

ELECTRIC MOTOR SYSTEM TECHNICIAN (WINDER ELECTRICIAN)

Occupation Description

“Winder Electrician” means a person who tests, rewinds, reconditions, rebuilds, replaces and generally services electric motors, generators, alternators, transformers, control equipment, mobile machines and other related components in commercial, institutional and industrial establishments, and any other work that is usually performed by a journey person Winder Electrician.

For detailed information on the scope of knowledge and skills taught and assessed in this program refer to the Program Outline. BC apprentices registered in this program must take their technical training in Alberta. To view the Program Outline for technical training in Alberta, visit the Alberta Trade Secrets website at <http://tradesecrets.alberta.ca>.

Pathways to Certification

In BC, an individual can become certified as a Winder Electrician by completing the Winder Electrician program or by challenging the certification. Apprenticeship programs are for individuals who have an employer to sponsor them and challenge programs are for individuals who have extensive experience working in the occupation and wish to challenge the certification.

Youth can begin an apprenticeship in high school through the Youth Train in Trades or Youth Work in Trades programs. The Youth Work in Trades program is available for any trade if an employer is willing to sponsor the student. Trades offered through the Youth Train in Trades vary by region; contact your local school district to find out which technical training programs are being offered through the Youth Train in Trades program in your region.

Recommended Education

The following education is recommended for apprentices entering this occupation. These are not prerequisites, but rather a desired level of skill or knowledge that will contribute to success in the industry.

- Grade 12 or equivalent including English 12, Math 11, and Physics 11

ITA Registration

Individuals who wish to begin an apprenticeship in this program must register with ITA along with their sponsor. Application forms for all programs are available from the ITA website. Online registration is also available for most programs through the ITA website.

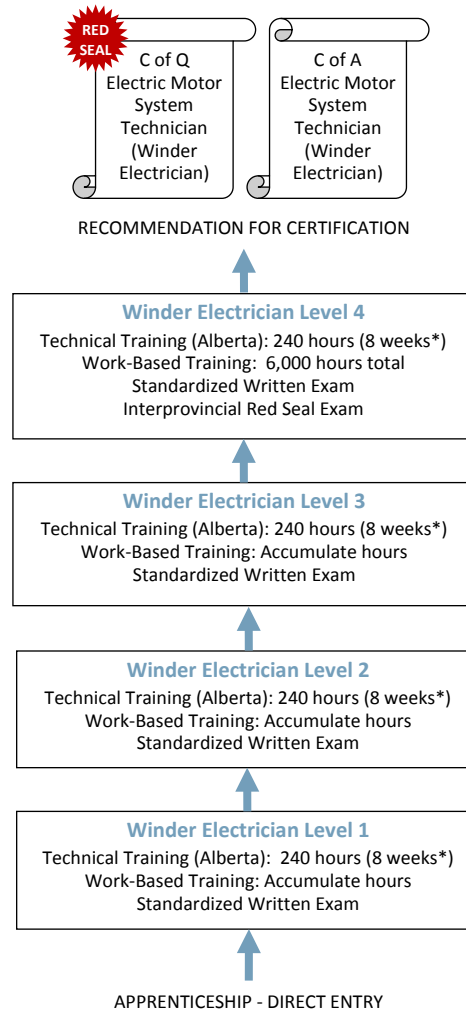
Those who wish to challenge the Winder Electrician certification must complete the Winder Electrician Challenge Application and submit it to ITA. Challenge applications are assessed for proof of workplace hours and scope of experience prior to acceptance of the individual into the Challenge pathway.



Apprenticeship Pathway

This graphic provides an overview of the Electric Motor System Technician (Winder Electrician) Apprenticeship pathway.

C of Q = Certificate of Qualification
C of A = Certificate of Apprenticeship



Technical training for this program is offered in Alberta only at the Southern Alberta Institute of Technology (SAIT)

**Suggested duration based on 30-hour week*

CROSS-PROGRAM CREDITS

Individuals who hold the credentials listed below are entitled to receive partial credit towards the completion requirements of this program

None



Apprenticeship Program Standards

Credentials Awarded

- Electric Motor System Technician (Winder Electrician) – Certificate of Qualification with Interprovincial Red Seal endorsement
- Electric Motor Systems Technician (Winder Electrician) – Certificate of Apprenticeship

ITA Registration Prerequisites

- Agreement signed by the employer to sponsor the apprentice
- **Note:** Technical training for this program is delivered in Alberta by the Southern Alberta Institute of Technology (SAIT). An ITA ID number is created when you register in the program in BC, but you must have an Alberta ID number as well in order to register for technical training. Contact ITA to have this number created for you.

