# Welding Youth Apprenticeship



#### **WELDING**

Welding youth apprentices practice welding fabrication processes in various industry environments. Apprentices must adhere to industry safety and security standards.

**Length of Apprenticeship:** One or two years

#### **OCCUPATIONAL COMPETENCIES**

Welding youth apprentices must complete **a total of 25** competencies. All **7** Manufacturing Fundamentals Competencies must be complete. No substitutions to this list. **Seventeen** of the 18 Welding competencies listed below must be complete. Employers can substitute up to **1** competency with another occupationally appropriate skill. Substitutions must be added to the competency list for assessment. Note that where necessary, skills can be simulated.

NOTE: Students completing a 2-year welding youth apprenticeship must select different welding processes than the first year.

\*\*\*Students who completed a previous Manufacturing YA program do *not* need to repeat the Manufacturing Fundamentals Competencies.

Manufacturing Fundamentals Competencies		Welding Competencies	
1.	Focus on customer needs	1.	Read welding technical drawings and work
2.	Use various instruments		orders
3.	Operate tools and equipment safely	2.	Interpret welding symbols and procedures
4.	Practice quality assurance principles	3.	Layout and plan work
5.	Follow personal safety requirements	4.	Perform safety checks
6.	Maintain a safe work environment	5.	Prepare base metal
7.	Demonstrate professional role to be used	6.	Set up to fabricate base metal
	in an emergency	7.	Set up welding job
		8.	Fabricate base metal
		9.	Cut metal thermally/chemically
		10.	Tack work pieces
		11.	Weld metal
		12.	Monitor product and process
		13.	Assist inspection of completed metal piece
		14.	Process production documents
		15.	Clean up
		16.	Monitor equipment for correct operation

17. Perform routine preventive maintenance (PM)
18. Document equipment use, PM, and/or
operational problems

### REGISTERED APPRENTICESHIP BRIDGING OPPORTUNITIES

Some of the related instruction courses can bridge into the following registered apprenticeship:

- Welding Fabricator
- Industrial Manufacturing Technician

## **POST-SECONDARY PATHWAY OPPORTUNITIES**

There are several post-secondary pathway opportunities in this area. Following is partial list.

- Welding Technical Diploma
- Welding and Metal Fabrication Technical Diploma
- Welding Fabrication Technical Diploma