

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

Program Name: Welder Foundation
Credential/Certification: Certificate in Welder Foundation
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Program Description: Welders have training in and are capable of welding ferrous and non-ferrous metals in all positions, on both plate and/or pipe, using SMAW (Shielded Metal Arc Welding), GTAW (Gas Tungsten Arc Welding), and FCAW (Flux-Cored Arc Welding) processes. Welders use manual or semi-automatic welding equipment. They use flame-cutting, brazing and air-arcing equipment. Additionally, they use machines such as brakes, shears and other metal straightening and bending machines. Welders generally plan work from drawings or by analyzing the job tasks, determine the materials required and welding processes, then use their knowledge of welding to complete the job. They may specialize in certain types of welding such as custom fabrication, shipbuilding and repair, pressure vessel welding, pipeline construction welding, structural construction welding or machinery and equipment repair welding. Welders use blueprint symbols to determine machining operations. They check product specifications using precision measuring instruments, and maintain equipment and replace parts when required.

Certified welders will qualify to test for Pressure Welding Procedure tests in British Columbia (PWP), BCP-100. Pressure Certification procedural testing is administered by the BC Safety Authority.

Welders use a logbook to record training, competencies, certifications, endorsements and employment history.

There is Reading week included in this program (30 hours) that will occur in the last week of February each year (exact dates will vary).

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

Canadian Adult Achievement Test (CAAT):

- Reading Comprehension: 11.0 grade equivalent or higher
- Number Operations: 11.0 grade equivalent or higher
- Problem Solving: 11.0 grade equivalent or higher
- Mechanical Reasoning: 51/70 (6th Stanine) or higher

Based on the results of the assessment(s), applicants may be required to participate in an assessment interview to determine admissibility. Interviews may be conducted virtually if necessary.

OR

Successful completion of the NLC POWER program.

Length of Program: (weeks and total hours) 28 weeks (840 hours)

Program Intake: (start/finish dates)

Start: September

Finish: March/April

Available Seats: 16

Application Deadline: 1 week prior to class start

Career Prospects: Welders can find employment with companies that manufacture structural steel and plate work, boilers, heavy machinery, aircraft, ships, and other metal products, and by welding contractors and welding shops. They also may be self-employed.

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 by Admissions upon acceptance to the program which will include required CSA approved leather boot 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 101 (840 hours)