

The
Inuvialuit
Energy
Security
Project

OPPORTUNITIES GUIDE

FEBRUARY 2023



Introduction

The purpose of this guide is to provide Inuvialuit beneficiaries and businesses, as well as other interested parties, the opportunity to understand the types of employment and contracting opportunities associated with the development of the Inuvialuit Energy Security Project (IESP). The guide provides details related to employment opportunities during both the construction and long-term operations phases of the project. Overall timing and scheduling of the various activities and roles may change due to regulatory approvals and facility equipment availability, but the general ideas presented in the guide are expected to remain valid.

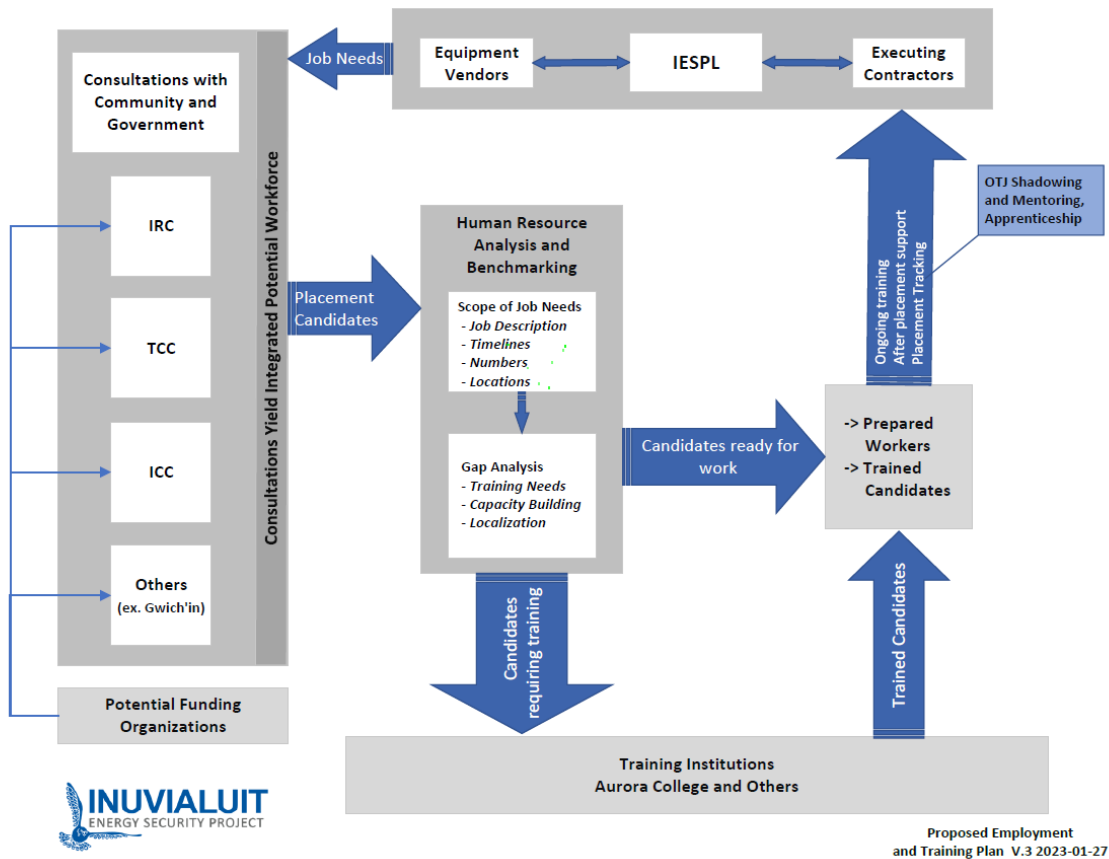
Project Overview

The IESP will be constructed in three phases – Early Site Works (ESW), Well Workover (WW), and the Energy Facility (EF). The ESW phase involves the construction of a 4-kilometer access road, the placement of a 33.5-meter-long bridge to cross over a creek, and the foundation preparation for the Energy Facility. The WW phase involves completion of the currently suspended M-18 well so it can be placed into production. The EF phase involves construction of the EF modules, shipment of the EF modules and equipment to the IESP site, and the installation and commissioning of the EF modules and equipment.

