



2019 Provincial Skills Competition, Post Secondary Level

Purpose of the Challenge

To test each students' skill and knowledge in the areas of inspection, measurement, maintenance and repair of small engines, motorcycles and recreational vehicles. Prepare each student for employment in the industry.

Duration of the Challenge

- 5 Hours

Skills and Knowledge to be Tested

- Theory 20%
- Practical 80%

(All phases of measurement will deal exclusively with metric only).

Contest Description

Students will be competing by applying their skills & knowledge in the following areas

- General knowledge of 4 Cycle Engine theory
- General knowledge of 2 Cycle Engine theory
- General theoretical knowledge of a CVT transmission
- General theoretical knowledge of the ignition, charging, and lighting systems of recreational vehicles
- Use of repair manuals
- Tool handling and recognition
- Technical competence and safe work practice/procedures
- Demonstrate the skill and knowledge involved with the Air/Liquid cooled engine
- Disassemble and reassemble engines
- Carburetor theory, parts identification, measuring and adjustments
- Electrical Diagnosis

Equipment and material provided on site:

- All necessary equipment and engines
- All necessary hand tools and specialty

Equipment and material provided by the competitor:

- None

Required clothing (Provided by competitor):

- Clean unmarked lab coat or coveralls
- Safety Glasses, CSA-Approved & Non-Tinted
- Safety Boots, CSA-Approved steel-toed & ankle covering

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

- No additional PPE will be supplied

Assessment

- Point Break-Down /100%
- Written Test 20% (note: tie breaker in event of tie)
- Workstations 80%

Additional Information

- Tie (No ties allowed)
- A tie-breaker situation will be decided by #1 highest theory test score #2 highest engine lab score.

Competition Time Line

- 8:30 – 8:45 am Registration
- 8:45 – 9:00 am Greetings and Competition Orientation
- 9:00 – 9:45 am Written Test
- 10:00 – 12:00 pm Activity by Station
- 12:00 to 1:00 pm Lunch
- 1:00 – 3:00 pm Activity by Station
- 3:00 – 3:45 pm Evaluation
- 4:00 pm (approx.) Awards

Committee Members

- Marcie Ladubec mladubec@bcit.ca
- Michael Charbula mcharbula@bcit.ca
- Eric Fry efry@bcit.ca

