

Work With Us:

Ksi Lisims LNG Training and Employment Guide 2024



**KSI LISIMS
LNG**

A Message From the Ksi Lisims LNG Team:

A central purpose of the Ksi Lisims LNG project is to bring global benefits to people across northwestern B.C., with a focus on Indigenous peoples closest to the site and infrastructure.

What will these “benefits” mean for you? We strongly believe that employment benefits are opportunities to improve your, your family’s, and your community’s quality of life. The best opportunities can be life-changing, like getting trained for a new career or starting a new business. Like a ripple on a pond, it’s our hope and intent that Ksi Lisims LNG brings long-term positive change for residents, businesses, and communities across the region.

Collaborating with the Nisga’a Nation, participating Indigenous nations, and local experts, Ksi Lisims LNG is developing a Workforce Strategy that builds on the successes and lessons learned from other major industrial projects in the region. The Strategy will help us, and you, understand what kinds of jobs will be needed, when they’ll be needed, and the necessary qualifications and training that will help you get ready.

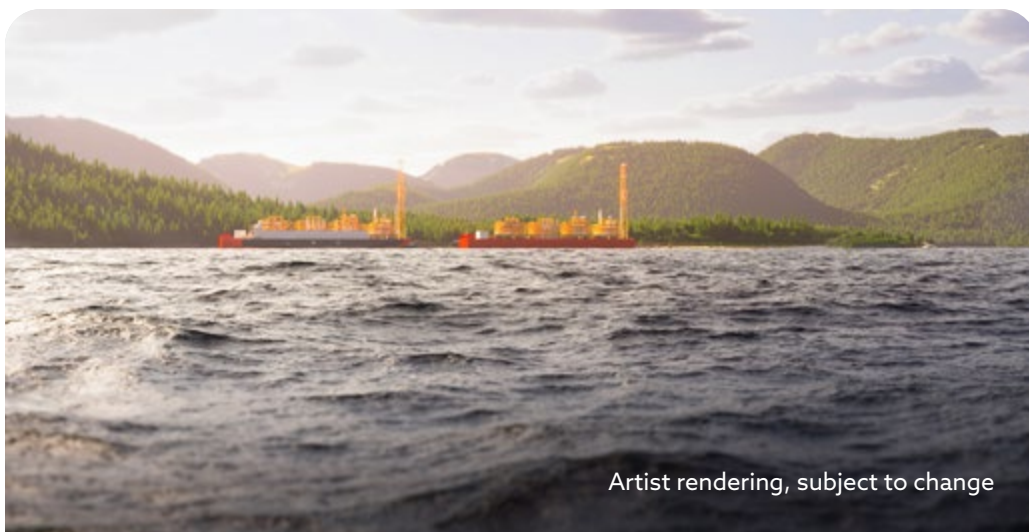
This 2024 guide is a first step in getting you interested and informed so you can be ready to qualify for jobs coming (quickly!) down the road. We will have much more detail to add, including the full Workforce Strategy, so we encourage you to keep an eye on our website for updates.

It is said that luck is where preparation meets opportunity. We hope this guide helps you understand those opportunities and how to prepare.

Important Note

This information on employment opportunities with Ksi Lisims LNG during its construction and operations phases has been developed by Ksi Lisims LNG to assist Indigenous peoples, local non-Indigenous residents, service providers and other stakeholders meet Project and other regional training and development needs, and not to give a precise indication of actual demand. This document was developed from a preliminary schedule, and actual hiring (including classifications and more specific numbers) will be the responsibility of the appropriate engineering, procurement and construction contractor and the site subcontractors.

It is intended that providing this information will enable jobseekers and education, training and employment service providers to understand, make choices, and prepare to pursue these opportunities as and after we get closer to the potential start of construction and eventual operations of the facility. Pursuing this preparation will enable jobseekers to become qualified and eligible to apply for these positions, but it will not guarantee a job. Jobseekers will need to go through and be successful in an application and selection and hiring process.



Artist rendering, subject to change

The Project

Ksi Lisims LNG is a proposed liquefied natural gas facility and export terminal located at Wil Milit on Pearse Island, 15km by boat from Gingolx. Construction start is targeted for mid-2025, operations will begin in early 2029, and the facility will operate for at least 30 years. By running on BC Hydro grid power, Ksi Lisims LNG will be the lowest emissions-intensive export facility in the world and will be net-zero ready by 2030.



Use your smartphone camera to open a website link and find out more about the project.

www.ksilisimslng.com

Direct Jobs (Estimated)

Operation (annual):

- › During operation, the permanent workforce is estimated to be between 150–250 at the Site and 50–100 at other locations within and outside of the region.

Construction:

- › Total jobs: An average of 450 at site, rising to 800 at peak construction.

Indirect jobs (Estimated)

An indirect job is a job that exists to produce the goods and services needed by the workers with direct jobs. This could be a support service, like cleaning, transportation, food preparation, or supplies. An induced job is the result of direct and indirect employees spending money locally, like employment at a bakery or hotel.

