

**Skills Canada Mobile Robotics
Toronto 2025
Competitor Questions and Responses Document**

March

March.Q1:

Q: Are robots permitted to reach over the autonomous door frame?

R: No. It is treated like a wall reaching up to the ceiling.

March.Q2:

Q: What happens if a piece "accidentally" falls (or bounces or something) over the autonomous zone wall and knocks over one of the stranded workers in the safe room? Do teams lose the point for that, or do we discount that as the piece came over the wall?

▪ End state of the game is what is scored. See 3.3.5, 3.3.6

R: As per 3.3.4: All scoring will take place at the end of each match. In line with sections 3.3.5 and 3.3.6, all scoring will be based on the end of game state, so if a team knocks over their stranded workers, even by a piece that came over the wall, they will lose the points for the standing worker.

March.Q3:

Q: Are teams permitted to dump debris over the fallen beam (while it is still in the door frame and standing)?

R: Yes, teams are permitted to dump debris over (or under) the fallen beam while it is still in the door frame.

March.Q4:

Q: Is it possible for a prebuilt robot to use AI while it is offline and not connected to the Internet, and in the competition? Students will not access the AI and use it as a tool, only the Robot will execute the AI as code.

▪ Yes, as long as it is not accessing anything off robot.

R: As long as the robot is not accessing anything that is not on the robot, this is permitted. If a robot is accessing any off-robot device, this is not permitted.

March.Q5:

Q: Can you have buttons on the auto bot that can be used to indicate the location of the fan?
Button could be “start buttons” pressed by the team or activated by tele-op bots.

R: As per 1.2.6.1 and Jan.Q3, tele-op robots are permitted to interact with the autonomous robot to initiate an active response, so they would be permitted to press a button (or similar).

As per 1.2.2, the only interaction between a competitor and the autonomous robot is to initiate the robot, which can be done by pressing a button. This includes the use of multiple buttons, all of which can be used to start a specific sequence.

Both situations in the question are permitted.

March.Q6:

Q: What colour will the tape be?

R: White duct tape with black electrical tape.

March.Q7:

Q: If an autonomous robot isn't being used in the main game (and just in the on-site game), does it count towards the overall volume?

R: As per 8.3.1, a team's *entire entry*, including up to 2 tele-operated robot(s) and 1 independent autonomous robot, must not exceed an overall size of 5 cubic feet (8640 cubic inches) at the start of each game.. As per 11.1 the autonomous robot used in the “On-site” challenge must be the same autonomous robot used in the “Disaster Rescue” Game. As per 11.2 the autonomous robot must meet the same restrictions as the “Disaster Rescue” game.

Therefore, the autonomous robot must be included in the “Start of game” restrictions and orientation.

March.Q8:

Q: When installing the transformer doors, do the barrel bolts need to be fully extended to be considered installed?

R: No. As long as a portion of the barrel covers a portion of the board.

March.Q9:

Q: Can autonomous robots be started remotely? (For example REV systems).

R: Yes, they are permitted to be initiated remotely.

March.Q10:

Q: Are there pre-approved controllers?

R: No, tele-op controllers are determined by the choice of the teams and competitors, in accordance with section 8.7. However, teams are responsible for any and all interference that might occur.