



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 and dismantling a 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
- Use the Factory Service Manual to list specifications for the specific engine model type
- 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"> ➤ Basic tool kit (metric and imperial) and multimeter ➤ Safety glasses ➤ Shop coat or coverall ➤ Work boots preferred ➤ Writing utensils (pen/pencil) 	<ul style="list-style-type: none"> ➤ Briggs & Stratton (OHV) engines ➤ Specific Briggs & Stratton Manual – for engine type ➤ Preliminary service information ➤ Specialized tools ➤ Quiz

Time Table:

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

General Skills and Knowledge to be tested:

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| • 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%.