During construction, the project will result in:

- › 2,495–2,725 full-time indirect jobs
- › 400–455 full-time induced jobs

During operations, the project will result in:

- › 280–785 full-time indirect jobs
- › 245–545 full-time, induced jobs

Roadmap to Employment



Life and Work at Ksi Lisims LNG

Construction Phase

Due to the remoteness of the Project location, construction workers will be housed in a floatel at the site. It will have wi-fi, state of the art dining, recreation, entertainment, and health facilities.

The Project's construction workforce will be hired by the construction contractor(s) and will work rotational shifts, mostly two weeks on, two weeks off.

The construction process will be managed in a way to ensure stability and continuity of work as certain trades finish a project segment and different trades come in to start the next segment.

Note

- ▶ The Project will work with all prime and subcontractors to ensure appropriate policies are in place to respect cultural practices and ensure reasonable accommodation is in place for important community and family events.

Operations Phase

There will be permanent, onshore housing for our operations workers. This accommodation will have space for up to 300 workers at full capacity. Housing will have modern comforts, amenities, and conveniences, and is intended to be a place where employees enjoy spending time.

As the Project is designed to operate 24 hours a day, 365 days a year, some personnel will be required to work shifts.

A large percentage of direct operations positions will be jobs which require a minimum of trades training (apprenticeships) and/or a two- or four-year technical diploma or degree program.

Many jobs at our LNG terminal will be similar (to varying degrees) to other energy processing facility roles and may be transferable.

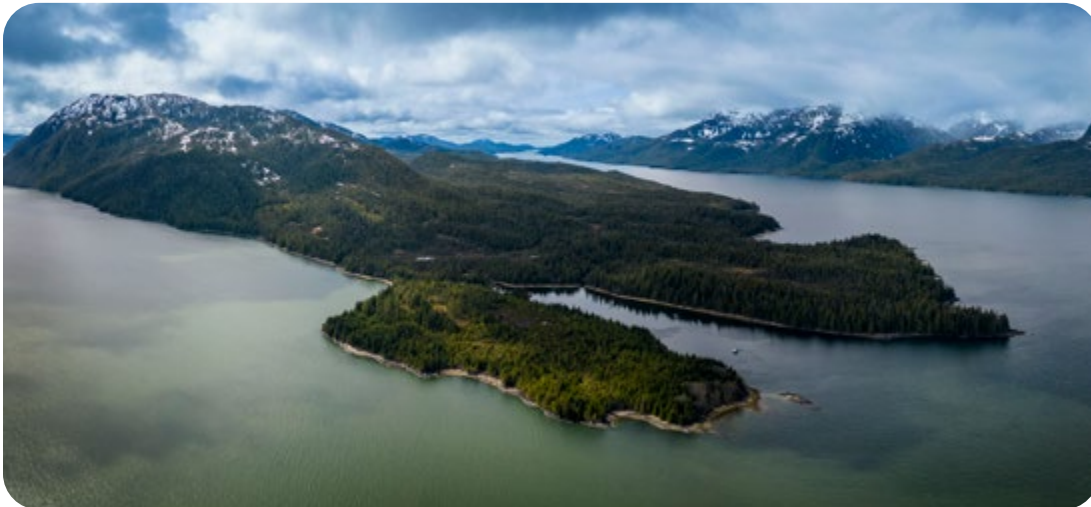
Skilled trades workers will also be required for ongoing maintenance of the facility and there is potential for workers to transfer from shorter-term construction roles into ongoing jobs in maintenance on operations. For example, some engineering, electrician, instrumentation and health and safety roles will be needed in both phases.

Indirect jobs will also be available in transportation, goods and services and other areas that may have opportunities for positions on the mainland.

Travel to Site

It is anticipated that many personnel will originate from B.C.'s northwest region. Where personnel originate from Prince Rupert, they may either be transported to Terrace for travel to site through Gingolx or may go directly to site from Prince Rupert by marine vessel.

The primary route for transport of goods and personnel originating in Terrace is anticipated to be on Highway 113/Nisga'a Highway to Gingolx and via marine vessel from Gingolx to Site. This route is preferred because it is considered the safest and most economical due to the shorter and more protected marine transport route (approximately 0.5 hours versus 3 hours).



Important Note

High school completion or an equivalency will be required to apply for positions with the Project during construction and operations.

Appropriate health and safety training certification, and cultural awareness training will be mandatory.

An alcohol and drug policy will be established and in effect.

