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 journeyperson 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 apprenticeship in high school through the Secondary School Apprenticeship (SSA) program. The SSA program is available for any trade if an employer is willing to sponsor the student.

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

RECOMMENDATION FOR CERTIFICATION

Winder Electrician Level 4
Technical Training (Alberta): 240 hours (8 weeks*)
Work-Based Training: 6,000 hours total
Standardized Written Exam
Interprovincial Red Seal Exam

Winder Electrician Level 3
Technical Training (Alberta): 240 hours (8 weeks*)
Work-Based Training: Accumulate hours
Standardized Written Exam

Winder Electrician Level 2
Technical Training (Alberta): 240 hours (8 weeks*)
Work-Based Training: Accumulate hours
Standardized Written Exam

Winder Electrician Level 1
Technical Training (Alberta): 240 hours (8 weeks*)
Work-Based Training: Accumulate hours
Standardized Written Exam

APPRENTICESHIP - DIRECT ENTRY

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:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Level of Achievement Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical Training (Delivered in Alberta by the Southern Alberta Institute of Technology)</td>
<td>Minimum 70% in each level of technical training:</td>
</tr>
<tr>
<td></td>
<td> Level 1:</td>
</tr>
<tr>
<td></td>
<td>o In-school: 240 hours (or 8 weeks*)</td>
</tr>
<tr>
<td></td>
<td>o Standardized written exam: minimum 70%</td>
</tr>
<tr>
<td></td>
<td> Level 2:</td>
</tr>
<tr>
<td></td>
<td>o In-school: 240 hours (or 8 weeks*)</td>
</tr>
<tr>
<td></td>
<td>o Standardized written exam: minimum 70%</td>
</tr>
<tr>
<td></td>
<td> Level 3:</td>
</tr>
<tr>
<td></td>
<td>o In-school: 240 hours (or 8 weeks*)</td>
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<td></td>
<td>o Standardized written exam: minimum 70%</td>
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<td></td>
<td> Level 4:</td>
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<td></td>
<td>o In-school: 240 hours (or 8 weeks*)</td>
</tr>
<tr>
<td></td>
<td>o Standardized written exam: minimum 70%</td>
</tr>
<tr>
<td>Interprovincial Red Seal Exam</td>
<td>Minimum 70%</td>
</tr>
<tr>
<td>Work-Based Training</td>
<td>6,000 hours</td>
</tr>
<tr>
<td>Recommendation for Certification</td>
<td>Recommendation for certification signed by the Sponsor and an individual holding credentials eligible for sign-off authority</td>
</tr>
</tbody>
</table>

**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:

<table>
<thead>
<tr>
<th>Credential</th>
<th>Credit (s) Granted</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>N/A</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Credentials Awarded</th>
<th>Electric Motor System Technician (Winder Electrician) – Certificate of Qualification with Interprovincial Red Seal endorsement</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITA Registration Prerequisites</td>
<td>An approved Challenge Application, which includes:</td>
</tr>
<tr>
<td></td>
<td>• 9,000 documented hours of directly related experience working in the occupation</td>
</tr>
<tr>
<td>Credit for Prior Learning</td>
<td>Individuals who hold the credentials listed below are considered to have met or partially met the prerequisites for challenging this program:</td>
</tr>
<tr>
<td>Credential</td>
<td>Credit(s) Granted</td>
</tr>
<tr>
<td>• None</td>
<td>• N/A</td>
</tr>
<tr>
<td>Completion Requirements</td>
<td>Certification as a Winder Electrician is awarded upon successful completion of:</td>
</tr>
<tr>
<td>Requirement</td>
<td>Level of Achievement Required</td>
</tr>
<tr>
<td>Interprovincial Red Seal Exam</td>
<td>Minimum 70%</td>
</tr>
</tbody>
</table>
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.


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
Fax: 778-328-8701
Toll Free (within BC): 1-866-660-6011
Email: customerservice@itabc.ca
Website: www.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.