



Bull Dozer

Official 2012 Rules and Participant Guidelines

Level: Intermediate

Number of robots: 1 per participant

Robot Dimensions: At the start of a match the robot must fit into a square box of 8 inches to a side, with no height limitation. Parts of the robot may extend outside this region after a match has started.

Robot Control: Autonomous

Number of robots competing per round: One

Time Limit: 2 minute maximum

Robot Weight: Any

Number of Motors: Maximum of Two

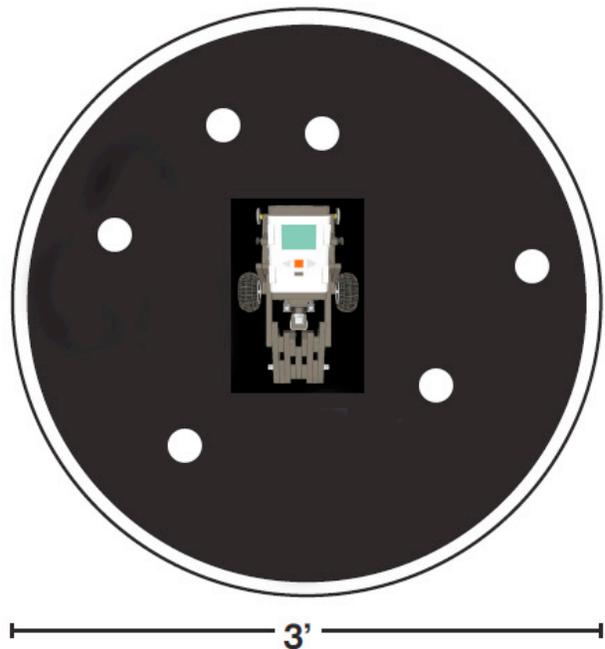
Summary:

The objective of this challenge is to “bull doze” six 8 ounce soda cans filled with sand from the ring in the shortest amount of time.

Event Rules:

1. Six 8 ounce soda cans filled completely with sand are randomly placed on the playing field at the beginning of each match by the judge.
2. The judge places a competitor's robot on the edge of the arena circle with the light sensor in a black arena space.
3. A round is 2 minutes long. Timing begins when the judge says “Go.”
4. Robots can only be touched to start a competitor's bull dozer program at the beginning of a round; contestants cannot touch their robots or the soda cans during the round.
5. Nothing can be added or removed from the robot during a round.
6. The robot must stay inside the ring for the entire round. If at any time the robot falls out of the ring it is disqualified.

Playing field: The Bull Dozer ring has a diameter of 3 feet (about 75 cm), and is raised 2 inches (about 5cm) above the floor. The color of the ring is black, with a 1” wide white edge boundary. The six cans are 8 ounces soda cans completely filled with sand. The cans are covered with black construction paper or painted black.



Scoring:

The team that removes all the objects in the shortest amount of time wins.