List of jobs and required training

For more information on qualifications, training, wages and programs, please visit:

Indigenous Delivery & Funding
facebook.com/NEST360?mibextid+ZbWKL

Apprenticeships
skilledtradesbc.ca/find-your-trade

All Trades Training Programs
tradetrainingbc.ca

All Post-Secondary Programs
educationplannerbc.ca

Kitselas Five Tier (K5T)
k5t.ca

Wages and Qualifications
jobbank.gc.ca/wagereport/location/bc

Nisga'a Employment, Skills and Training
nisgaaworks.ca

Wilp Wilxo'oskwhl Nisga'a Institute
wwni.bc.ca

Top 20 Construction Phase Positions		
Occupation (in order of # positions required)	Description	Qualifications and Sources of Training Note - Qualifications and sources of training may change over time. Additional Indigenous and non-Indigenous service providers may deliver similar courses or programs for some of these occupational categories
1 Construction trades helpers and labourers	Assist skilled tradespeople in various construction and allied trades.	1. High school graduation 2. Partial or total completion of Construction Crafts Worker apprenticeship. (This apprentice program includes Levels 1 and 2 of progressive technical training, with each Level taking 4 weeks (120 hours) to complete. In addition, apprentices are required to accumulate 4,000 hours of work-based training.) 3. Applying to Challenge Trade: 6,000 work-based hours completing 70% of the job tasks Coast Mountain College (Terrace) offers this on a contract basis (not tuition) College of New Caledonia (Prince George) - See Construction Craft Worker apprenticeship

Occupation (in order of # positions required)	Description	Qualifications and Sources of Training Note - Qualifications and sources of training may change over time. Additional Indigenous and non-Indigenous service providers may deliver similar courses or programs for some of these occupational categories
2 Construction managers	Plan, organize, direct, control and evaluate the activities of an industrial construction company and project under the direction of a general manager or other senior manager.	1. A university degree in civil engineering or a college diploma in construction technology is usually required. 2. A master's degree in project management may be required. 3. Several years of experience in the construction industry, including experience as a construction supervisor or field superintendent, are usually required. 4. Extensive experience in the construction industry may substitute for post-secondary education requirements. University of Northern BC (Prince George) - Bachelor of Applied Science Degree, Civil Engineering Coast Mountain College (Terrace) - Business Management Diploma
3 Heavy equipment operators (except crane)	Operate heavy equipment used in construction and maintenance, including backhoes, bulldozers, loaders and graders to excavate, move, load and grade earth, rock, gravel, or other materials during construction and related activities.	1. High school completion. 2. Completion of apprenticeship program or courses combined with on-the-job training. College of New Caledonia (Prince George) - HEO Apprenticeship O'Brien Training, Prince George

Occupation (in order of # positions required)	Description	Qualifications and Sources of Training Note - Qualifications and sources of training may change over time. Additional Indigenous and non-Indigenous service providers may deliver similar courses or programs for some of these occupational categories
4 Carpenters	Construct, install, maintain, and repair structures and components of structures made of wood, wood substitutes, lightweight steel and other materials.	1. High school completion. 2. Trades certification. 3. Apprenticeship completion / enrollment. 4. Safety certifications. Coast Mountain College (Terrace and regional locations) College of New Caledonia (Prince George) - Apprenticeship
5 Steamfitters, pipefitters and sprinkler system installer	Lay out, assemble, fabricate, maintain, troubleshoot and repair piping systems carrying water, steam chemicals and fuel in heating, cooling, lubricated and other process piping systems. Sprinkler system installers fabricate, install, test, maintain and repair water, foam, carbon dioxide and dry chemical sprinkler systems in buildings for fire protection purposes.	1. Completion of a 4-year (7-8 weeks per year) apprenticeship program including 6,300 hours of work-based training. Could start with completion of a Steamfitter/ Pipefitter Foundation Program. 2. Applying to Challenge Trade: 9,450 work-based hours completing 70% of the job tasks. UA Piping Industry College of BC, Terrace College of New Caledonia (Prince George)
6 Transport truck drivers	Drive straight trucks or tractor-trailers to transport freight. Long-haul truck drivers operate heavy trucks over urban, interurban, provincial and international routes, while short-haul and local transport truck drivers operate over urban and short interurban routes.	1. Completion of a recognized commercial driver training program, Class 1 license including completion of mandatory entry-level training (MELT) course. BC Transport Training, Fort St. John GoTeam Professional Training Ltd., Prince George

Occupation (in order of # positions required)	Description	Qualifications and Sources of Training Note - Qualifications and sources of training may change over time. Additional Indigenous and non-Indigenous service providers may deliver similar courses or programs for some of these occupational categories
7 Welders and related machine operators	Operate equipment to weld metals. Work with tools such as blow torches and hand-welding and flame-cutting equipment to fuse metal parts together or fill holes, indentations or seams of fabricated metal products – a vital function when it comes to oil and gas-related construction, operations or maintenance projects. Use advanced digital tools for high precision work.	1. High school completion. 2. Trade certification, specialized training. 3. Safety certifications. Coast Mountain College (Terrace) College of New Caledonia, Prince George (Welder Foundation, Welder A-B Modular and Welder Apprentice) UA Piping Industry College of BC, Terrace
8 Industrial electricians and electricians	Install, maintain, test, troubleshoot, and repair industrial electrical devices and equipment in and associated with the facility. Plan and lay out electrical systems based on technical specifications and drawings and interact with equipment operators to find faulty equipment issues or with clients to plan electrical layout systems.	1. Completion of 4-year (10 weeks per year) Apprenticeship Program including 6,000 hours of work-based training. 2. Coast Mountain College (Terrace) – Common Core to Level 3 (Level 4 is Construction Electrician) College of New Caledonia (Prince George) - Apprenticeship
9 Concrete finishers	Smooth and finish freshly poured concrete, apply curing or surface treatments. Install, maintain, and restore various masonry structures such as foundations, floors, ceilings, sidewalks, and roads.	1. High school completion. 2. On-the-job training.

