



Aircraft Maintenance Engineer Technician A Guide to Course Content

Aircraft Maintenance Engineer Technicians maintain, replace and repair all components of all types of aircraft; perform scheduled inspections; and check avionic systems.

Training Requirements: To graduate from each level of the apprenticeship program, an apprentice must successfully complete the required technical training and compile enough on-the-job experience to total at least 1800 hours each year. Total trade time required is 7200 hours and at least 4 years in the trade.

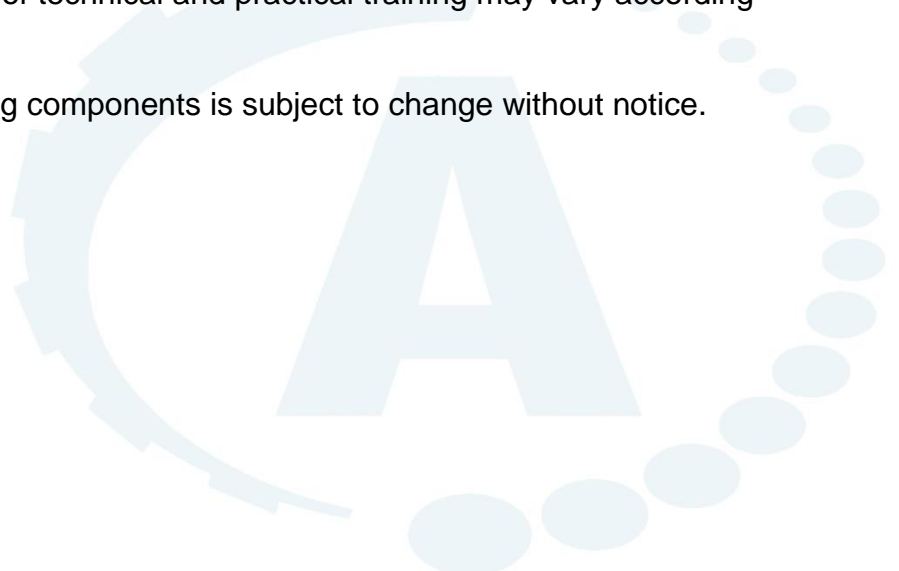
There are four levels of technical training delivered by Stevenson Aviation & Aerospace Training Centre, Red River College, Winnipeg and Southport, Manitoba:

- Level One: 9 weeks
- Level Two: 9 weeks
- Level Three: 9 weeks
- Level Four: 9 weeks

All individuals interested in indenturing in this trade must contact: Registrar, Apprenticeship Manitoba at (204) 945-4647 for information regarding registration and training.

The information contained in this document serves as a guide for employers and apprentices and briefly summarizes the training delivered at each level of apprenticeship training. An apprentice spends approximately 15% of the apprenticeship term in a technical training institute learning the technical and theoretical aspects of the trade. The hours and percentages of technical and practical training may vary according to class needs and progress.

The content of the technical training components is subject to change without notice.



Level One - 9 weeks

Ground Handling and Servicing

Aviation Mathematics and Physics

Tools and Equipment

Airframe Fuel Systems

Aircraft Hardware

Hydraulic and Pneumatic Systems

Landing Gear Systems

Structures/Assembly and Rigging

Rotary Wing Theory of Flight

Composites

Level Two - 9 weeks

Reciprocating Engines

Propellers

Aircraft Structural Materials

Wood and Fabric

Human Factors

Dynamic Drive Systems

Vibration Analysis

Bearings and Seals

Weight and Balance

Level Three - 9 weeks

Drawings

Metallic Structures

Maintenance Procedures

Turbine Engines

Environmental Systems

Level Four – Rotary Wing - 9 weeks

Canadian Aviation Regulations

Fire Protection Systems

Instruments

Avionics

Ice and Rain Protection

Electrical

Non-destructive Testing