

## **AIRCRAFT STRUCTURAL TECHNICIAN**

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### **Occupation Description**

“Aircraft Structural Technician” means a person who selects, measures, shears, cuts, bends, forms, heat treats, seals, fabricates, fits, inspects, paints and refinishes parts and components to drawing specifications; drills, countersinks, dimples, reams and taps holes for bolting, screws, riveting, and installation of special fasteners; assembles parts and components and sub-assemblies using special jigs and fixtures; uses special tools and tooling for installation of bolts, rivets, screws and special fasteners; installs completed components in aircraft and inspects and verifies the installation and operation of the components using test and measuring equipment as required; reworks and/or replaces components to rectify damaged or malfunctioning components.

For detailed information on the scope of knowledge and skills taught and assessed in this program refer to the Program Outline, available on the SkilledTradesBC website.

### **Pathways to Certification**

In BC, an individual can become certified as an Aircraft Structural Technician by completing the Aircraft Structural program. Apprenticeship programs are for individuals who have an employer to sponsor them.

There is no challenge pathway for this program.

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.

**Note:** Licensing for Aircraft Maintenance Engineer (AME) “S” rating is separate from certification as a SkilledTradesBC Aircraft Structural Technician. AME licensing is issued by Transport Canada. There are no transferable credits between the two programs. Please visit [www.tc.gc.ca](http://www.tc.gc.ca) for details.

### **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.

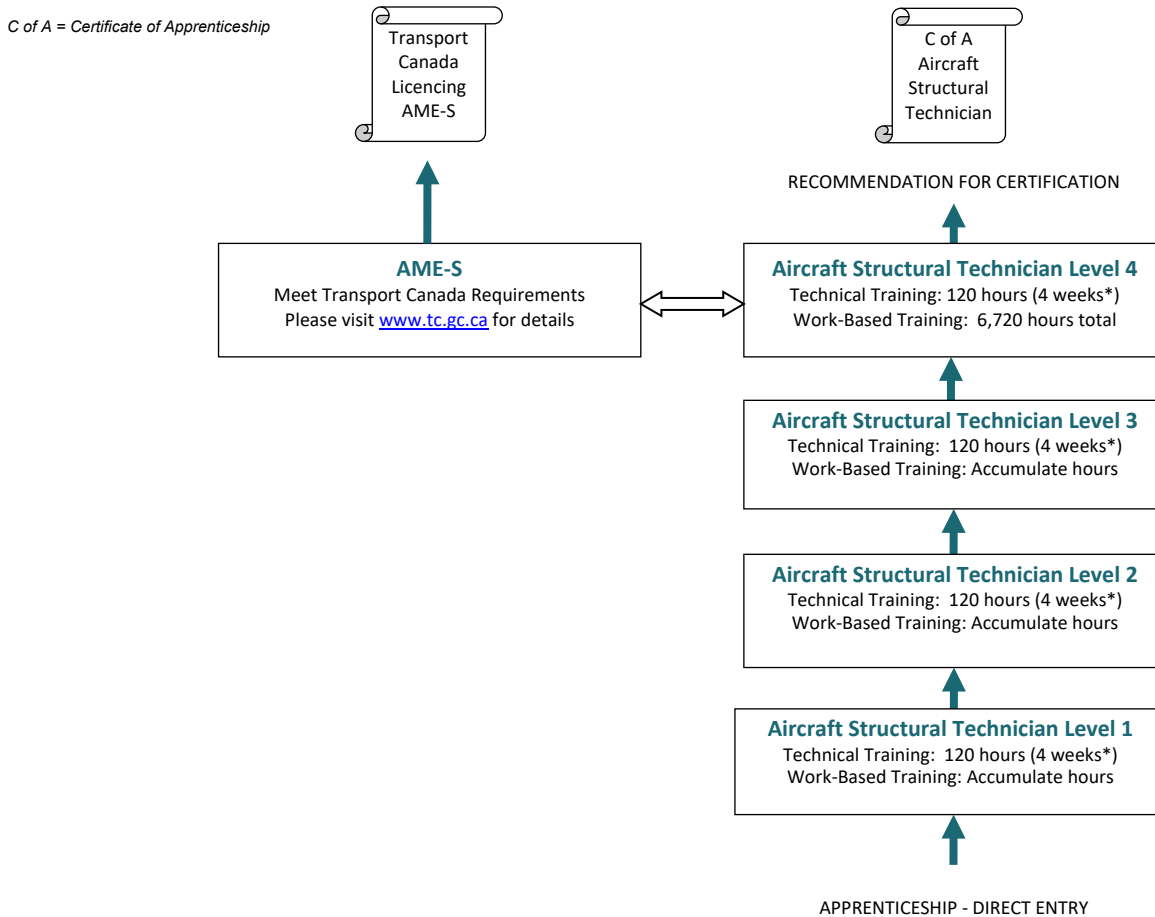
- Grade 12 or equivalent, including Math 12, English 12, Physics 12