Occupation (in order of # positions required)	Description	Qualifications and Sources of Training Note - Qualifications and sources of training may change over time. Additional Indigenous and non-Indigenous service providers may deliver similar courses or programs for some of these occupational categories
10 Electrical powerline & cable workers	Electrical power line and cable workers construct, maintain and repair overhead and underground electrical power transmission and distribution systems. They are employed by electric power generation, transmission and distribution companies, electrical contractors and public utility commissions. Apprentices are also included in this occupational category.	1. Completion of 4-year (4 weeks per year) Apprenticeship Program including 6,720 hours of work-based training. University of the Fraser Valley (Abbotsford) – Powerline Technician Pre-Apprenticeship
11 Ironworkers (structural) including scaffolders	Hoist, bolt, fasten, cut, bend, weld and raise components for giant storage tanks, towers and other LNG facility structures. Reinforcing ironworker reinforces the structural integrity of a building or plant, and cuts, bends, lays out, installs and welds rebar and wire fabric to increase the tension of structures.	1. Completion of a 2-year (7 weeks per year) apprenticeship program including 3,180 hours of work-based training or 2. Minimally completion of a 23-week Ironworker Foundation Program. College of New Caledonia (Prince George) – Ironworker Generalist Foundation and Apprenticeship; Ironworker Reinforcing Apprenticeship British Columbia Institute of Technology, Burnaby

Occupation (in order of # positions required)	Description	Qualifications and Sources of Training Note - Qualifications and sources of training may change over time. Additional Indigenous and non-Indigenous service providers may deliver similar courses or programs for some of these occupational categories
12 Contractors and supervisors, trades	Supervise various construction trades including mechanical, electrical, motive, and other trades groups	1. Post-secondary certificate or diploma 2. Several years' experience 3. Preferably a Journeyperson/Red Seal in a construction trade. Coast Mountain College (Terrace) - e.g., Business Diploma program College of New Caledonia (Prince George) - Business Management Certificate and Diploma
13 Crane operators	Operate cranes or draglines to lift, move, position or place building walls and structures, machinery, equipment, and other large objects. Most common are tower cranes, mobile cranes, and boom cranes.	1. High school completion. 2. Crane operator certification which can be obtained through a 3-year apprenticeship program with 5,400 work-based hours including 1,800 hours of seat time. See https://bccranesafety.ca/get-certified/ Operating Engineers, Maple Ridge Big Foot Crane Co., Abbotsford Matterhorn Crane & Rigging, Prince George Local/regional crane companies may offer crane operator apprenticeship training
14 Industrial Mechanics (Millwrights)	Install, maintain, troubleshoot, overhaul, and repair stationary industrial machinery and mechanical equipment in and associated with the facility.	1. Completion of Industrial Mechanic 4-year (7 weeks per year) Apprenticeship Program. Also, required to accumulate 6,360 hours of work-based training. Coast Mountain College (Houston, Kitimat or Prince Rupert - Foundation) College of New Caledonia, Prince George - Foundation and Apprenticeship

Occupation (in order of # positions required)	Description	Qualifications and Sources of Training Note - Qualifications and sources of training may change over time. Additional Indigenous and non-Indigenous service providers may deliver similar courses or programs for some of these occupational categories
15 Construction inspectors	Construction inspectors inspect the construction and maintenance of new and existing buildings, bridges, roads and industrial construction to ensure that specifications and building codes are observed and monitor work site safety. This includes employment with industrial construction companies and projects like Ksi Lisims LNG.	1. Completion of secondary school is required. 2. A college diploma in construction, civil engineering or architectural technology plus several years of related work experience or several years of experience as a qualified tradesperson in a construction trade, such as plumbing, carpentry or electrical trade are usually required. 3. Provincial certification in a skilled trade or as an engineering technologist is usually required. Certification as a Construction Safety Officer (CSO) by provincially chartered associations may be required in provinces having such associations. University of Northern BC (Prince George) - Bachelor of Applied Science, Engineering
16 Heavy duty equipment technician	Heavy-duty equipment mechanics repair, troubleshoot, adjust, overhaul and maintain mobile heavy-duty equipment used in industrial construction on this project. Apprentices are also included in this occupational category.	1. Completion of Heavy Duty Equipment Technician 4-year (7 weeks per year) Apprenticeship Program. 2. Required to accumulate 6,360 hours of work-based training. Coast Mountain College (Terrace) - Heavy Duty Equipment Technician Apprenticeship and Foundation Certificate College of New Caledonia (Prince George) - Heavy Mechanical Trades Apprenticeship and Foundation Certificate

