding II	2
WLD 201	Gas Metal Arc II	2
Fifth Semester		
WLD 202	Advanced Shielded Arc Welding I	2
WLD 204	Gas Tungsten Arc Welding I	2
Any Semester Course *		
Sixth Semester		
WLD 203	Advanced Shielded Arc Welding II	2
WLD 205	Gas Tungsten Arc Welding II	2
Any Semester*		
WLD 101	Introduction to Oxy-Fuel Welding and Cutting <sup>2</sup>	2
Welding Electives		2-3
WLD 152	Welding Codes and Specifications	
WLD 154	Welding Metallurgy <sup>1</sup>	
<b>Total Hours</b>		<b>29-30</b>

<sup>1</sup> WLD 111 and WLD 154 are offered in the evenings and late afternoon on an alternating semester rotation.

<sup>2</sup> WLD 101 may not be offered in the evening. Check schedule.

\* **Any Semester Course** may be taken in any order.

## Career