



# ptions RENFREW COUNTY SKILLS COMPETITION

## Scope of Small Engine

### Purpose of the challenge:

To test the skill and knowledge of each student with a Briggs & Stratton 9.00 ft/lbs torque (OHV) engine and to prepare each student for employment in industry. Competitors will be completely assembling a dismantled Briggs & Stratton Engine.

**Note:** This contest is limited to 12 individual competitors.

**Challenge:** Competitors will demonstrate their skills and knowledge by re-assembling a Briggs and Stratton 6.5hp OHV engine which has been fully dismantled.

- Fully assemble to the proper specifications – using logical step by step procedures
- Properly start and run the engine including governor and idle settings
- Demonstrate a basic knowledge of 2 and 4 stroke engines
- Complete a short written quiz.

**\*\* No communication with teacher advisor or visiting students during the competition. All questions to be directed to the judges.**

### Equipment and Materials:

<u>Supplied by Competitor:</u>	<u>Supplied by Committee:</u>
<ul style="list-style-type: none"> <li>☐ Basic tool kit (metric and imperial) and multimeter</li> <li>☐ Safety glasses</li> <li>☐ Shop coat or coverall</li> <li>☐ Work boots preferred</li> <li>☐ Writing utensils (pen/pencil)</li> </ul>	<ul style="list-style-type: none"> <li>☐ Briggs &amp; Stratton (OHV) engines</li> <li>☐ Specific Briggs &amp; Stratton Manual – for engine type</li> <li>☐ Preliminary service information</li> <li>☐ Specialized tools</li> <li>☐ Quiz</li> </ul>

### Time Table:

<b>8:00</b>	Registration – Tool kit inspection – <b>Rules</b> – <b>No communication with teacher advisors during the competition. All questions to be directed to the person - in - charge of the event.</b>
<b>8:30 – 9:15</b>	Students will work on Written Quiz
<b>9:15 – 11:00</b>	Engine Assembly
<b>11:00 - 11:30</b>	Lunch
<b>11:30 – 1:30</b>	Successfully complete work on Engine Assembly including running test.
<b>1:30 – 2:00</b>	Judging and Competitor clean up
<b>2:30</b>	Awards Ceremony

### General Skills and Knowledge to be tested:

- Demonstration of safe work competence 10%
- Tool handling and technical competence 50%
- Use of repair manuals 10%
- General knowledge of 2 and 4 cycle 30%

**Judging Criteria: Total Possible score is 100%.**