Occupation (in order of # positions required)	Description	Qualifications and Sources of Training Note - Qualifications and sources of training may change over time. Additional Indigenous and non-Indigenous service providers may deliver similar courses or programs for some of these occupational categories
17 Instrumentation Technicians	Industrial instrument technicians and mechanics repair, maintain, calibrate, adjust, and install industrial measuring and controlling instrumentation on this project. Apprentices are also included in this occupational category.	1. Completion of Instrumentation Technician 4-year (10 weeks per year) Apprenticeship Program. Also, required to accumulate 6,000 hours of work-based training. BCIT (Burnaby) – Industrial Instrumentation and Control Technician Apprenticeship and Diploma
18 Purchasing agent and officers	Source and purchase general and specialized equipment, materials, business services, and land or access rights for use or for further processing by the facility during construction and operations.	1. Post-secondary diploma or degree. 2. Preferably a certificate in purchasing from the Purchasing Management Association of Canada (PMAC), or eligible to obtain one. Coast Mountain College (Terrace) – Business Diploma program College of New Caledonia (Prince George) - Business Management Certificate British Columbia Institute of Technology, Burnaby Douglas College, New Westminster
18 Non-destructive testers and inspectors	Operate radiographic, ultrasonic, liquid penetrant, magnetic particle, eddy current, and similar testing equipment to detect gaps in objects and materials for quality control, maintenance and safety.	1. Completion of two years of a post-secondary science or engineering program 2. Basic NDT training and certification.

Occupation (in order of # positions required)	Description	Qualifications and Sources of Training Note - Qualifications and sources of training may change over time. Additional Indigenous and non-Indigenous service providers may deliver similar courses or programs for some of these occupational categories
18 Marine Craft Operators	Operate motorboats, launches, small ferry boats and other similar vessels to transport workers and other passengers or freight; maintain boats and equipment on board, such as engines, winches, derricks, fire extinguishers and life preservers. Perform other duties, such as check for oil spills or other pollutants around ports and harbours, patrol beaches, and measure depth of water.	1. High school completion. 2. Marine craft operator certification, including a current Small Vessel Operator Proficiency Certificate
18 Occupational Health & Safety Personnel	Review, evaluate, and monitor health and safety hazards and develop strategies to prevent, control, and eliminate accidents and occupational injuries. Inspect the workplace environments, equipment, and practices to ensure compliance with organization and government standards and regulations. They may be H&S trainers, H&S officers, H&S coordinators or H&S consultants.	1. Post-secondary certificate or diploma University of Northern BC (online) BC Institute of Technology, Burnaby Okanagan College, Penticton
18 Non-destructive testers and inspectors	Operate radiographic, ultrasonic, liquid penetrant, magnetic particle, eddy current, and similar testing equipment to detect gaps in objects and materials for quality control, maintenance and safety.	1. Completion of two years of a post-secondary science or engineering program 2. Basic NDT training and certification.

Occupation (in order of # positions required)	Description	Qualifications and Sources of Training Note - Qualifications and sources of training may change over time. Additional Indigenous and non-Indigenous service providers may deliver similar courses or programs for some of these occupational categories
19 Land surveyors	Land surveyors plan, direct and conduct legal surveys to establish on the project the location of real property boundaries, contours and other natural or human-made features, and prepare and maintain cross-sectional drawings, official plans, records and documents pertaining to these surveys.	1. Bachelor's degree in geomatics engineering or survey engineering is usually required. 2. A college diploma in survey science or geomatics technology with additional academic credits and successful completion of equivalent examinations set by a regional board of examiners for land surveyors is required. 3. A one- to three-year articling period is required. 4. Successful completion of professional land surveyor examinations is required. 5. A federal or provincial land surveyor's licence is required. BCIT (Burnaby) – Bachelor of Science, Geomatics
20 Boilermakers	Construct, assemble, test, maintain, and repair boilers, tanks, vessels, towers, heat exchangers, LNG processing trains, and other heavy metal structures which hold liquids and gases.	1. This apprenticeship program includes Levels 1 & 2 of progressive training, with each Level taking 5 weeks (150 hours) to complete. 2. Apprentices are also required to accumulate 4,950 hours of work-based training. British Columbia Institute of Technology, Burnaby – Foundation and Apprenticeship

