

Work Experience Form - Trades Qualification *Industrial Electrician*

*This completed Work Experience Form, Employer letter(s), Statutory Declaration, where applicable and appropriate fee must accompany a **Trades Qualification With Examination** application.*

A statement of work experience is a letter on company letterhead from your employer(s) covering your work experience during the last ten years and must include:

- *exact dates of employment and total hours worked;*
- *a description of all tasks completed with approximate percentage of time spent in each task area.*

Where it is not possible to obtain employer letters due to:

- *self employment,*
- *employer address is unknown, or*
- *cessation of employer's business*

Complete this Work Experience Form and A Statutory Declaration signed by a Notary Public. If you are self-employed, include your full company name, location and registration number.

- *All documents must be submitted in one of the two official languages.*

Fee Schedule

- To apply for an Interprovincial Certificate of Qualification "With Examination".....**\$250.00**

*Non-refundable fees are payable as a cheque or money order to the **Minister of Finance**. A \$20.00 service fee will be applied to all NSF cheques. You can also pay by credit card or in person by debit card.*

The following information is required in order to qualify for an Interprovincial Certificate of Qualification as an Industrial Electrician through the process of **Trades Qualification With Examination**, and/or to challenge the Interprovincial Industrial Electrician Examination. Please use additional paper if required.

Employer (Include Address)	Dates of Employment	Experience (Indicate # months)	Total # Hours

Note: *Additional information required on reverse side of page.*

Fees are collected under *The Apprenticeship and Trades Qualification Act* and its Regulations, and information is used to verify hours and place of employment. The information is protected by the provisions of the *Freedom of Information and Protection of Privacy Act*.

This personal information is being collected under the authority of the *Apprenticeship and Trades Qualifications – General Regulation* for the purposes of verifying the number of hours worked in the trade and place of employment. It will not be used or disclosed for other purposes, unless permitted by *The Freedom of Information and Protection of Privacy Act*.

Your personal information is protected by *The Freedom of Information and Protection of Privacy Act*. If you have any questions about the collection of personal information on this form, contact:

Apprenticeship Branch
 1010-401 York Avenue
 Winnipeg MB, R3C 0P8,
 (204) 945-3337 (Phone)
 1-877-978-7233 (Toll Free in Manitoba)
 (204) 948-2346 (Fax)

Work Experience Form

To qualify for a Certificate of Qualification with examination, in the **last ten years**, you must have worked a minimum of **6 years (a total of 9600 hours)** performing the following job tasks:

<h2>INDUSTRIAL ELECTRICIAN</h2> <p><i>During the last ten years, what percentage of time have you spent performing the following tasks? Percentages must total 100%.</i></p>	<p><i>Percentage of time spent performing this task</i></p>
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<ul style="list-style-type: none"> • Installation and Maintenance of Electrical Equipment <i>Includes:</i> <ul style="list-style-type: none"> - AC drives, power control circuits, starters, breakers and disconnects; and - motors and motor control centres 	%
<ul style="list-style-type: none"> • Installation, Programming and Maintenance of Microprocessor Based Systems <i>Includes:</i> PLC and DCS Systems, electronic circuit components, power supplies, solid state drives and magnetic drive assemblies and controls. 	%
<ul style="list-style-type: none"> • Installation and Maintenance of Low Voltage Distribution Systems <i>Includes:</i> low-voltage single and three phase systems. Grounding and cathodic protection. 	%
<ul style="list-style-type: none"> • Installation, Maintenance and Calibration of Industrial Instruments and Devices <i>Includes:</i> <ul style="list-style-type: none"> -pneumatic controls, PID systems, transducers, control servos; -temperature, pressure, volume, flow and weight devices; and -movement and vibration devices and process control and DCS systems. 	%
<ul style="list-style-type: none"> • Installation, Maintenance and Repair of Power Distribution and Generating Systems <i>Includes:</i> generators, transformers, alternators, substation switchgear systems, breakers and starters and related components. 	%
<ul style="list-style-type: none"> • Planning and Organization of Work Activities <i>Includes:</i> <ul style="list-style-type: none"> -interpretation of blueprints, schematics and circuit drawings; and - participation in material inventory, labour requirements, planning and quality control. 	%
<ul style="list-style-type: none"> • Installation and Maintenance of Communication and Data Systems <i>Includes:</i> fibre optics and cables, closed circuit TV, paging systems, PA systems, clock systems and radio frequency control devices as well as infrared remote devices. 	%
<ul style="list-style-type: none"> • Installation and Maintenance of HVAC Systems and Emergency and Stand-By Systems <i>Includes:</i> <ul style="list-style-type: none"> -boilers, electric heating, furnace controls, heat tracing systems; -refrigeration and air-conditioning electrical systems; and -precipitator systems, dust collector controls and energy management control systems. 	%
<ul style="list-style-type: none"> • Other Tasks <i>Includes:</i> any other tasks that you may have been assigned. If applicable, please identify these tasks and give a percentage of time spent working on them. 	%
Total	100%

I verify that, to the best of my knowledge, the information I am submitting is true and accurate.

Name (please print): _____

Signature: _____ **Date:** _____

Apprenticeship

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INDUSTRIAL ELECTRICIAN INTERPROVINCIAL THEORETICAL EXAMINATION TABLE OF CONTENTS

SECTION	TITLE	QUESTIONS	TOTAL
1	Occupational Skills	1 - 14	14
2	Wiring and Lighting Systems	15 - 30	16
3	Power Distribution and Generating Systems	31 - 45	15
4	Electrical Equipment	46 - 61	16
5	Emergency and Standby Systems	62 - 69	8
6	Communication Systems	70 - 75	6
7	Control Systems	76 - 92	17
8	Climate/Environment Control Systems	93 - 100	8
Total Questions			100

- ◆ The 19th Edition of the Canadian Electrical Code Book is required for this examination.
- ◆ This is a multiple-choice examination.
- ◆ Maximum time allowed for this examination is 3 hours.
- ◆ A diagram booklet is used with this examination.
- ◆ Passing standard is 70%.
- ◆ Table of Contents is subject to change without notice.