Once commissioned, the IESP will produce three products for sale in the Beaufort-Delta region: natural gas; propane; and synthetic diesel. The three products will be trucked from the IESP Energy Facility daily to Tuktoyaktuk, Inuvik, and other communities in the region. Based on the gas reserves of the M-18 well, the IESP will have the ability to operate for several generations.

Employment and Training Plan

IESP LTD. will use the following Employment and Training Plan as a guide to identify the project job requirements and potential candidates, and for the onboarding, educating, and training of operating staff or contractors.



This guide provides an overview of the IESP job requirements for the operating and construction phases of the project. Based on the role, post secondary education and work experience are generally required, and IESP LTD. will work with interested candidates and/or businesses to detail out a career plan to achieve the required employment certifications.

All IESP LTD. staff and contractors will need training on the company's Integrated Management System (IMS), and the various policies, plans, and procedures

applicable to their role. For example, all staff and contractors working on the IESP will be provided training on the IESP LTD. Health and Safety Plan, the Environmental Protection Plans, and the Emergency Management Plan. Community members and first responders will also receive training on specific components of the IMS and plans.

Operations Staff

The IESP will be operated daily (24/7/365), by a core team of approximately 20 staff. Depending on the shift rotation desired by staff and the skill/experience level of the team, this number will likely fluctuate during the operating lifetime of the IESP. Below is a list of the key roles identified and the hiring time frame. All timing is contingent on final regulatory approvals and overall approval of the IESP by the Inuvialuit Regional Corporation Board.

- Safety/ERP Technician (Q2 2023)
- Environmental Technician (Q2 2023)
- Wildlife/Security Monitor x2 (Q3 2023)
- Engineering – Operations (Q3 2023)
- Operations Lead (Q3 2023)
- Maintenance Lead (Q3 2023)
- Safety/ERP Lead (2024)
- Environmental Lead (2024)
- Plant Operators x6 (2024)
- Maintenance Staff x4 (2024)

To supplement this opportunities guide, job specific cheat sheets are available from IESP LTD. providing more detail on each role and the educational requirements.

Construction and Operating Contracting

During the approximate 2 years of construction of the IESP, there will be positions and contractor opportunities to support IESP LTD., the equipment vendors, and major contractors. The following list provides examples of the opportunities and approximate timing of hiring.