Other Construction Phase Positions

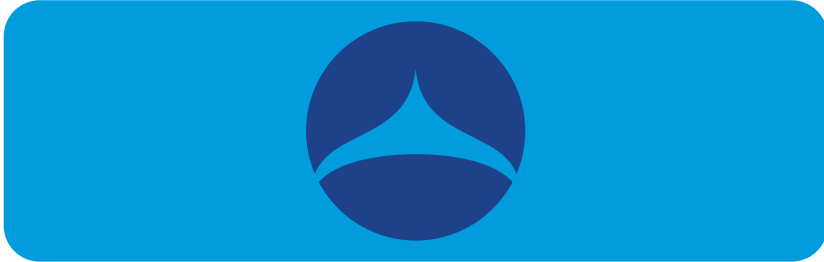
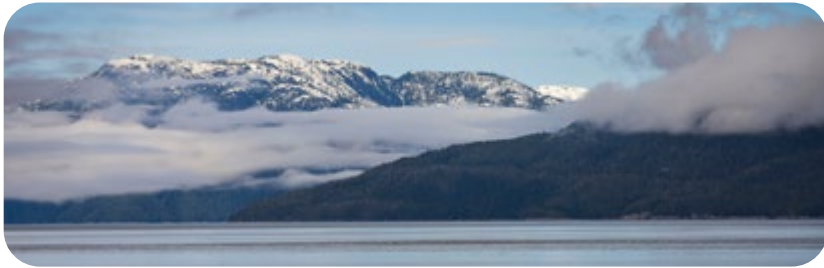
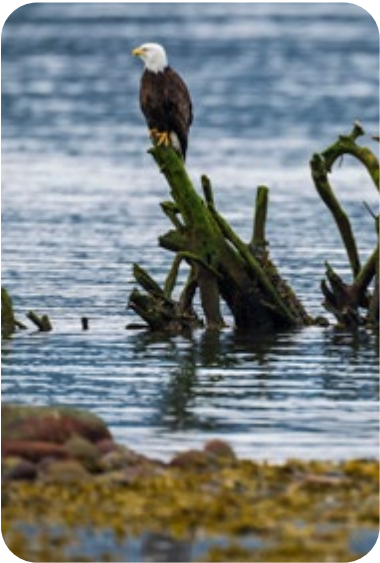
Occupation (in order of # positions required)	Description	Qualifications and Sources of Training Note - Qualifications and sources of training may change over time. Additional Indigenous and non-Indigenous service providers may deliver similar courses or programs for some of these occupational categories
Purchasing Managers	Oversee, plan, direct, control and assess the activities of a purchasing department and develop the company's purchasing policies and strategies for sourcing. Negotiate new supplier relationships. Manage budgets potentially in the millions, and work closely with other departments such as finance and engineering.	1. Post-secondary diploma or degree Coast Mountain College (Terrace) – Business Diploma program College of New Caledonia (Prince George) - Business Management Diploma
Insulators	Apply insulation materials to cooling and refrigeration systems, piping equipment and pressure vessels, and walls, floors and ceilings of buildings and other structures.	1. High school completion 2. Trade certification 3. Safety certifications 4. Specialized training (for cryogenic specialty) HF Insulation Industry Apprenticeship Association, Port Coquitlam
Civil Engineering Technologists & Technicians	Assist engineers in planning, designing, constructing, and maintaining the facility and associated infrastructure. This may include the facility and/or associated plants, pumping and compressor stations, pipelines, storage facilities, tanks and reservoirs, etc.	1. Post-secondary diploma College of New Caledonia (Prince George) – Civil Engineering Certificate and Diploma

Occupation (in order of # positions required)	Description	Qualifications and Sources of Training Note - Qualifications and sources of training may change over time. Additional Indigenous and non-Indigenous service providers may deliver similar courses or programs for some of these occupational categories
Warehouse Material Technicians	Responsible for products within a warehouse environment including: receiving, storing, and issuing materials, equipment, and other items from the stockroom, warehouse or storage yards. May also connect hoses or pipes and operate equipment to load and unload facility products, chemical, or other products into or from tank cars, tank trucks or storage tanks. Keep records and compile stock reports and process orders from supplier company facilities/plants or external customers.	1. High school completion, preferably some post-secondary warehouse/parts training or Parts/Warehouse apprenticeship Coast Mountain College, Terrace
Purchasing Managers	Oversee, plan, direct, control and assess the activities of a purchasing department and develop the company's purchasing policies and strategies for sourcing. Negotiate new supplier relationships. Manage budgets potentially in the millions, and work closely with other departments such as finance and engineering.	1. Post-secondary diploma or degree Coast Mountain College (Terrace) - Business Diploma program College of New Caledonia (Prince George) - Business Management Diploma

Top 15 Operations Phase Positions

Occupation (in order of # positions required)	Description	Qualifications and Sources of Training Note - Qualifications and sources of training may change over time. Additional Indigenous and non-Indigenous service providers may deliver similar courses or programs for some of these occupational categories
1 Central Control & Process Operators, Petroleum, Gas & Chemical Processing	Responsible for the safe and reliable operation of facility and associated pipelines and processes. Monitor and control facility operation and processing from a centralized control room. Use a highly computerized supervisory control and data acquisition system to control and monitor pipeline flow rates, system pressures, temperatures, product quality, pressure losses, product blending and logistics.	1. High school completion 2. Post-secondary certificate or diploma 3. Company and third party technical training BCIT (Burnaby) – Power and Process Engineering Diploma and Industrial Instrumentation and Process Control Technician Diploma
2 Contractors & Supervisors, Other Construction Trades, Installers, Repairers & Servicers	Supervise and coordinate the activities of various tradespersons, installers, repairers, and servicers including bricklayers and insulators, concrete finishers, tilers and plasterers, roofers, glaziers, painters, decorators, and floor covering installers, etc.	1. High school completion 2. Several years of experience in a construction trade or in the work area supervised. Journey person trade certification may be required for some positions.

