

Skills Ontario Competition Robot Inspection Sheet

Instructions

- Teams will be called up to the sizing area beside the court for part 1 of the inspection, then move onto the court for part 2.
- Return passed and completed inspection sheets to the Judge's Area.
- Failed inspections should be referred immediately to the technical chair to determine next steps.

Team Number:

School Board:

Part 1: Specification Inspection

Volume Calculations:

Volume Calculation (LxWxH)

- Total Volume is less than 5ft^3 (8640in^3)
- Entire entry fits in the starting zone.

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 256W (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.

Specifications Robot Evaluator Signature:

Team Representative Signature:

--	--

Part 2: Function Inspection

- Robots can be turned off with a single motion.
- Demonstrate robot. All functions are safe and in compliance with the scope.
- Robots never reach over any walls during regular operation. (Break the inside vertical plane)
- Autonomous bots have a 10s delay.

Pass

Fail

Comments:

Function Robot Evaluator Signature:

Team Representative Signature:

--	--