

Full Time 2025 - 2026

BRIEF DESCRIPTION: This occupation is most rewarding for those who enjoy variety, security and doing precision work with machinery and equipment. Industrial Mechanics (Millwrights) install, maintain, repair and troubleshoot stationary industrial machinery and mechanical equipment in sites such as factories, production plants and recreational facilities. To be successful in their trade, Industrial Mechanics need the strength and stamina required to work with heavy equipment weighing in excess of 25 kilograms, good coordination and manual dexterity, the ability to visualize a layout by looking at plans and blueprints, the ability to comprehend and trouble-shoot mechanical systems, the ability to get along with and sometimes supervise the work of others. Further Educational Training opportunities: Industrial Mechanic Apprenticeship Program: First Period, Second Period, Third Period, and Fourth Period. Through the Program, tradespersons can obtain a Red Seal endorsement on their provincial/territorial certificates by successfully completing an interprovincial Red Seal examination. The Interprovincial Standards Red Seal Program acknowledges their competence and ensures recognition of their certification throughout Canada without further examination. Industrial mechanics (millwrights) often possess overlapping skills with other trades such as steamfitter/pipefitter, industrial instrument mechanic, welder, machinist or industrial electrician. They may be certified in these other trades as well. Industrial mechanics (millwrights) may work in specialized trade areas such as fluid analysis, vibration analysis and laser alignment. With experience, they may advance to other positions such as mentor, supervisor, planner, superintendent or trainer.

PROGRAM OF STUDY:

TMSA0115	Section 1 Legislation, Communication and Apprenticeship Development
TMML0125	Section 2 Tools and Fasteners
TMTF0135	Section 3 Measurements, Drawings and Layouts
TMMA0145	Section 4 Machining
TMIA0155	Section 5 Machine Installation and Alignment
WPCM0100	Workplace Communication
PISC0100	Industrial Safety Certification
PMRC0100	Employment Practicum

TRANSFERABILITY: Students must achieve a minimum of 65% cumulative weighted average for the program's courses with no course below 50%, and a final exam mark 65% or higher in order to achieve successful completion for AIT's standards. Please note: If you choose to challenge your AIT exam you must receive a 70% passing mark on the exam to successfully pass that period of training. Upon successful completion of all core courses, Pre-Employment students are eligible to write the 1st period apprentice exam with AIT.

PROGRAM DELIVERY: Traditional classroom setting with shop and lab demonstrations.

ADMISSION REQUIREMENTS: Minimum Requirement: English 20-2, Math 20-3, Science 10 Or AIT Entrance Exam, or, or a passing mark in the Canadian Adult Education Certificate (CAEC)

Recommended Path: Alberta High School Diploma with:

- English 30-2
- Math 30-3
- Physics 30 or Chemistry 30 or Biology 30 or Science 30

Pre-Employment students are NOT required to be registered with Apprenticeship and Industry Training (AIT).

COST ESTIMATES: Note: All fees are subject to change.

Tuition	\$3,625.00
Materials	\$ 690.00
Technology Fee	\$ 348.00
Textbooks (mandatory-includes GST)	\$ 416.19
Student Association Fee	\$ 391.50
TOTAL ESTIMATED COSTS:	\$5,470.69

ADDITIONAL FEES: Students are responsible for registering and paying the fee to challenge the first-year trades exam. The estimated cost for the Theory Exam is \$150.00

OFFERING DATES: High Prairie: February 9 – May 29, 2026

APPLICATION PROCESS:

- **APPLICATION:** Complete and submit the Northern Lakes College application available online on the college website at www.northernlakescollege.ca
- **APPRENTICESHIP EXAM:** Applicants needing to meet admission requirements must call the Alberta Apprenticeship & Industry Training office nearest to their location to make arrangements for writing the Apprenticeship Entrance Exam. 1-800-248-4823.
- **ACCEPTANCE:** Applicants who meet the requirements will be accepted and offered a space in the next available offering of the program. In some cases, the spaces at a specific location may be full and accepted applicants will be placed on a waitlist. These applicants will be accepted in the order of "first qualified, first served." Applicants will receive a letter informing them of their acceptance status.
- **FUNDING:** Applicants are encouraged to check on funding options early (minimum of 2 months prior to program start date). AIT office or NLC counsellors can assist with identifying funding options and applying for sponsorship of fees and living costs.
- **REGISTRATION:** Before the start date of the program, accepted applicants will receive information about registration dates, times, locations and other information to assist them by email – please ensure we have an accurate email address for you.

CONTACT INFORMATION:

For any assistance, questions or concerns, the following college staff are available toll-free:

Program Administrator: Trades and Resource Technology 1-780-843-8365

email: tradesaccount@northernlakescollege.ca

Questions about program content and employment opportunities for the program.

Other Inquires: Admissions Services 1-866-652-3456

email: admissions@northernlakescollege.ca

General inquiries about College services & programs, student housing, library, facilities