



## CONTEST DESCRIPTION

<b>Competition Date</b>	Thursday, April 4 <sup>th</sup> 2024
<b>Competition location</b>	Holland College Waterfront Campus
<b>Trade Number</b>	53
<b>Trade Name</b>	Outdoor Power Equipment
<b>Level</b>	Secondary

### 1. INTRODUCTION

#### 1.1 Purpose of the Challenge.

To organize and reward the Outdoor Powered Equipment students who demonstrate achievement in skills and knowledge necessary to service today's outdoor powered equipment.

#### 1.2 Duration of contest.

6 Hours

#### 1.3 Skills and Knowledge to be tested.

- Skills and knowledge necessary to disassemble an air-cooled engine.
- Technical competence and safe workplace practices and procedures
- Routine maintenance
- Tool and Outdoor Powered Equipment engine parts identification
- General carburetor system component identification, diagnosis, and repair
- Electrical system component identification, diagnosis, and repair
- General knowledge of 4 stroke – cycle theory
- General knowledge of 2 stroke – cycle theory
- Proper use of service manuals
- Use of precision measuring tools (Metric and Imperial)
- Use of diagnostic equipment and digital multimeter (DVOM)

### 2. SKILLS FOR SUCCESS

In response to the evolving labour market and changing skill needs, the Government of Canada has launched the new Skills for Success (former Essential Skills) model defining nine key skills needed by Canadians to participate in work, in education and training, and in modern society more broadly. SCC is currently working with Employment and Social Development Canada (ESDC) to bring awareness of the importance of these skills that are crucial for success in Trade and Technology careers.



Part of this ongoing initiative requires the integration and identification of the Skills for Success in contest descriptions, projects, and project documents.

The following 9 skills have been identified and validated as key skills for success for the workplace in the legend below:

Numeracy, Communication, Collaboration, Adaptability, Reading, Writing, Problem Solving, Creativity and Innovation, Digital

### **3. EQUIPMENT, MATERIAL, CLOTHING**

**3.1** Each competitor is required to bring the following:

- Safety goggles/glasses (mandatory)
- CSA approved steel-toed work boots (mandatory)
- Coveralls and lab coat (recommended, not mandatory)

**3.2** Equipment and material provided by the competition site

Outdoor Powered Equipment engine components

All necessary materials, hand tools, diagnostic equipment, and shop equipment required to perform the tasks.

### **4. SAFETY REQUIREMENTS**

**4.1** List of required personal protective equipment(PPE) provided by competitors

Failure to comply with safety regulations will result in disqualification or removal of competitor from the competition.

Safety goggles/glasses, CSA approved safety steel-toed footwear, and appropriate work apparel must be always worn.

Note: Competitors will not be allowed to compete if the above items are not brought and used



## 5. ASSESSMENT

### 5.1 Point Breakdown

Knowledge exhibited by the level of completion of the written test.

Comprehension of written instructions and safe service procedures

Interpretation and performance of all tasks

Diagnostic abilities

Safe and clean work habits

Point Break Down (total 111)

44 Points: Multiple choice and short answer test.

67 Points: Practical exercise, disassembly, and assembly of a modern Briggs & Stratton horizontal four stroke engine.

## 6. ADDITIONAL INFORMATION

### 6.1 Tie (No ties are allowed)

In the event of a tie, time completed will be used to determine the winner.

### 6.2 Competition rules

Please refer to the competition rules for all general PSC information.

## 7. CONTACT INFORMATION

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