

## PROGRAM PURPOSE

Structural welding is a certificate program designed to prepare students for the American Welding Society Structural Welding Qualification test, a national certification. Students will have the opportunity to develop skills in the shielded metal arc welding process that qualify them to sit for the test.

Students will learn about materials being used, hand and power tools for the job, safety in the workplace, and the correct procedures for the tasks assigned.

Enrolling in a structural welding program opens the door to a fulfilling and high-demand career in the construction and manufacturing industries. This program provides hands-on training and theoretical knowledge, equipping students with the skills needed to create strong, safe structures. With the growing need for infrastructure development and repair, certified structural welders enjoy excellent job prospects, competitive salaries, and opportunities for career advancement. Additionally, the program emphasizes safety and precision, ensuring graduates are well-prepared to meet industry standards and contribute effectively to various projects.

## CAREER OPPORTUNITIES

As a skilled structural welder, you'll be equipped to work on a variety of projects, including the construction of buildings, bridges, pipelines, and industrial structures. The need for qualified welders is ever-growing, offering job security, competitive wages, and opportunities for advancement. With the ability to work on critical infrastructure projects, your skills will be essential to ensuring the safety and stability of numerous structures. Graduates of the program may find employment opportunities with:

- Industrial contractors
- Ship yards
- Machine shops
- Fabrication shops
- Manufacturing facilities



## APPLICATION PROCEDURE

*The following procedures constitute the admissions process:*

- 1 Submit an NMCC application.  
Submit official high school transcript and/or HiSET/GED scores (current senior's ranking period grades).
- 2 Official college transcripts for applicants who have attended other post-secondary schools.
- 3 If SAT scores are not available, placement testing may be required.
- 4 Meet with an Admissions Counselor.
- 5 A campus tour is highly recommended.
- 6

## GET IN TOUCH

207-768-2785

[www.nmcc.edu](http://www.nmcc.edu)  
[nmccadmissions@mainecc.edu](mailto:nmccadmissions@mainecc.edu)

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Presque Isle, ME 04769

**STRUCTURAL WELDING**  
2024-2025  
Certificate Program

<b>First Semester</b>			<b>C</b>	<b>L</b>	<b>CR</b>	
	DRR 109	(DRFT 109)	Print Reading for Welders	2	2	3
	MAT 122	(MATH 130)	Technical Mathematics	2	2	3
>	<b>WEI 101</b>	<b>(WELD 101)</b>	<b>Introduction to Welding (*4 weeks)</b>	<b>2</b>	<b>2</b>	<b>3</b>
>	<b>WEI 133</b>	<b>(WELD 133)</b>	<b>Electric Welding (*4 weeks)</b>	<b>2</b>	<b>2</b>	<b>3</b>
>	<b>WEI 137</b>	<b>(WELD 137)</b>	<b>Structural Welding I (*7 weeks)</b>	<b>1.5</b>	<b>4.5</b>	<b>3</b>
				<b>9.5</b>	<b>12.5</b>	<b>15</b>
<b>Second Semester</b>			<b>C</b>	<b>L</b>	<b>CR</b>	
	ENG 111	(ENGL 101)	English Composition	3	0	3
	SAE 121	(OSHA 121)	Industrial Safety	3	0	3
>	<b>WEI 138</b>	<b>(WELD 138)</b>	<b>Structural Welding II (*7.5 weeks)</b>	<b>1.5</b>	<b>4.5</b>	<b>3</b>
>	<b>WEI 139</b>	<b>(WELD 139)</b>	<b>Open Root Welding (*7.5 weeks)</b>	<b>1.5</b>	<b>4.5</b>	<b>3</b>
	WEI 140	(WELD 140)	Plasma Table Operations	1	2	2
>	<b>WEI 141</b>	<b>(WELD 141)</b>	<b>Fluxcore Arc Welding</b>	<b>2</b>	<b>2</b>	<b>3</b>
				<b>12</b>	<b>13</b>	<b>17</b>
<b>Total Required</b>						<b>32</b>

> **Major courses; a minimum grade of "C" or 2.0 is required**  
Key: C=Class hours; L=Laboratory; CR=Credit hours

\*\*Note: WEI courses within a semester are scheduled sequentially not concurrently.