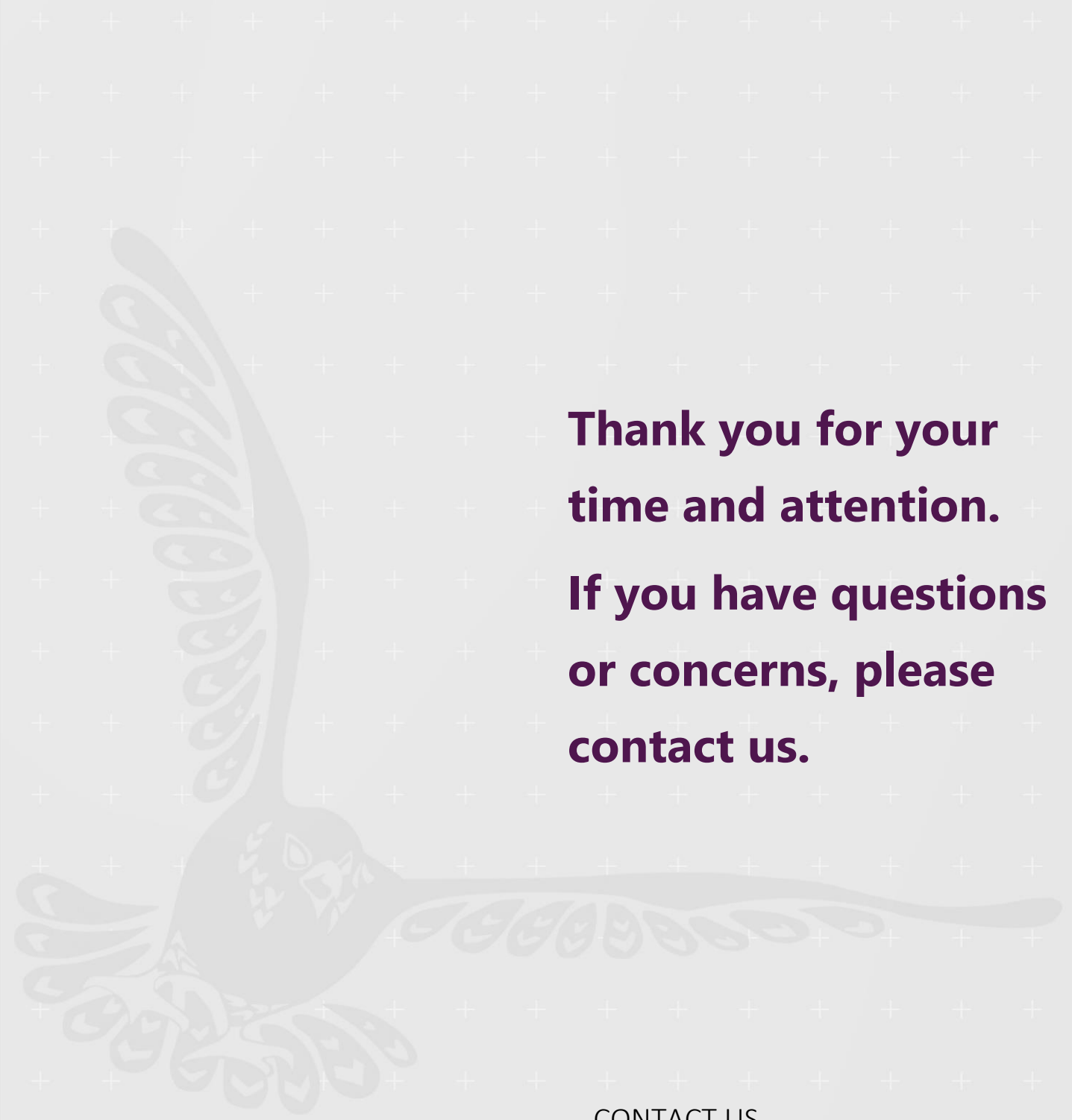
- Project Manager/Engineer (Q3 2023)
- ESW Construction/HSEQ Supervisor x2 (Q3 2023)
- ESW Construction/HSEQ Assistant (Q3 2023)
- ESW 3rd Party Services (Q3 2023)
 - o Survey
 - o Quality control
 - o Piling
- WW Wellsite Supervisor (2024)
- WW 3rd Party Services (2024)
 - o Onsite medical
 - o Wellsite service companies' support
- EF Construction Supervisor x2 (2024-25)
- EF 3rd Party Services (2024-25)
 - o Prime contractor and equipment vendor support

For the long-term operations of the IESP, there will be regular contracting opportunities for support services surrounding the core operating team.

Examples of the types of contracts include:

- Transportation of IESP products
- Logistics for personnel and maintenance equipment
- Camp and catering services
- Garbage and sewage services
- Road maintenance
- Wildlife and environmental monitoring

For further details on any of the above-mentioned opportunities, please contact IESP LTD.



**Thank you for your
time and attention.**

**If you have questions
or concerns, please
contact us.**

CONTACT US

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Employment / Contractor Opportunity

OCCUPATIONAL HEALTH & SAFETY (OHS) LEAD

JOB DESCRIPTION

The IESP OHS Lead reports directly to Senior Management and indirectly to the On-Site Supervisor and works with employees, contractors, management and interested stakeholders to ensure implementation and improvement of the IESPL Health and Safety program, plans and procedures. Compliance requirements include the NWT Occupational Health and Safety Regulations, NWT Workers Safety and Compensation Commission (WSCC), Incident Command System to meet Canada Energy Regulator requirements, Transportation of Dangerous Goods Regulations, and other regulations and best practices for a secure, safe, and healthy workplace.

