

Rainbow District School Board Skills Competition Small Powered Equipment Scope 2010

Technical Chair:

PURPOSE OF THE CONTEST:

To test, evaluate and educate competitors in the necessary skills needed in today's world of small powered equipment.

SKILLS AND KNOWLEDGE TO BE TESTED:

Competitors must be able to disassemble an engine, measure and identify internal components, make common adjustments and re-assemble engine to specifications of manual. The engine is 6.5 HP, 4 Stroke, Powerfist/Champion (Honda Clone) with horizontal shaft.

Theory:

- Fundamentals of the four stroke internal combustion engine
- Parts of a 4-stroke engine

Practical:

- Teardown
- Identification of parts
- Measurement
- Tool Use
- Assembly
- Troubleshooting

JUDGING CRITERIA:

Multiple Choice Test (40 questions)	20
Engine Disassembly	10
Measurements	20
Parts Identification	10
Engine Reassembly and clean-up	30
Engine Troubleshooting	10
Total	100

EQUIPMENT and MATERIALS

Supplied by the host school:

- spark plug gap tool
- vernier calipers
- micrometer
- compression testers
- torque wrench
- puller
- impact gun
- safety glasses

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EQUIPMENT and MATERIALS

Supplied by Competitor:

- Socket set (metric)
- Allen wrenches
- Screwdrivers
- Pliers
- Gloves (if desired)
- Piston ring compressor
- Torque wrench
- Feeler Gauges
- Any other tools you feel might be useful

CLOTHING REQUIREMENTS:

Competitors are to be dressed in a clean and appropriate manner.

Competitors are not permitted to wear clothing with logos or printing. The exception to this rule is the logo of the school or school board that the competitor is representing.

SAFETY:

Safety is a priority at the competition. At the discretion of the judges any competitor may be removed from the competition site for not having the proper safety equipment and/or not acting in a safe manner.

You must wear appropriate safety PPE (personal protective equipment) while in the shop.

COMPETITION AGENDA:

March 26th, 2010 Lo-Ellen Park SS. Loaches Rd. Sudbury

8:45 am to 9:00 am	Registration: Lo-Ellen Park Auto shop.
9:00 am to 11:30 am	Competition
11:30 am to 12:00 pm	Lunch Break (Pizza Provided)
12:00 pm to 1:30 pm	Competition
1: 30pm to 1:45 pm	Judging
1:45 pm	Awards Presentation