

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

Program Name: Industrial Instrument Mechanic Foundation
Trades Training

Credential/Certification: Certificate in Industrial Instrument Mechanic
Foundation/Level One

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Dean: Jeff Lekstrom

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Program Description:

This program prepares students for entrance into the field of Industrial Instrument Mechanics by providing them with the basic knowledge, skills and technical training that employers are seeking in new hires.

Industrial Instrument Mechanics install, repair, maintain, and adjust instruments used to measure and control industrial processes such as pulp and paper manufacturing and petrochemical production. These types of instruments are typically used for controlling factors like the:

- flow of things such as gases or liquids
- temperature of materials or stages of a process
- pressure maintained during a process
- level of a material used or created during a process

Industrial Instrument Mechanics are often employed by pulp and paper processing companies, hydroelectric power generating companies or mining, petrochemical and natural gas companies. They help these companies diagnose fault and perform preventive maintenance by inspecting and testing the instruments and systems in use. Industrial Instrument Mechanic is a nationally designated trade under the Inter-provincial Red Seal program.

Industrial Instrument Mechanics also calibrate components and instruments according to manufacturer's specifications and troubleshoot and tune industrial processes. Many of the instruments that they maintain are key to automating part (or all) of a manufacturing process.

Admission Requirements:

Secondary school dual credit students

Grade 11 level completion that includes:

- Grade 11 English, or ENGL040, with 67 per cent (C+) or higher;
- Grade 11 Math (Pre-Calculus 11), or MATH040, with 67 per cent (C+) or higher; and
- Grade 11 Physics (or equivalent), with 67 per cent (C+) or higher.

Adults

Submission of a secondary school transcript indicating Grade 11 level completion that includes:

- Grade 11 English, or ENGL040, with 67 per cent (C+) or higher;
- Grade 11 Math (Applications, Principles or Pre-Calculus 11), or MATH040, with 67 per cent (C+) or higher; and
- Grade 11 Physics (or equivalent), with 67 per cent (C+) or higher.

Adults or secondary school dual credit students – Completion of assessment

An applicant who does not have the above academic background is required to write an assessment in Reading Comprehension, Number Operations, Problem Solving, Mechanical Reasoning, and Electrical Math. A minimum Grade Equivalent (GE) score of 12.0 or higher is required for Reading Comprehension; 11.0 or higher is required for Number Operations and Problem Solving; an above average score (51/70; 6th Stanine) is required for Mechanical Reasoning; and a score of 70 per cent or higher in Electrical Math. Based on the results of the assessment(s), applicants may be required to participate in an assessment interview to determine admissibility.

Length of Program: (weeks and total hours) 21 weeks, 630 hours

Program Intake: (start/finish dates) Refer to the Trades Schedule

Available Seats: 16

Application Deadline: one week prior to course start date

Career Prospects:

Because their work can affect millions of dollars of production, Industrial Instrument Mechanics are in demand. Industrial Instrument Mechanics are sometimes placed under tight deadlines to complete work.

Affiliations/Partnerships:

Industry Training Authority

Location:

Fort St. John

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

Supplies and material fees can be expected, refer to the Tuition Schedule

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 Northern Lights College)

100% or approval of the Dean

Required Courses: (list courses required to complete credential)

IIFT 090	Industrial Instrument Mechanic Foundation
IIFT 100	Industrial Instrument Mechanic Level 1
IIFT 150	Industrial Instrument Mechanic Practicum