

Full Time 2025 - 2026

BRIEF DESCRIPTION: Heavy equipment technicians maintain, repair, and overhaul heavy vehicles and industrial equipment. Heavy equipment technicians are employed by specialized repair shops and organizations that own or lease heavy equipment used in the construction, mining, forestry, materials handling, landscaping, land clearing, agricultural and transportation industries. Further Educational Training Opportunities: Heavy Equipment Technician Apprenticeship Program: First Period, Second Period, Third Period, and Fourth Period. The term of apprenticeship for a Heavy Equipment Technician is 4 years. This includes a minimum of 1500 hours of on-the-job training as an apprentice, and 16 weeks of technical training each year. This trade participates in two Red Seal Programs: heavy equipment technician – heavy duty equipment mechanic (off-road) and heavy equipment technician - truck and transport mechanic. See those trade profiles for detailed information. www.tradesecrets.alberta.ca/trades-occupations.com

PROGRAM OF STUDY:

HESA0115	Section 1: Standard & Specific Workplace Safety
HESW0125	Section 2: Suspensions, Wheels and Systems
HEHB0135	Section 3: Hydraulics 1 and Brake Systems
HEEE0145	Section 4: Electrical 1 and Electronics 1
HEAB0155	Section 5: Air Brakes
HPRC0100	Employment Practicum
PISC0100	Industrial Safety Certification
WPCM0100	Workplace Communication
HEPL0100	Lab/ Practical

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.

PROGRAM DELIVERY: Traditional classroom setting with shop and lab demonstrations. Work-integrated learning, Workplace Communications and Industrial Safety Certifications are new components of this program.

ADMISSION REQUIREMENTS:

Minimum Requirements: English 20-2, Math 20-3, Science 10; or a passing mark on Alberta Industry and Training's Entrance Exam or a passing mark in the Canadian Adult Education Certificate (CAEC).

Recommended Path: Alberta High School Diploma with:

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

NOTE: Pre-Employment students are NOT required to be registered with Apprenticeship and Industry Training

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

Tuition	\$5,280.00
Materials	\$ 720.00
Technology Fee	\$ 360.00
Textbooks (mandatory-includes GST)	\$ 328.25
Student Association Fee	\$ 405.00
TOTAL ESTIMATED COSTS:	\$7,093.25

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:

Slave Lake: February 9, 2026 – May 29, 2026

Lacrete: January 5, 2026 – April 24, 2026

High Prairie: September 2, 2025 – December 19, 2025

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

Other Inquiries:

Admissions Services 1-866-652-3456

email: admissions@northernlakescollege.ca

Including general inquiries about College services & programs, student housing, library,

facilities