### **SkilledTradesBC Registration**

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

**Apprenticeship Pathway**

This graphic provides an overview of the Aircraft Structural Technician apprenticeship pathway.



*\*Suggested duration based on 30-hour week*

**CROSS-PROGRAM CREDITS**

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

None

**Apprenticeship Program Standards**

**Credentials Awarded**

- Aircraft Structural Technician – Certificate of Apprenticeship

**SkilledTradesBC  
Registration Prerequisites**

- Agreement signed by the employer to sponsor the apprentice

**Completion Requirements** Certification as an Aircraft Structural Technician is awarded upon successful completion of:

<b>Requirement</b>	<b>Level of Achievement Required</b>
Technical Training	Minimum 70% in each level of technical training: <ul style="list-style-type: none"> <li>▪ Level 1: 120 hours (or 4 weeks*)</li> <li>▪ Level 2: 120 hours (or 4 weeks*)</li> <li>▪ Level 3: 120 hours (or 4 weeks*)</li> <li>▪ Level 4: 120 hours (or 4 weeks*)</li> </ul>
Work-Based Training	<ul style="list-style-type: none"> <li>▪ 6,720 hours</li> </ul>
Recommendation for Certification	<ul style="list-style-type: none"> <li>▪ Recommendation for certification signed by the Sponsor and an individual holding credentials eligible for sign-off authority</li> </ul>

**Program Duration**

Duration varies depending on how training is delivered, but the program generally takes 4 years to complete.

The technical training requirement is typically met through block-release training (full-time, at school) delivered by an SkilledTradesBC-approved training provider. It can also be met through approved alternative training models (e.g., distance education, online, part-time) and/or level challenge where these options are available.

**Sign-off Authority**

- Credentials eligible to sign-off on the Recommendation for Certification:
- Aircraft Structural Technician – Certificate of Qualification
  - Transport Canada Aircraft Maintenance Engineer “S” License
  - SkilledTradesBC-issued letter authorizing supervision and sign-off of apprentices in this occupation

**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

<b>Credential</b>	<b>Credit(s) Granted</b>
N/A	N/A

**Supporting Documents**

Aircraft Structural Technician Program Outline (2011) – Defines the full scope of knowledge and skills required to competently perform the occupation in BC. Available from the SkilledTradesBC website.

**Contacts**

SkilledTradesBC manages B.C.'s industry training and apprenticeship programs. Contact SkilledTradesBC 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:	<a href="mailto:customerservice@skilledtradesbc.ca">customerservice@skilledtradesbc.ca</a>
Website:	<a href="http://www.skilledtradesbc.ca">www.skilledtradesbc.ca</a>		

**Revision History**

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

Program Standards Approved:	March 2002
Updated:	March 2006
Updated:	December 2011

Program Profiles are updated regularly. Visit [www.skilledtradesbc.ca](http://www.skilledtradesbc.ca) for the most current version.