



LNG

LIQUEFIED NATURAL GAS
Skilled Trades Careers

*If you've got passion,
we've got opportunity.*



ita

LNG 101

Find out how LNG starts out as plants and animals and ends up powering cities.

1

Gas reserves are found hundreds of meters below the earth's surface. Drilling platforms are used to drill down to these gas pockets and bring the gas to the earth's surface.



DID YOU KNOW?

Oil and gas started out as microscopic plants – smaller than a splinter – and animals living in the ocean millions and millions of years ago.

2

Gas is piped from the drilling platform to an LNG facility where it is put through a process that removes water, oxygen and other impurities. Once cleaned, the gas is cooled to around -162°C when it becomes liquefied. Then, it's stored in huge tanks.



DID YOU KNOW?

Once the gas becomes liquefied, it reduces in size 600 times and becomes a nonflammable and nonexplosive material, making it completely safe to transport.

3

LNG vessels are loaded full of LNG and are transported all around the world. Once it reaches its destinations, it is put through a process where the LNG is warmed up and turned back into gas. That gas is then used to provide power to communities all over the world.



DID YOU KNOW?

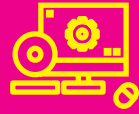
One of the world's largest LNG transport vessels is nearly 350 meters long....that's around six hockey rinks in length!



Skilled tradespeople are an important part of making all of this possible. Would you like to be part of it, too?

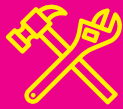
CAREER OPPORTUNITIES

Curious about skilled trades career options in the LNG industry? Here are a few to keep in mind:



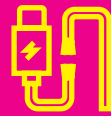
Instrumentation and Control Technician

Measure and control instrumentation.



Industrial Mechanic (Millwright)

Maintain, install, disassemble and reassemble industrial machinery.



Industrial Electrician

Maintain, install, test and repair industrial equipment related to electrical and electronic controls.



Gasfitter

Install, repair and maintain gas meters, lines, appliances and regulators.



Chemical Engineer

Research, develop and implement chemical processes related to the production or use of chemicals and fuel.

START TRAINING FOR THESE CAREERS NOW WITH
ITA YOUTH TRADES PROGRAMS

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DISCOVER

GRADES 5-12

The programs vary from one day events with local tradespeople to classroom activities with trades thinking and skill building.

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EXPLORE

GRADES 10-12

Not sure which trades career suits you best? Here's where you can give them a shot to find out which skilled trades opportunity is right for you.

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TRAIN

GRADES 10-12

Prep for the future by attending a trades training class where you'll learn from skilled instructors at your local training facility. Pro: You'll earn a credit towards your high school diploma and Level 1 of your technical trades training after completion.

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WORK

GRADES 10-12

Jump ahead with this trades apprenticeship program that pays. Pro: earn 480 training hours towards your trades credential and up to 16 credits towards your high school diploma before you graduate. There's even a \$1,000 award to be won!

BEFORE **YOU GO...**

We've got questions to get your gears turning.

What are some ways to jumpstart your career in the LNG industry while in high school?

What is LNG primarily used for?

Why do you think natural gas goes through a process plant before being transported? Also, why is it liquefied?

Is there a career in the LNG industry that interests you? If so, which one and why?

Actually, **one more thing!**

Planning your future can be tough. We can help make it easier. Don't miss out on all of the exciting opportunities available for skilled trades careers in the LNG industry.

Learn more by talking to a school career counselor or visiting **youth.itabc.ca** to discover what the future holds for you in LNG.