

Welding - Shield Metal Arc/Stick Welding Career Pathway Certificate

Less-Than-One-Year Certificate of Completion

This career pathway certificate is designed to recognize students' accomplishments in welding and prepare them for entry-level work experiences in the welding industry. Students will have an understanding of the skills necessary to be valuable employees in the industrial welding trades. Credit from this certificate will transfer to the one-year welding certificate.

Program Learning Outcomes

Upon successful completion of the certificate, students will be able to:

- Use accepted industrial welding safety standards in the shop and in the field.
- Use a variety of welding processes (SMAW, GMAW, FCAW, oxy fuel, plasma cutting, GTAW) in the shop and in the field.
- Interpret welding blueprints in order to fabricate shop projects.
- Determine which welding process, settings, and materials to use depending on the application.
- Develop a welding procedure for specific applications.
- Apply fundamentals of metallurgy to identify metals and to perform heat treatment.

Program Requirements

Number of credit hours necessary for completion: **12**

Technical Core

- [WLD 101 - Welding Processes & Applications](#) **3.00 credits**
 - [WLD 114 - Shielded Metal Arc Weld: Mild Steel I](#) **3.00 credits**
 - [WLD 115 - Shielded Metal Arc Weld: Mild Steel II](#) **3.00 credits**
 - [WLD 253 - Welding Cert Practice 3/8 or 1 Inch Mild Steel](#) **3.00 credits**
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KLAMATH COMMUNITY COLLEGE

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Fall Term 2021

On Campus Courses

CGS100.03	College Survival & Success	MWF	1:00 - 1:50
CAS133.02	Intro to Computing Skills Lecture	M, W	2:00 - 3:20
CAS133L.02	Intro to Computing Skills Lab	T, R	2:00 – 3:20
WLD101.01	Welding Processes & Applications	T, R	8:00 – 10:50
WLD114.01	Shielded Metal Arc Weld: Mild Steel I (<u>Prerequisite</u> WLD101)	M, W	8:00 – 10:50
WLD115.01	Shielded Metal Arc Weld: Mild Steel II (<u>Prerequisite</u> WLD114)	M, W,	9:00 – 11:50

Welding Courses WLD101 and WLD114 must be taken at the same time to obtain credit for both
Note: If WLD114 is taken separately the pre-requisite of WLD101 applies

WLD253.01	Welding Cert. Practice 3/8- or 1-inch (<u>Prerequisite</u> WLD114)	T, R	11:00 – 1:50
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Online Courses

CGS100.01DE	College Survival & Success		
CAS133.01DE	Intro to Computing Skills Lecture		
CAS133L.01DE	Intro to Computing Skills Lab		



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Winter Term 2022

On Campus Courses

WLD101.01	Welding Process & Applications	T, R	8:00 – 10:50
WLD114.01	Shielded Metal Arc Weld: Mild Steel I (Prerequisite: WLD101)	M, W	8:00 – 10:50

Welding Courses WLD101 and WLD114 must to be taken at the same time to obtain credit for both
Note: If WLD114 is taken separately the pre-requisite of WLD101 applies

WLD115.01	Shielded Metal Arc Weld: Mild Steel II (Prerequisite: WLD114)	M, W	9:00 – 11:50
WLD253.01	Welding Cert Practice 3/8- or 1-inch Mild Steel (Prerequisite: WLD114)	T, R	11:00 – 1:50



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Spring Term 2022

On Campus Courses

WLD115.01	Shielded Metal Arc Weld: Mild Steel II (Prerequisite: WLD114)	M, W	9:00 – 11:50
WLD253.01	Welding Certificate Practice 3/8 or 1”	T, R	11:00 – 1:50