

**Also known as:**

Industrial Mechanic;
Industrial Mechanic
Millwright; Construction
Millwright

Salary range:

Average: \$38.00/hour

Range: \$24.74 - \$56.50/hour

Source: Government of Canada Job Bank

Work type:

Full-time; shift work;
rotational work

Work environment:

Millwrights work on various projects, machines, systems and have the opportunity to problem solve and troubleshoot technical challenges. It is an ideal career for those that enjoy hands-on work, mechanics and staying active. Many Millwrights travel for work, providing the opportunity to see new places.

JOB DESCRIPTION

Millwrights are responsible for assembling, installing, maintaining, troubleshooting and repairing stationary industrial machinery and mechanical equipment for various systems and infrastructure. Millwrights play an important role in renewable energy projects with large-scale mechanical systems and infrastructure by ensuring they are installed and maintained for optimal operation and longevity.

GENERAL JOB TASKS

- Install, align, dismantle and move stationary industrial machinery and mechanical equipment, such as pumps, fans, tanks, conveyors, furnaces and generators according to layout plans using hand and power tools.
- Install, troubleshoot and maintain power transmission, vacuum, hydraulic and pneumatic systems, and programmable logic controls.
- Operate hoisting and lifting devices such as cranes, jacks and tractors to position machinery and parts during the installation, set-up and repair of machinery.
- Operate machine tools such as lathes and grinders to fabricate parts required during overhaul, maintenance or set-up of machinery.
- Inspect and examine machinery and equipment to detect and investigate irregularities and malfunctions.
- Adjust machinery and repair or replace defective parts.
- Clean, lubricate and perform other routine maintenance work on machinery.
- Read blueprints, diagrams and schematic drawings to determine work procedures.

TRAINING

To become a Journeyperson Millwright, an individual must compete the certification examination to be granted a **Certificate of Qualification (Red Seal - Industrial Mechanic/Millwright)**. A Certificate of Qualification is not compulsory in Newfoundland and Labrador to work as Industrial Mechanic/Millwright.

To achieve Certificate of Qualification, individuals can explore one of the following pathways:



Pre-Employment Program

Individuals with limited or no recent work experience in the trade can register and complete a Pre-Employment Program (listed under Educational Options) and then **Register as an Apprentice** with the **Apprenticeship and Trades Certification Division (ATCD)**, Department of Immigration, Population Growth and Skills.



Recognition of Prior Learning

Individuals with acquired learning from work experience, life experiences and other formal training, which may be equivalent to certain components of apprenticeship training programs, can contact an **Apprenticeship Program Officer** to discuss **Recognition of Prior Learning**.



Trade Qualifier

Individuals who meet the jurisdictional requirements and have at least one and a half (1.5) times the work experience of an apprenticeship term for a designated trades can have their work skills and hours verified by a certified journeyperson and may be eligible to write the certification examination as a **Trade Qualifier**.

EDUCATIONAL OPTIONS

Institution: College of the North Atlantic	Location: Corner Brook, Labrador West, Placentia
Program: <u>Industrial Mechanic (Millwright)</u>	Duration: 37 weeks
Delivery mode: On-campus delivery; full-time	Cost (tuition, fees, supplies): Canadian Residents: \$6,800.00 (May be subject to change) International Students: \$13,700.00 (May be subject to change)
Entrance requirements: Eligibility for admission requires one of the following: • High School Graduation • Adult Basic Education • Trades Bridging Certificate • Mature Student Requirements	



Learn more about Entrance Requirements [here](#).

Institution: Carpenter Millwright College	Location: Paradise
Program: <u>Industrial Mechanic (Millwright)</u>	Duration: 37 weeks
Delivery mode: On-campus delivery; full-time	Cost (tuition, fees, supplies): \$17,000.00 (May be subject to change)
Entrance requirements: Eligibility for admission requires one of the following: • High School Graduation or equivalent • Mature Student Requirements	



Learn more about Entrance Requirements [here](#).

ESSENTIAL SKILLS

- Technical skills and aptitude (repair, preventative maintenance, machinery & equipment)
- Manual dexterity
- Document Use
- Problem-solving skills
- Attention to detail/precision
- Communication skills
- Working with others
- Continuous learning
- Occupational Health and Safety

CAREER PROGRESSION

With experience and additional training, Millwrights can progress into mentorship, supervisory and management positions. They may start their own contracting business and/or move into teaching/instructor positions.

OTHER REQUIRED TRAINING/CERTIFICATIONS

- WHMIS (Workplace Hazardous Materials Information System) Certification
- Standard First Aid
- Occupational Health and Safety
- Site-Specific Safety Certifications

These may be covered in Educational Program or by employer.

USEFUL RESOURCES:

- [Apprenticeship & Trades Certification Division](#)
- [Government of Canada - Career Planning](#)
- [Red Seal Program](#)
- [BuildForce Canada](#)
- [Labour Market Information](#)