Occupation (in order of # positions required)	Description	Qualifications and Sources of Training Note - Qualifications and sources of training may change over time. Additional Indigenous and non-Indigenous service providers may deliver similar courses or programs for some of these occupational categories
3 Travel & Facilities Set-Up Support Services	Workers in support occupations in accommodation, travel and facilities are associated with the facility camp (i.e., floatel during construction) and permanent accommodations to facilitate facility worker travel and arrival, setting up, cleaning, repairing worker rooms, transporting workers to and from the site to airports and other mobilizing points. They assist in acquainting workers with accommodations and facilities at the site.	1. High school completion Coast Mountain College, Terrace College of New Caledonia, Prince George



Occupation (in order of # positions required)	Description	Qualifications and Sources of Training Note - Qualifications and sources of training may change over time. Additional Indigenous and non-Indigenous service providers may deliver similar courses or programs for some of these occupational categories
4 Civil Engineers Mechanical Engineers Electrical & Electronics Engineers Chemical Engineers Industrial & Manufacturing Engineers	Plan, design, and supervise the construction and maintenance of building and infrastructure projects. Provide technical support and quality management in facility component design, evaluation, procurement, modification, and installation of mechanical equipment and systems that support the reliable, efficient and safe operations. Design, develop, test, and supervise the manufacture of electrical equipment, such as electric motors, radar and navigation systems, communications systems, or power generation equipment. Chemical engineers research, design, test and develop chemical processes and equipment to enhance operations, improve efficiencies, reduce emissions and resolve issues in the facility. Also oversee the operation, performance, optimization and maintenance of processing, liquefaction, etc. Design, improve, and implement integrated systems of human beings, materials, energy, information, and equipment to produce goods or services efficiently.	1. Post-secondary degree and provincial professional designation for all engineering positions. or 2. Enrolled in senior year of engineering studies and eligible to fulfill professional engineer registration requirements upon graduation University of Northern BC, Prince George

Occupation (in order of # positions required)	Description	Qualifications and Sources of Training Note - Qualifications and sources of training may change over time. Additional Indigenous and non-Indigenous service providers may deliver similar courses or programs for some of these occupational categories
6 Supervisors, Petroleum, Gas, Chemical Processing & Utilities	Supervise and coordinate the activities of workers including: central control and process operators; power engineers and power systems operators; water and waste treatment plant operators.	1. High school completion 2. Post-secondary education in chemical processing or sciences. 3. Several years of experience as a senior operator in petroleum, gas or chemical processing.
7 Food & Beverage Servers	Food and beverage servers take food and beverage orders and serve orders to workers in facility housing.	1. High school completion 2. Completion of FOODSAFE Level 1, Serving It Right and BSAFE Coast Mountain College (Terrace) Kitselas Five Tier (KST)
8 Security Guards & Related Security Service Occupations	Guard and implement security measures to protect property against theft, vandalism, and fire; to control access; to maintain order and enforce regulations at public events and within the facility; to perform screening of passengers, luggage or cargo; etc.	1. High school completion 2. Security worker training 3. BC security license. Justice Institute of BC 40-hour online course
9 Administrative Assistants	Perform a variety of administrative duties in support of managerial and professional personnel during construction and operations of the facility, including roles as administrative assistants, executive secretaries, HR administrators, office administrative assistants, technical secretaries, etc.	1. High school completion combined with previous experience as an administrator. or 2. Certificate in business administration. Coast Mountain College, Terrace College of New Caledonia, Prince George

Occupation (in order of # positions required)	Description	Qualifications and Sources of Training Note - Qualifications and sources of training may change over time. Additional Indigenous and non-Indigenous service providers may deliver similar courses or programs for some of these occupational categories
10 Sales Support Occupations	Sales support includes cashiers, service station attendants, store shelf stockers, store clerks and order fillers, and other sales related occupations.	1. High school completion
11 Production Logistics Coordinators	Speed up the flow of work and materials within the facility construction site and during operations, ensure products and processes are on schedule, and prepare products ready for shipment.	1. High school completion 2. Training and certificate in logistics or supply chain certificate or diploma program
12 Computer Network Technicians	Establish, operate, maintain and coordinate the use of local and wide area networks, mainframe networks, hardware, software and related computer equipment during operations of the facility.	1. High school completion 2. Diploma or certificate in network or system administration, technology support or a related field. Certain software and/or cloud computing certification may be required. Coast Mountain College (Terrace) - Will be launching a new IT Diploma program in systems administration in 2025 Winter College of New Caledonia (Prince George) - IT Network Certificate and Diploma