This future opportunity could be for you if you...

- Can interpret and implement legislation and policies and procedures
- Have experience developing and working with others to implement OHS training programs and workshops
- Possess experience developing and implementing OHS work procedures in the field
- Have experience preparing incident reports, root cause analysis and providing recommendations for improvement

REQUIRED EDUCATION & QUALIFICATIONS

- Good communication and leadership skills
- Canadian Registered Safety Professional (CRSP) or working towards CRSP
- Experience with Emergency Services and/or Incident Command System (ICS)
- Minimum 5 years Occupational Health and Safety (OHS) experience

HOW TO GET QUALIFIED / CERTIFIED

Program Name	Occupational Health and Safety Diploma	Occupational Health and Safety Diploma	National Construction Safety Officer	Certificate or Diploma in OHS
Institution	SAIT, Calgary, AB	Herzing College, Winnipeg	Yukon Northern Safety Network	University of New Brunswick
Program Length	2 years	1 year online and 8-week internship	Online plus 3 years practical experience	Online self-paced (11 courses)
Entry Requirements	High School Diploma with 70% average	High school diploma or mature student	High school diploma or mature student	None

NEED SUPPORT GETTING READY?

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Employment / Contractor Opportunity

OCCUPATIONAL HEALTH & SAFETY (OHS) ASSISTANT

JOB DESCRIPTION

The OHS Assistant works under the supervision and mentorship of the OHS Lead. The OHS Assistant assists the OHS Lead in working with employees, contractors, management, and stakeholders to ensure implementation and improvement of the IESPL Health and Safety program, plans and procedures. The OHS Assistant will monitor and confirm compliance requirements are being met for regulatory OHS, emergency response, transportation, and best practices to ensure a secure, safe, and healthy workplace.

This future opportunity could be for you if you...

- Have a strong interest in health and safety, security and/or helping people
- Can follow OHS procedures, fill out forms, and/or have experience with computers
- Have a great attitude towards learning
- Are good at working with others to find solutions

REQUIRED EDUCATION & QUALIFICATIONS

- Grade 12 or equivalent or relevant work/life experience
- Occupational Health and Safety (OHS) experience is an asset
- Experience in emergency services (fire, medical, security) is an asset
- Willing to work towards Certification as a Safety Technician or Safety Officer (NCSO)

IESPL WILL HELP YOU TO GROW YOUR CAREER! OPTIONS INCLUDE:

Program Name	NWT WSCC Youth Safety Leadership	National Construction Safety Officer (NCSO)	Occupational Health and Safety Diploma	Certificate or Diploma in OHS
Institution	WSCC, online and on the job	Yukon Northern Safety Network	SAIT, Calgary, AB	University of New Brunswick
Program Length	Variable	Online plus 3 years practical experience	2 years	Online self-paced (11 courses)
Entry Requirements	For youth ages 14-24	High school diploma or mature student	High School Diploma with 70% average	None

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Employment / Contractor Opportunity

ENVIRONMENT LEAD

JOB DESCRIPTION

The IESP Environmental Lead reports directly to Senior Management and indirectly to the On-Site Supervisor and works with field employees, contractors, and interested stakeholders to ensure implementation and improvement of the IESP Environmental Management Plans. The Lead ensures the IESP is compliant with regulations and operates as a good steward of the environment. The position will be involved in assessment and monitoring, emergency preparedness and response using Incident Command System, and developing environmental best practices.

This future opportunity could be for you if you...

