



NSCC is accredited by:
The Higher Learning Commission
312.263.0456
ncahigherlearningcommission.org

GET STARTED TODAY.

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WELDING TECHNOLOGIES

**NORTHWEST STATE
COMMUNITY COLLEGE**

INDUSTRIAL WELDING CERTIFICATE

This program will provide students with the technical skills and knowledge to work in the industrial welding field as a welder/fabricator, production welder, millwright, welding technician and welder/pipe fitter. Students are trained in many welding processes which include:

- shield material arc welding
- gas metal arc welding
- gas tungsten arc welding
- flux core arc welding
- oxy fuel gas welding/cutting and plasma arc cutting

Various kinds of metals and thicknesses will be used including mild steel, aluminum and stainless steel. Testing will be done in accordance with the American Welding Society's codes and procedures.

Students will receive quality, hands-on training for the correct compliance with industry standards in safety, the proper use of manufacturing equipment, and how to correctly apply and interpret welding symbols and prints. Students will develop the knowledge and skill in selecting and utilizing the major welding processes in all positions and on a variety of ferrous and non ferrous metals. Most of the welding classes will have about 20 percent of the learning experience in the classroom and 80 percent in the laboratory with hands-on training. Students will gain the knowledge of industrial welding codes, standards and procedures set by the American Welding Society. Students whose welding skills advance may take the College's plate and pipe pre-certification test.

CAREER OUTLOOK

Welding is one of the few career choices that is high in demand at all times. Since welders are needed in almost every industry, it gives you the flexibility to switch industries without changing careers. With the increase of manufacturing, the building and repairing of major infrastructure, nuclear power plants, windmills, or drilling of oil, welding has endless opportunities that keep fueling the demand. Join with Northwest State Community College to weld our futures together!



COURSE CURRICULUM

First Semester		Credits
WLD100	Blue Print Reading and Weld Symbols	2
WLD110	Introduction of Applied Welding Techniques and Processes	3
WLD120	Gas Metal Arc Welding	3
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		8
Second Semester		Credits
WLD130	Flat & Horizontal Shield Metal Arc Welding	3
WLD140	Gas Tungsten Arc Welding	3
WLD150	Advance Gas Metal Arc Welding	3
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		9
Third Semester		Credits
WLD210	Vertical & Overhead Shield Metal Arc Welding	3
WLD220	Advanced Gas Tungsten Arc Welding	3
WLD230	Welding & Fabrical Layout	3
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		9
Fourth Semester		Credits
WLD240	Shield Metal Arc Welding	3
WLD250	Plate Procedure & Test	3
WLD260	Pipe Pre-Certification	3
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		9
Total Program Credit Hours		35

Students must maintain a "C" or better in all courses in order to proceed in the program and earn the SMAW, GMAW and GTAW certificates.