

Skills Ontario Competition Robot Inspection Sheet

Instructions <ul style="list-style-type: none"> Return passed and completed inspection forms to the Judge's Area. Failed inspections should be referred immediately to the technical chair to determine next steps. 	
Team Number:	School Board:

Volume Calculations

Tele-OP Volume Calculation (LxWxH)	Autonomous Volume Calculation (LxWxH)

- Total tele-op Volume is less than 4ft³ (6912in³)
- Tele-Op bots always fit within a 30" square in the horizontal plane
- Total Autonomous Volume is less than 1ft³ (1728in³)
- Autonomous bot always fits within a 24" cube.

Electrical:

- Mandatory Wiring Diagram provided.
- All batteries are sealed commercial batteries in good physical condition
- Batteries wired in series should be the same amp hour rating (ex. both 1500 mAh) and batteries in parallel are of same voltage (ex. both 12 volts).
- Batteries securely mounted
- Total voltage in any individual circuit does not exceed 24V
- No circuit **branch** exceeds 240W (Voltage x Fuse Current Rating, easily accessible)
- All circuits have a fuse or breaker (breakers must have **DC rating**) and all Fuses/ Breakers must be readily accessible.
- No explosives/combustibles
- No lasers

Pneumatic

- Mandatory Pressure System Circuit Diagram provided.
- No Competitor-made or modified air pressure hardware being used.
- Only commercially manufactured Pressure Tanks (cylinders) can be used.
- Pressure indicator
- Pressure in tanks does not exceed 100 psi

- Over-pressure safety valve
- Pressure tanks and related gauges and controls are shielded from damage due to collisions.

Function

- Robot can be turned off with a single motion.
- Demonstrate robot. All functions are safe and in compliance with the scope.
- Snowballs are the only way a team's entry can interact with their opponents.
- Passes the dry fire shooting test. (Ball placed on the center wall doesn't get knocked off)

Pass

Fail

Robot Evaluator Signature:

Team Representative Signature:

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