- Can interpret and explain legislation, policies, and procedures
- Have experience developing and working with others to implement training programs and workshops
- Possess experience developing and implementing environmental sampling and monitoring procedures
- Have experience preparing reports, providing recommendations, and collaborating on problem solving

REQUIRED EDUCATION & QUALIFICATIONS

- Environmental work experience and/or experience on the land
- Engineering or Environmental related certificate/diploma or equivalent
- Experience communicating scientific or engineering information
- Emergency Response experience is an asset

HOW TO GET QUALIFIED / CERTIFIED

Program Name	Environmental Monitoring Certificate	Environmental Technology Diploma	Environment and Natural Resources Technology
Institution	Yukon University, Whitehorse, YT	SAIT, Calgary, AB	Aurora College, Thebacha Campus, Fort Smith, NT
Program Length	2 years	2 years	2 years
Entry Requirements	High School Diploma	High School Diploma with Level 30 Courses or equivalent	High School Diploma or equivalent or mature student (>20 years old)

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Employment / Contractor Opportunity

ENVIRONMENTAL MONITOR/TECHNICIAN

JOB DESCRIPTION

The Environmental Monitor/Technician (EM/T) works under the supervision and mentorship of the Environmental Lead. The EM/T assists the Environmental Lead to provide employees, contractors, management and stakeholders advice and support required to meet the various IESP Environmental Management Plans including wildlife, archaeology, permafrost, erosion control, waste management, fish and water, air, noise, and weather monitoring. The EM/T will support the Environmental Lead in working with traditional knowledge holders and co-management bodies such as Inuvialuit Game Council, Tuktoyaktuk Hunters and Trappers, WMAC, as well as ILA and GNWT-ENR to ensure the IESP meets the highest standards of environmental protection.

This future opportunity could be for you if you...

- Have a strong interest in the environment and environmental protection
- Are able to follow field procedures, fill out forms, or have experience with computers
- Enjoy working outside in all kinds of weather
- Have a great attitude towards learning
- Are good at cooperating with others to find solutions

REQUIRED EDUCATION & QUALIFICATIONS

- Grade 12 or equivalent or relevant work/life experience
- Experience on the land
- Willing to work towards Certification as an Environmental Monitor or Technician

IESPL WILL HELP YOU GET QUALIFIED / CERTIFIED

Possible Programs	Environment and Natural Resources Technology	Environmental Monitoring Certificate	Environmental Technology Diploma
Institution	Aurora College, Thebacha Campus, Fort Smith, NT	Yukon University, Whitehorse, YT	SAIT, Calgary, AB
Program Length	2 years	2 years	2 years
Entry Requirements	High School Diploma or equivalent or mature student (>20 years old)	High School Diploma	High School Diploma with Level 30 Courses or equivalent

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Employment / Contractor Opportunity

OPERATIONS ENGINEER

JOB DESCRIPTION

This position is an integral part of the operations team, supporting the IESP Energy Facility operators and maintenance team to optimize and ensure facility/equipment reliability. Energy Facility upgrades, turnarounds, pressure equipment management, and change management will be key aspects of the role.

This future opportunity could be for you if you...

- Possesses a solid understanding of Process and Instrumentation Drawings and plant control systems
- Have experience preparing reports and providing recommendations
- Have experience with gas processing facilities and refrigeration system operations
- Are able to apply science into field practice

REQUIRED EDUCATION & QUALIFICATIONS

- Undergraduate degree in engineering
- Professional designation (P. Eng) as a registered engineer in NWT or equivalent
- Gas plant operations experience

HOW TO GET QUALIFIED / CERTIFIED

Program Name	Chemical, Mechanical, or Electrical Engineering Degree	Chemical, Mechanical, or Electrical Engineering Degree
Institution	U of C, Calgary, AB	U of A, Edmonton, AB
Program Length	4 years (5 years Co-Op)	4 years (5 years Co-Op)
Entry Requirements	High School Diploma with Level 30 Classes or equivalent	High School Diploma with Level 30 Classes or equivalent

Eligible for Professional Engineer status with NAPEG and/or APEGA.

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Employment / Contractor Opportunity

ENERGY FACILITY OPERATOR

JOB DESCRIPTION

The operator is responsible for the daily operation of the IESP Energy Facility which includes gas processing, gas to liquids (GTL), utilities, and storage management of the products produced at the facility.

