CITATION IN MILLWRIGHT/INDUSTRIAL MECHANIC

At a Glance
Faculty
www.kpu.ca/trades

Area of Study:
www.kpu.ca/trades/millwright

Academic Level:
Vocational

Credential Granted:
Citation

Intake Type:
• Limited

Minimum Credits Required:
23.5

Curriculum Effective Date:
01-Sep-2018

Description
This 24 week program prepares students for employment as an Industrial Mechanic (Millwright) apprentice. To support career success, students learn trade attributes and employability skills, critical core knowledge, academic components and essential skills. Students are provided ongoing opportunities to apply the practical skills taught throughout the program in hand, power and machine tool use, and perform various shop projects in stationary industrial machinery and mechanical equipment maintenance, troubleshooting, overhauling and installation.

Students who successfully complete the Foundation program are eligible for ITA credit in Industrial Mechanic (Millwright) Level 1 technical training apprenticeship and 425 work-based hours.

Taking a foundation program can build the skills that employers are looking for. To progress as an apprentice you will need to find an employer who will sponsor your apprenticeship and register with the Industry Training Authority (https://www.itabc.ca/) (ITA). When you are ready for career advancement; KPU delivers Millwright/Industrial Mechanic Apprenticeship (https://calendar.kpu.ca/apprenticeships/industrial-mechanic-millwright-apprenticeship/) in-school technical training levels 2, 3 and 4.

Details on program dates are available on Kwantlen Course Search.

Who Studies Millwright/Industrial Mechanic?
This program is suited for individuals that have an aptitude and interest in mechanics and math, and enjoy investigation, analysis and problem solving. Physical demand can vary, there is a considerable amount of lifting, bending and manual dexterity. Additional information is available at: kpu.ca/trades/millwright.

Career Opportunities
Industrial mechanics (Millwrights) are employed in manufacturing plants, utilities and other industrial establishments. Progression to supervisory positions is possible with additional training and experience.

Requirements
Admission Requirements
In addition to KPU's General university admission requirements, including the vocational-level English Proficiency Requirement, the following program admission requirements apply.

• English:
  • English Studies 12 with a minimum grade of 'C' (or equivalent), or
  • Completion of KPU’s Vocational Trades English Reading Assessment with a minimum score of 80%

• Mathematics:
  • Apprenticeship and Workplace Mathematics 11 with a minimum grade of 'C' (or equivalent), or
  • Foundations of Mathematics 11 with a minimum grade of 'C' (or equivalent), or
  • Pre-calculus 11 with a minimum grade of 'C' (or equivalent), or
  • KPU’s Vocational Trades Mathematics Assessment with a minimum threshold percentage of 63%

Notes:
• Group information sessions are regularly scheduled at the Cloverdale campus, and participation is highly recommended. Please see kpu.ca/trades for schedule information.
• Completion of high school shop courses is an asset.
• International student Application for Admission requires approval of the Dean.

Satisfactory physical health is also recommended. Prior to applying, prospective students with mental or physical impairments, who may require program accommodations, should contact the Office of the Dean of Trades and Technology to discuss required skills and competencies, and a Disability Advisor at 604.599.3233 to ensure appropriate accommodations can be arranged.

Curricular Requirements
Hands-on shop experience is the basis on which skills are developed. Various forms of classroom and shop instruction including lectures, labs, shop assignments, team assignments, practical demonstrations, hands-on training, structured projects, individual demonstration of technical skills, and group lectures will be utilized. Also, independent study modules and directed studies modules supplemented with a wide selection of audiovisual material are available where necessary. The program focuses on direct contact between students and faculty. In addition, the expertise of other departments will be utilized to deliver specialized courses.

Speaking the language of the trade is necessary for the graduate in dealing with other trades and service people, distributors and manufacturers. Students will be required to gain proficiency in trade terminology and interpersonal and employability skills.

The student will develop the safe work habits, knowledge and ability required in industry today.
### Required Courses

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGT 1015</td>
<td>Communication Skills for Trades I</td>
<td>1.5</td>
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<tr>
<td>MATT 1015</td>
<td>Mathematics/Science for Manufacturing and Mechanical Trades 1</td>
<td>3</td>
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<tr>
<td>MWIN 1101</td>
<td>Millwright Trade Safety</td>
<td>2</td>
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<tr>
<td>MWIN 1106</td>
<td>Print Reading and Sketching</td>
<td>1</td>
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<tr>
<td>MWIN 1112</td>
<td>Measuring Tools</td>
<td>1</td>
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<tr>
<td>MWIN 1113</td>
<td>Layout and Machine Foundations</td>
<td>1.5</td>
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<tr>
<td>MWIN 1121</td>
<td>Hand Tools and Bench Work</td>
<td>1</td>
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<tr>
<td>MWIN 1131</td>
<td>Power Hand Tools</td>
<td>1</td>
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<tr>
<td>MWIN 1135</td>
<td>Rigging</td>
<td>2</td>
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<tr>
<td>MWIN 1141</td>
<td>Machine Tool Basics</td>
<td>3</td>
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<tr>
<td>MWIN 1150</td>
<td>Machine Tools</td>
<td>2</td>
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<tr>
<td>MWIN 1160</td>
<td>Fasteners and Fittings</td>
<td>1</td>
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<td>MWIN 1180</td>
<td>Level 1 Welding for Millwrights</td>
<td>2.5</td>
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<tr>
<td>MWIN 1205</td>
<td>Lubrication</td>
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<td><strong>Total Credits</strong></td>
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<td><strong>23.5</strong></td>
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**Note:** Students must achieve a minimum grade of 70% on all practical exams and assignments, which translates to a B-, in order to pass each course.

### Other Information

#### Special Equipment

Students are required to supply the appropriate personal safety equipment steel-toed safety boots, safety glasses and coveralls. A list of required tools, equipment or supplies will be provided by the instructor at the start of the program.

### Credential Awarded

Upon successful completion of this program, students are eligible to receive a Citation in Millwright/Industrial Mechanic.

KPU will report your in-school technical training completion information to the Industry Training Authority (ITA) in order for the ITA to determine credit towards your designated apprenticeship.