

**NORTHERN LIGHTS COLLEGE
REGISTRAR'S OFFICE
PROGRAM INFORMATION AND COMPLETION GUIDE**

Program Name: Welder-Fabricator Foundation
Credential/Certification: Certificate in Welder-Fabricator Foundation
Date Submitted: June 2024
Effective Date: September 2024

Program Contact: trades@nlc.bc.ca

Dean: Leo Manning

Document Author: Leo Manning

Program Description: Welder-Fabricators weld ferrous and non-ferrous metals in all positions, using SMAW (Shielded Metal Arc Welding), GMAW (Gas Metal Arc Welding), MCAW (Metal Core Arc Welding), and FCAW (Flux-Cored Arc Welding) processes.

Welder-Fabricators use manual and semi-automatic welding equipment, flame-cutting, brazing, and air-arcing equipment to fabricate plates and construct templates and jigs. They also manufacture structural components from blueprints and structural steel drawings by interpreting the common weld symbols and bolted connections.

Completing this program will assist Welder-Fabricators in finding entry-level work in the custom fabrication, construction, mass production, maintenance, petroleum, mining, forestry, and shipyard industries.

This program provides technical training credit that students can transfer to Level 2 of a Metal Fabricator or Welder apprenticeship and 225 work-based hours credit towards completing their chosen pathway..

Admission Requirements:

Math – one of the following:

BC Math 10 (minimum final grade of C+), or BC Math 11 or BC Math 12 (minimum final grade of C), or equivalent.

MATH 030 or higher, with a minimum final grade of C+, or equivalent.

English – one of the following:

BC Language Arts 10 Courses – 4 credits earned, minimum individual grade of C+, or equivalent.

BC Language Arts 11 Courses – 4 credits earned, minimum individual grade of C+, or equivalent.

BC Language Arts 12 Courses – 4 credits earned, minimum individual grade of C+, or equivalent.

ENGL 030 or higher, with a minimum final grade of C+, or equivalent.

IELTS score of 5.5 overall with no band less than 5.0 or equivalent English placement test and score.

OR

ESTR 037 (Intermediate-Level Essential Skills for Trades) with a minimum final grade of 67%.

OR

Successful completion of the NLC POWER program.

Length of Program: (weeks and total hours) approx. 34 weeks (960 hours)

Program Intake: (start/finish dates) September/June

Available Seats: 16

Application Deadline: All completed applications must be received one month prior to the start of the program. Completed applications received after this date will be reviewed based on seat availability.

Career Prospects: Fabricator-Welders can find employment with companies that manufacture structural steel and plate work, boilers, heavy machinery, aircraft, ships, and other metal products, in industries including petroleum, mining, forestry, and shipyards. They also may be self-employed in the industry.

Affiliations/Partnerships:

Industry Training Authority, SD 59, SD 60, SD 81 and SD 87

Location: Dawson Creek

Additional Requirements/Supplies: (fees, supplies, materials)

Students are required to have a computer (PC or laptop) with minimum computer requirements as listed on the NLC website (www.nlc.bc.ca/Services/Information-Technology/minPC).

A complete list of tools and equipment will be provided upon acceptance to the program which will include required CSA approved leather boots with safety toe and shank, clear lense safety glasses and flame resistant coveralls - welders' safety clothing, leather gloves, leather jacket or apron, welding helmet and cutting goggles

Eligibility for Canada Student Loans: (Yes or No)

Yes

Required Minimum Grade: (overall and/or minimum within a course)

70%

Residency Requirement: (percentage of courses which must be taken at NLC)

100%

Required Courses: (list courses required to complete credential
and total hours for each course)

WELF 150 (960 hours)