

Provincial Scope Document

Aerospace Technology (Integrated) 2023

*Schedule: Tentatively scheduled for 19 April
2023 at the Tradex Center, Abbotsford, BC*

<i>Contest length</i>	<i>6.0 Hour</i>
Check In Time	8:30am
Contest Starts	9:00am
Coffee Break	10:30am
Program resumes	10:45am
Lunch	12:00pm
Program resumes	12:45pm
Coffee Break	14:00pm
Program resumes	14:15pm
Completion	16:00pm

The challenge project was designed to accommodate a Maximum of 6 contestants

Purpose of the Challenge:

To assess the contestants' skills and knowledge in performing basic aircraft maintenance procedures.

Skills & Knowledge to be tested:

Throughout the contest, student's evaluation in the following areas:

Troubleshoot basic aircraft electrical system
Perform maintenance on a RR250C20 engine
Complete magneto timing of a reciprocating engine

Contestants must demonstrate skills in the following areas:

Basic Aircraft Alternator System

Troubleshoot system, locating issues using simulator of a Light Aircraft Alternator charging system

Reciprocating Engine

Perform Magneto timing of a Reciprocating Engine.

RR250 Turbine Engine

Perform maintenance of RR250 engine as per worksheets

Supplied by the organization:

- **Alternator simulators**
- **RR250 engines**
- **Reciprocating engines**
- **Magneto timers**
- **Electric meters**
- **Manuals**

Contestant Clothing Tool Requirements:

Competitors are to be dressed in a clean and safe manner.

No jewelry on neck, fingers, hands or wrists.

Contestants to provide their own **CSA approved safety glasses, hearing protection, safety footwear** and calculator.

Safety Requirements:

Safety awareness/requirements will be maintained at the minimum industry standards at all times. **A contestant will not be allowed to compete without the safety equipment noted on this scope document.**

Judging Criteria:

3 Modules for 100%

Module #1 is worth 33%

Module #2 is worth 33%

Module #3 is worth 34%

Ties will be broken based on time.

Technical Committee:

Dale Martell - BC Technical Chair

dmartell@okanagan.bc.ca

David Henrikson - Judge/ BC Technical Chair
Deputy

Henriksondavid@gmail.com

Judges

TBA

The Gold Medal winner is eligible to contend at the Skills Canada National competition in Winnipeg, Manitoba, May 25/26 2023 as the Aerospace Representative from British Columbia

Skills Canada BC reserves the right to update contest information. Please check the website for changes.

The end of Provincial Scope Document