Completion Requirements Certification as an Electric Motor System Technician (Winder Electrician) is awarded upon successful completion of:

Requirement	Level of Achievement Required
Technical Training (Delivered in Alberta by the Southern Alberta Institute of Technology)	Minimum 70% in each level of technical training: <ul style="list-style-type: none"> ▪ Level 1: <ul style="list-style-type: none"> ○ In-school: 240 hours (or 8 weeks*) ○ Standardized written exam: minimum 70% ▪ Level 2: <ul style="list-style-type: none"> ○ In-school: 240 hours (or 8 weeks*) ○ Standardized written exam: minimum 70% ▪ Level 3: <ul style="list-style-type: none"> ○ In-school: 240 hours (or 8 weeks*) ○ Standardized written exam: minimum 70% ▪ Level 4: <ul style="list-style-type: none"> ○ In-school: 240 hours (or 8 weeks*) ○ Standardized written exam: minimum 70%
Interprovincial Red Seal Exam	<ul style="list-style-type: none"> ▪ Minimum 70%
Work-Based Training	<ul style="list-style-type: none"> ▪ 6,000 hours
Recommendation for Certification	<ul style="list-style-type: none"> ▪ Recommendation for certification signed by the Sponsor and an individual holding credentials eligible for sign-off authority

Program Duration Duration varies depending on how training is delivered, but the program generally takes 4 years to complete.
The technical training requirement is met through block-release training (full-time, at school) delivered by an approved training provider in Alberta.

Sign-off Authority Credentials eligible to sign-off on the Recommendation for Certification:

- Electric Motor System Technician (Winder Electrician) – Certificate of Qualification with Interprovincial Red Seal endorsement
- Construction Electrician – Certificate of Qualification with Interprovincial Red Seal endorsement



Apprenticeship Program Standards

Challenging a Level

The following levels of technical training can be challenged for advanced placement in this program:

- None

Cross-Program Credits

Individuals who hold the credentials listed below are entitled to receive partial credit toward the completion requirements of this program:

Credential

Credit (s) Granted

- None

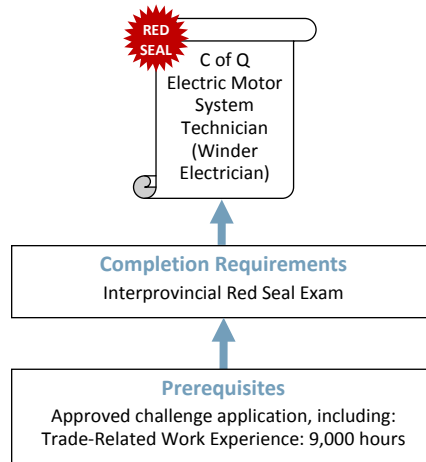
- N/A
-



Challenge Pathway

This graphic provides an overview of the Electric Motor System Technician (Winder Electrician) challenge pathway.

C of Q = Certificate of Qualification



CREDIT FOR PRIOR LEARNING

Individuals who hold the credentials listed below are considered to have met or partially met the prerequisites for challenging this program

None

Challenge Program Standards

Credentials Awarded	Electric Motor System Technician (Winder Electrician) – Certificate of Qualification with Interprovincial Red Seal endorsement				
ITA Registration Prerequisites	An approved Challenge Application, which includes: <ul style="list-style-type: none"> 9,000 documented hours of directly related experience working in the occupation 				
Credit for Prior Learning	Individuals who hold the credentials listed below are considered to have met or partially met the prerequisites for challenging this program: <table border="1" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th>Credential</th> <th>Credit(s) Granted</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>N/A</td> </tr> </tbody> </table>	Credential	Credit(s) Granted	None	N/A
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Requirement	Level of Achievement Required				
Interprovincial Red Seal Exam	Minimum 70%				



Supporting Documents

Electric Motor System Technician (Winder Electrician) Apprenticeship Course Outline (Alberta 2006) – Defines the full scope of knowledge and skills taught during technical training. Available from the ITA website.

Electric Motor System Technician National Occupational Analysis (1999) – Prepared by industry experts, under the guidance of the federal government, for Red Seal trades to define the national standard of competence for the trade. Available from the Red Seal website: www.red-seal.ca.

Contacts

The **Industry Training Authority** (ITA) manages B.C.'s industry training and apprenticeship programs. Contact ITA Customer service if you have any questions regarding registration, examinations or certification for this program.

Telephone: 778-328-8700
Toll Free (within BC): 1-866-660-6011
Website: www.itabc.ca

Fax: 778-328-8701
Email: customerservice@itabc.ca

Revision History

The standards for this program were reviewed and/or updated on the dates below.

Program Standards Approved: March 2002
Updated: January 2006
May 2013

Program Profiles are updated regularly. Visit www.itabc.ca for the most current version.