

## **Description**

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

## **Personal Qualities**

- You work indoors with noise, vibrations and other hazards that are common on the job
- You enjoy working to close and exacting tolerances
- You have the stamina to be on your feet for long periods of time
- You like to learn new things on a consistent basis

## **Career Opportunities**

- Industrial mechanic millwright are employed in manufacturing plants, utilities and other industrial establishments

## **Educational/Training Requirements**

- The minimum entry for apprenticeship is Grade 12
- Completion of a 7,280 hour apprenticeship program is required
- If you have completed 8,000 hours of on the job experience/training but have not completed the Apprenticeship Program you may be eligible to challenge the Certificate of Qualification

## **Training Availability**

### Trade Related Programs

Mechanical Technician - Mechanical Maintenance and Control and/or  
Mechanical Techniques - Industrial  
Durham College – Whitby Campus  
Whitby, ON  
[www.durhamcollege.ca](http://www.durhamcollege.ca)

## Apprenticeship Training

Durham College – Whitby Campus  
Whitby, ON  
[www.durhamcollege.ca](http://www.durhamcollege.ca)

Fleming College  
Peterborough, ON  
[www.flemingc.on.ca](http://www.flemingc.on.ca)

### **Potential Earnings**

- Apprentices start according to individual company rates and progress according to the company's wage scales over time
- Journeyperson wages range<sup>1</sup> from \$19.60 to \$37.30 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

### **Prospects For Employment**

- Employment is expected to grow about as fast as the average for all occupations through the year 2009<sup>2</sup>
- Most tradespersons work full time for a single employer

### **Financial Incentives**

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

### **Additional Information**

Job Futures  
[www.jobfutures.ca/noc/7311.shtml](http://www.jobfutures.ca/noc/7311.shtml)

Apprenticeship Subject Pathways  
[www.edu.gov.on.ca/eng/training/apprenticeship/skills/moreinfo.html](http://www.edu.gov.on.ca/eng/training/apprenticeship/skills/moreinfo.html)

National Occupational Classification  
[www5.hrsdc.gc.ca/NOC-CNP/](http://www5.hrsdc.gc.ca/NOC-CNP/)

<sup>1</sup> [www.labourmarketinformation.ca](http://www.labourmarketinformation.ca)

<sup>2</sup> [www.ontariojobfutures.ca/profile7311.html](http://www.ontariojobfutures.ca/profile7311.html)