This future opportunity could be for you if you...

- Have a solid understanding and knowledge of gas compression operations
- Are proficient in refrigeration system operations
- Possesses a solid understanding of Process and Instrumentation Drawings and plant control systems
- Have experience with gas processing facility operations
- Can operate light equipment (forklift/skid steer)
- Are mechanically inclined

REQUIRED EDUCATION & QUALIFICATIONS

- High school diploma
- Class 3 Power Engineer
- Gas plant operations and fractional distillation experience
- Journeyman trades considered an asset (ex. Instrumentation Technician, Electrician, Millwright)

HOW TO GET QUALIFIED / CERTIFIED

NAIT

Edmonton, Alberta

Website: www.nait.ca

Program Name	Power Engineering Technology	Energy Process Operator
Program Length	2 years	4 months
Entry Requirements	High School Diploma with Level 30 Classes or equivalent	Continuing Education

SAIT

Calgary, Alberta

Website: www.sait.ca

Program Name	Power Engineering Technology	Power and Process Operations
Program Length	2 years	1 year
Entry Requirements	High School Diploma with Level 30 Classes or equivalent	High School Diploma with Level 30 Classes or equivalent

IESPL ultimately requires all plant operators to have a Class 3 power engineering certification. Power Engineering Technology at both NAIT and SAIT offer the education for the written portion of obtaining both Class 3 and Class 4 power engineering certifications. The final requirement to obtaining a fully certified Class 3 comes from work experience on specific power/steam equipment.

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Employment / Contractor Opportunity

ENERGY FACILITY MAINTENANCE

JOB DESCRIPTION

Responsible for keeping the IESP Energy Facility and associated equipment operational. Energy Facility Maintenance is a key member of the operating team and will be required to repair and carry out preventative maintenance on facility equipment while maintaining the highest level of safety and ensuring all equipment performs at maximum predictable reliability.

This future opportunity could be for you if you...

- Can read and understand electrical and Process and Instrumentation Drawings
- Have knowledge in computer-based maintenance systems
- Have previous configuration and programming experience
- Possess troubleshooting skills for both instrumentation and control systems
- Comfortable working remotely for long periods

REQUIRED EDUCATION & QUALIFICATIONS

- I&E trades (Instrumentation & Electrician Technician)
- Mechanical trades (Millwright or Mechanic)
- Certified Red Seal and/or apprentices (trade school)

HOW TO GET QUALIFIED / CERTIFIED

NAIT

Edmonton, Alberta

Website: www.nait.ca

Program Name	Instrumentation and Control Technician	Electrician	Millwright (Industrial Mechanic)
Program Length	4 years	4 years	4 years
Entry Requirements	Must be a registered apprentice with GNWT ECE	Must be a registered apprentice with GNWT ECE	Must be a registered apprentice with GNWT ECE

SAIT

Calgary, Alberta

Website: www.sait.ca

Program Name	Instrumentation and Control Technician	Electrician	Industrial Mechanic (Millwright)
Program Length	4 years	4 years	4 years
Entry Requirements	Must be a registered apprentice with GNWT ECE	Must be a registered apprentice with GNWT ECE	Must be a registered apprentice with GNWT ECE

Aurora College

Fort Smith, NT

Website: www.auroracollege.nt.ca

Program Name	Apprenticeship Electrician	Apprenticeship Heavy Equipment Technician
Program Length	Provides 3 of the 4 levels (4 years total program)	Provides 2 of the 4 levels (4 years total program)
Entry Requirements	Need a Journeyperson certified mentor/employer Education assessment test Must be registered as an apprentice with GNWT ECE	Need a Journeyperson certified mentor/employer Education assessment test Must be registered as an apprentice with GNWT ECE

Yukon University in Whitehorse, YT, has a similar offering to Aurora College for beginning Apprenticeship Programs for Electrician, Millwright, and Heavy Equipment Technician. Both Aurora College and Yukon University, require final years be completed at NAIT, SAIT, or an equivalent trade school.

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