

Skills Ontario 2025 Robotics Q and A Document

Updated: December 5th

A. General

A.1- What is this document?

This document is a supplement to the competition scope that answers specific questions teams may have about ambiguities in the scope. This document supersedes the current version of the scope found on www.skillsontario.com.

A.2 – What is the Mail list?

The mail list is the fastest way to receive information about the competition. It is recommended that at least 1 team member or coach should be receiving email updates. Email dan.kurz@dsb1.ca to be added to the mail list.

B. The Court

C. Game Play

C1: Can teams collect balls and then dump them all over just before the buzzer?

Yes.

C2: Can teams block their opponent's shots.

Yes, blocking is permitted. The extent of the blocking is limited by the in-game size restrictions and the walls.

C3: Does “reaching over walls” in 3.2.9 include breaking the interior vertical plane of a wall, but not fully crossing it?

Yes, no part of a team's entry may break the vertical plane formed by the inside (or outside) edges of any walls.

C4: What happens if a snowfort falls over after the buzzer?

The height of the snowfort will be measured after the end-game buzzer, at its end-game stable height.

The end-game stable height will be the height measured 5 seconds after all legal game pieces have come to rest.

C5: What happens if a snowball is thrown after the end-game buzzer?

This is an illegally thrown snowball, any scored items that it affects will be replaced, and the snowball will be returned to its last legal position. Teams will also be given a warning.

Note for Autonomous Robots: They should be turned off immediately after the buzzer by a non-driving team member.

D. Robot Design

D1: Rule 5.1.3.2 says "Snowballs are the only way a team can interact with their opponent". How will robots be tested during robot inspection to ensure that they are only interacting with the other team using snowballs?

A snowball will be placed on top the opposite "autonomous-tele-op" barrier. The judge will instruct the team to perform various actions from various positions and orientations that could include dry firing, movement or activating specific systems. If the snowball is knocked off the wall, the test will be considered failed and will not have passed inspection.

Note: Depending on the design of the robot, other tests may be performed by the judge to ensure teams are in compliance with rule 5.1.3.2.

D2. All of the size restrictions are confusing. Can you please clarify?

There are 2 sets of volume restrictions for the tele-op and autonomous entries this year:

1. Starting Configuration Volume Restrictions:

- a. *The entire Tele-Op entry must be less than 4 cubic feet. Just like other years.*
 - b. **New:** *The autonomous bots get their own volume and must be less than 1 cubic foot so $12 \times 12 \times 12 = 1728$ cubic inches.*
2. *In-Game Volume Restrictions (After the match starts):*
Note: These rules are in place to restrict excessive blocking.
- a. *Individual tele-op bots cannot expand beyond a 30" square in the horizontal plane; but they have no height restrictions. This will be tested during inspection by placing individual bots in the starting area and then expanding to their maximum size. Bots must fit within the vertical planes formed by the outside edge of the 30x30 square.*
 - b. *Autonomous bots must fit within a 24-inch cube. In other words: they can't be more than 24" wide, tall or long.*

E. The Skills Ontario Competition