

Work Experience Form - Trades Qualification Power 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 a Provincial 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 in person by debit card or by credit card.

The following information is required in order to qualify for a Provincial Certificate of Qualification as a Power Electrician through the process of **Trades Qualification With 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 10,800 hours)** performing the following job tasks:

Power Electrician	<i>Percentage of time spent performing this task</i>
<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>• Basic Work Practices <i>Includes:</i> -workplace health and safety; -use of hand, power and powder actuated tools, use of technical instruments and testers as well as fibre-optic equipment; -reading and interpreting prints, codes, specs and manuals; and -communication, computer, mathematical, electronic/electrical and scientific skills.</p>	%
<p>• Operates Power Distribution, Generation and Transmission Systems <i>Includes:</i> analyzing system requirements by calculating loading requirements and performing switching following established procedures and specifications.</p>	%
<p>• Installs, Removes and Maintains High-Voltage Systems (750V-750V) <i>Includes:</i> transformers and reactors, oil circuit reclosers (OCR's), breakers; -ARC-extinguishing media, disconnects, regulating equipment; and -grounding and bonding systems, bus-work, lightning/surging arrestors and high-voltage direct current equipment.</p>	%
<p>• Installs, Removes and Maintains Low-Voltage Systems (- 750V) <i>Includes:</i> lighting, HVAC, equipment cooling and AC/DC distribution equipment.</p>	%
<p>• Installs, Removes and Maintains Rotating Machines <i>Includes:</i> motors, generators, excitation and governor equipment.</p>	%
<p>• Installs, Removes and Maintains Control Protection and Monitoring Systems <i>Includes:</i> control systems, micro-based control and monitoring systems; -battery banks/chargers and power supplies, AC/DC motor-controls, metering systems; -fire detection/suppression systems, building security; and -instrumentation and devices, relay and protection systems and annunciation systems.</p>	%
<p>• Troubleshooting <i>Includes:</i> analyzing, addressing and resolving problems and verifying problem resolution.</p>	%
<p>• Manages Projects <i>Includes:</i> planning and organizing project requirements including budget and cost control; -scheduling activities, organizing materials and tools and coordinating labour.</p>	%
<p>• 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.</p>	%
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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Winnipeg MB R3C 0P8
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1-877-978 7233 in Manitoba
Fax (204) 948-2346



Manitoba

Building for the Future

POWER ELECTRICIAN

Provincial

Passing Standard – 70%

<i>Section</i>	<i>Title</i>	<i>Questions</i>	<i>Total</i>
1	Safety and Science	1 - 10	10
2	Math	11 - 15	5
3	Related	16 - 33	18
4	Electrical Fundamentals	34 - 40	7
5	Alternating Current Fundamentals	41 - 48	8
6	D.C. Machines and Controls	49 - 53	5
7	Motor Controls	54 - 61	8
8	Electrical Instruments and Measurements	62 - 74	13
9	A.C. Machines and Controls	75 - 81	7
10	Basic Electronics	82 - 92	11
11	Single and Three Phase Systems	93 - 110	18
12	Circuit Protection and Switching Equipment	111 - 118	8
13	Digital Logic	119 - 126	8
14	Computer Applications	127 - 130	4
<i>Total Questions</i>			<i>130</i>