

MILLWRIGHT & INDUSTRIAL MECHANIC

#JourneypersonMillwright #MillwrightApprentice

Tinkering, turning, tuning, fixing – Millwrights, sometimes referred to as Industrial Mechanics, are some of the most technically difficult of trades. You install, maintain, troubleshoot, overhaul and repair stationary industrial machinery and mechanical equipment. If you're technically and mechanically inclined, you may want to consider putting your skills to the test in this lesser known trades.

HOW DO I GET HERE?

A high school diploma (or equivalent) and completion of a three- to four-year apprenticeship program is typically required to become a certified tradesperson.

A pre-apprenticeship foundation program is another route into apprenticeship training.

The Red Seal endorsement is the interprovincial standard of excellence, and is available to tradespersons upon successful completion of the Red Seal examination.

HEALTH & SAFETY TRAINING

- Standard and emergency first aid
- Workplace Hazardous Materials Information System (WHMIS)
- Construction Safety Training System (CSTS)
- Pipeline Construction Safety Training (PCST)
- H2S Alive
- Confined space entry
- Fall protection

HOW CAN I WORK IN LNG?

As Canada prepares for the launch of a liquefied natural gas (LNG) sector, this occupation will play a key role in:

- LNG export facility construction and operations
- Natural gas pipeline construction
- Turnaround maintenance

When the LNG industry takes off, you can be a part of the action!



What does this career look like?

As a Millwright, you work on new or maintenance projects and install, repair or overhaul machinery and equipment in manufacturing, processing and production facilities or on construction sites. You have a mindset for troubleshooting and repair as you keep facilities operating.

You enjoy the investigative and technical nature of your job, and you find satisfaction in problem solving.

One of the most complicated types of equipment you might work on is a compressor. There are many types of compressors and they are used in both oil and gas facilities and natural gas pipelines. During the commissioning of a plant or compressor station, for instance, starting up compressors may be a big part of the job. You might "slow-roll" the compressors (start out at 10 to 15 per cent of the regular speed), listening for "knocks" and then conduct vibration analyses and other diagnostic activities to ensure the equipment is starting up properly.

The same plant is full of equipment that rotates, which will require proper alignment when it's installed. Pumps are an example – chemical pumps, injection pumps, and pumps for liquids, oil or condensate. You may even specialize in pump mechanics.

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What would I do?

You get things running and keep things humming. And when they don't run, you fix them. You may be working on mechanical, pneumatic, hydraulic, fuel, lubrication, cooling and exhaust systems with components that include pumps, fans, tanks, conveyors, presses and generators.

You'll likely deal with a lot of unknowns, so you'll use your investigative skills to find out the root cause of a problem. Your communications skills are key.

Other tasks you may be required to do as a Millwright or Industrial Mechanic include:

- Monitoring plant equipment to pinpoint problems before they arise
- Moving machinery and equipment using hoists, dollies, rollers and trucks
- Operating newly repaired machinery or equipment to verify the adequacy of repairs
- +5YRS** ▸ Providing mechanical expertise for new construction and repairs within the plant according to safety, quality and trade standards and guidelines

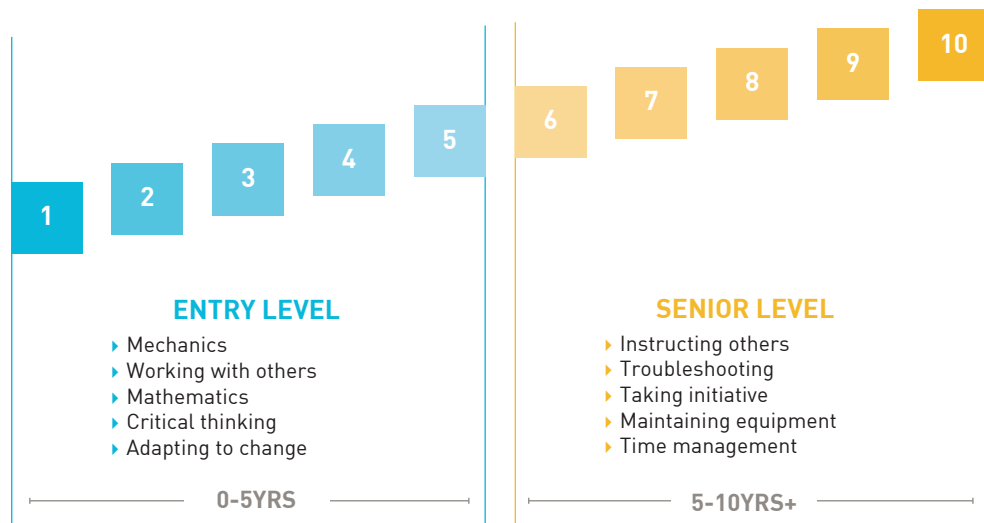
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+5YRS Senior Level Activity



What competencies do I need?

You're a whiz at mechanics and thrive on the challenge of troubleshooting. You're able to follow procedures closely when adjusting machinery or installing new equipment. You bring good eye-hand coordination, strength, agility and the ability to work both independently and as part of a team. Your skills and knowledge include:



PATHWAYS



You could move into roles such as:

- Supervisory positions
- Machinist
- Rotating Equipment Specialist
- Stationary Equipment Specialist
- Vibration Specialist
- Maintenance Coordinator
- Quality control and quality assurance
- Training

You could transfer your skills to sectors such as:

- Utilities
- Paper manufacturing
- Petroleum and coal product manufacturing
- Chemical manufacturing
- Heavy and civil engineering construction
- Construction of buildings (non-residential and residential)
- Mining and quarrying
- Wood product manufacturing



What can I expect?

Plants can be loud and complex so you'll need to have a safety mindset as you work around rotating equipment and other moving parts, electricity and chemicals. Typically employed in the exploration and production (E&P), oil sands, oil and gas services, and pipeline sectors of the oil and gas industry, working conditions can vary from one job to another including confined spaces, high elevations and noisy, dusty, cold or unusually warm conditions.

Many construction and turnaround maintenance jobs will be remotely located and you will need to be away from home, move from project to project, live in a camp and work extended hours. If you work in an operations plant, you will work shifts and, depending on the remoteness of the operations, may also be away from home and live in a camp while working your rotation.

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How can I learn more?

To find out more about the roles related to a Millwright or Industrial Mechanic and other careers in the oil and gas industry, visit the Careers in Oil + Gas online tool at careersinoilandgas.com.

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#IndustrialMechanics
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