

# Provincial Scope Document

## *Aerospace Technology (Integrated) 2024*

*Schedule: Tentatively scheduled for 17 April  
2024 at the Tradex Center, Abbotsford, BC*

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

**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:*

**Perform Piston Aircraft Engine maintenance.**

**Perform Turbine engine maintenance.**

**Perform an electrical troubleshooting exercise.**

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:**

Parm Rai - BC Technical Chair

[Parm\\_rai@bcit.ca](mailto:Parm_rai@bcit.ca)

David Henrikson - Judge/ BC Technical Chair  
Deputy

[Henriksondavid@gmail.com](mailto:Henriksondavid@gmail.com)

Judges

TBA

**The Gold Medal winner is eligible to contend at the Skills Canada National competition in Quebec City May 30/31 2024 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**