Occupation (in order of # positions required)	Description	Qualifications and Sources of Training Note - Qualifications and sources of training may change over time. Additional Indigenous and non-Indigenous service providers may deliver similar courses or programs for some of these occupational categories
13 Inspectors in Public & Environmental Health & Occupational Health & Safety	Review, evaluate, and monitor public health and environmental safety hazards. Develop strategies to prevent, control, and eliminate potential health issues. Inspect restaurants, industrial establishments, municipal water systems, facilities, and institutions to ensure compliance with government regulations regarding sanitation, pollution control and the handling and storage of hazardous substances.	1. High school completion 2. Training and certificate in logistics or supply chain certificate or diploma program Coast Mountain College, Terrace College of New Caledonia, Prince George
14 Chefs	Plan and direct food preparation and cooking activities and prepare and cook meals and specialty foods for the workforce at facility housing.	1. High school completion 2. Completion of a three-year Cook apprenticeship, or enrolled as a Cook apprentice Coast Mountain College (Terrace) - Western Culinary Diploma Coast Mountain College, Professional Cook, Terrace College of New Caledonia (Prince George) - Professional Cook Apprenticeship Kitselas Five Tier, Levels 1-2, Professional Cook
15 Cooks	Prepare and cook a wide variety of foods and support chefs at facility housing.	1. High school completion 2. Training and certificate in logistics or supply chain certificate or diploma program Coast Mountain College, Terrace College of New Caledonia, Prince George

Other Operations Phase Positions

Occupation (in order of # positions required)	Description	Qualifications and Sources of Training Note - Qualifications and sources of training may change over time. Additional Indigenous and non-Indigenous service providers may deliver similar courses or programs for some of these occupational categories
Food Counter Attendants and Food Preparers	Prepare, heat and finish cooking simple food items and serve customers at food counters. Kitchen helpers, food service helpers and dishwashers clear tables, clean kitchen areas, wash dishes, and perform various other activities to assist workers who prepare or serve food and beverages.	1. High school completion 2. FOODSAFE Level 1
Paramedical Occupations	Administer pre-hospital emergency medical care to patients with injuries or medical illnesses and transport them to hospitals or other medical facilities for further medical care.	1. High school completion 2. Graduation from a certified paramedical program Coast Mountain College (Terrace) – Occupational First Aid Level 3 Justice Institute of BC, Lower Mainland
Bus Drivers	Drive buses to transport workers and other passengers between the facility and various pick-up points.	1. High school completion 2. Class 4 Unrestricted or Class 2 driver's license
Deck Officers – Water Transport	Administer pre-hospital emergency medical care to patients with injuries or medical illnesses and transport them to hospitals or other medical facilities for further medical care.	1. Completion of deck officer cadet program 2. Deck officer certificate from Transport Canada 3. Work experience

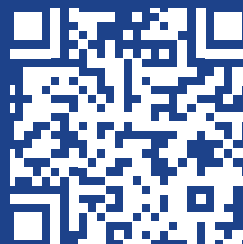
Occupation (in order of # positions required)	Description	Qualifications and Sources of Training Note - Qualifications and sources of training may change over time. Additional Indigenous and non-Indigenous service providers may deliver similar courses or programs for some of these occupational categories
Supply Chain Analyst	Source materials and equipment that the facility and contractor need to get their work completed (i.e., procurement, awarding supplier contracts, etc.). Identify efficiencies or recommend changes by analyzing supplier capabilities, service levels, product delivery, supply chain processes, spending and trends.	1. Post-secondary diploma or degree Coast Mountain College (Terrace) – Business Diploma program may be relevant
Facility and Operations Maintenance Manager	Organize, direct, control and assess the operations of a facility – and ensure proper equipment is available and appropriate, that operations and maintenance resources are available to support the facility, staff are properly trained, and operational roles and responsibilities are clearly communicated. Particularly important is the development of and ensuring compliance with health and safety protocols.	1. Post-secondary degree

Occupation (in order of # positions required)	Description	Qualifications and Sources of Training Note - Qualifications and sources of training may change over time. Additional Indigenous and non-Indigenous service providers may deliver similar courses or programs for some of these occupational categories
Power Engineers	Operate and maintain reactors, turbines, boilers, generators, stationary engines and auxiliary equipment to generate electrical power and to provide heat, light, refrigeration and other utility services for commercial, industrial and institutional buildings and other work sites. Power systems operators monitor and operate switchboards and related equipment in electrical control centres to control the distribution of electrical power in transmission networks.	1. High school completion 2. Fourth-Class Power Engineering/Process Operator Certificate Program Coast Mountain College currently offers a 4th Class Power Engineering Program with CNC and LNG Canada and is developing one for Terrace Campus. and developing a CMTN one for future College of New Caledonia (Prince George) – PE 3rd and 4th Class BCIT (Burnaby) – PE 4th Class
Operations and Production Accountants	Ensure that information as it relates to the quantities, costs and revenues associated with the facility and associated activities are properly accounted for and reported in order that good decisions about planning or operating a facility or project can be made.	1. Post-secondary degree 2. Certified Public Accountant designation or enrolment in a CPA program Coast Mountain College, Terrace College of New Caledonia, Prince George Accounting & Finance Diploma programs



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