

Driving Arena (*Bumper Bots*)

DESCRIPTION: Using 3 robots per team, participants will work together to place balls into scoring zones. Two bots from each team will be “offense” and 1 bot on “defense”, located inside the opposing team’s scoring zone. Each team will have its own scoring zone which is constructed using 1’x4’ wood in a 4’ by 4’ square. Holes of various sizes and shapes will be cut into the wood to allow balls to pass through. Balls may also pass over the walls. There will be 45 white whiffle balls, 10 orange whiffle balls, and 2 yellow foam balls. All balls are golf ball sized.

Play begins with each team having two CEENBoTs in their designated starting area and one CEENBoT inside the opposing team’s scoring zone. Balls will be released in the center of the arena as time begins. Play runs for 2 minutes with CEENBoTs moving balls into and out of scoring zones. At the end of the two-minute period all bots must freeze and balls will be counted for scoring. Any balls that leave the playing arena will be removed from play until the end of the match and not scored. All balls inside the Red scoring area are scored for the Red team, and all balls inside the Blue scoring area are scored for the Blue team. So you do NOT want yellow balls inside your own scoring zone.

White balls; 1 point each
Orange balls; 5 points each
Yellow balls; -7 points each (negative points)

Rules

1. Participants will have 2 minutes to move balls into or out of scoring areas.
2. Drivers must stay on their own side of the arena next to their start zone.
3. Each team will start with 2 bots in their zone and 1 in the other team's scoring area.
4. Incidental bumping may occur but intentional bumping is prohibited. CEENBoTs may not ram into other Bots, or pin other bots with the intention of holding them in place.
5. In the case of a tie, a new 30 second round will be played on a reset field.

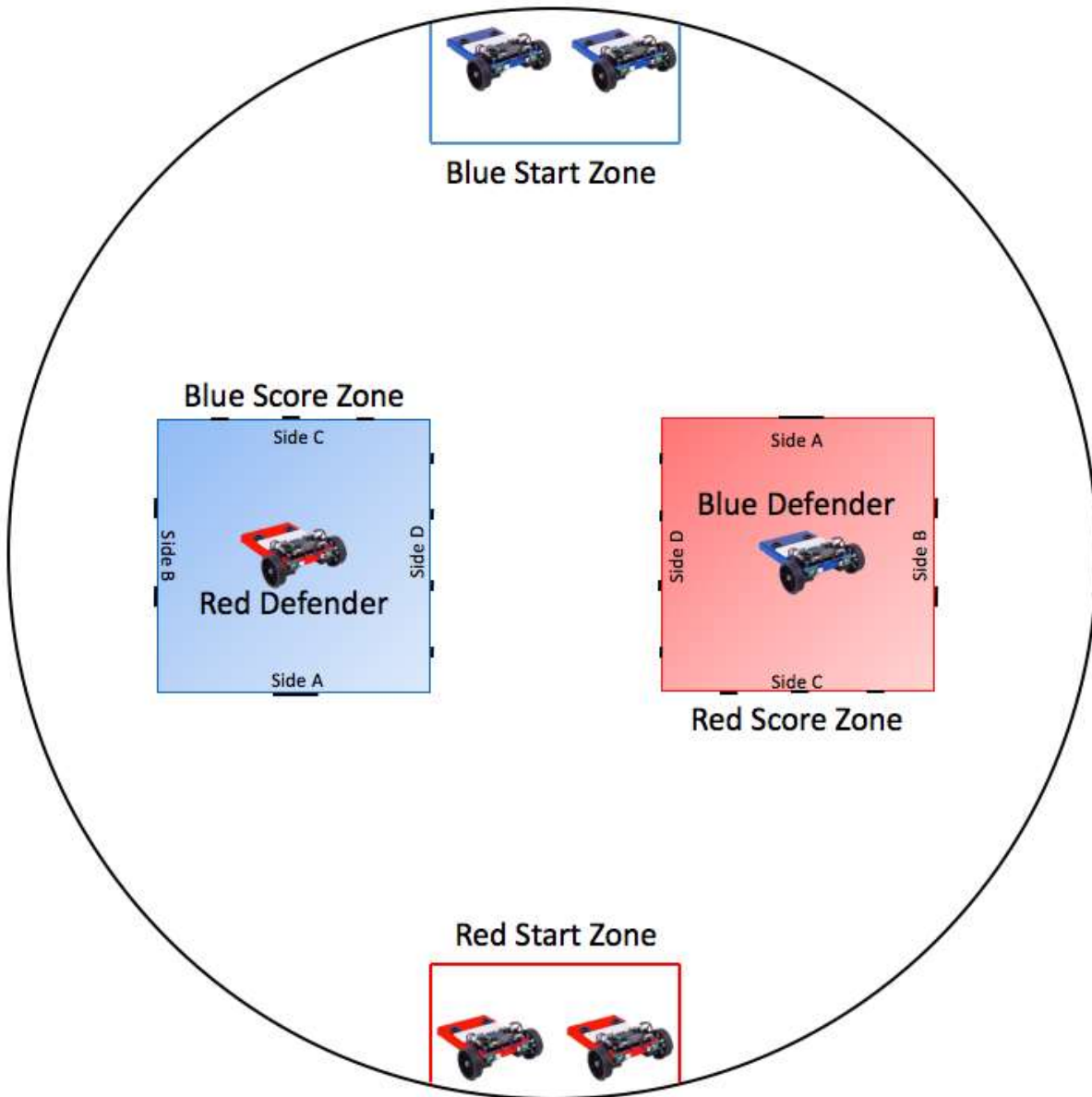
Field Conditions (see next page for graphic):

Start Zones will be approximately 2’x4’ and marked with colored tape

Scoring zones will be 4’ x 4’ and built from 1’x4’ wood. Holes in the wood are as follows:

- Side A: 1, 8” wide hole
- Side B: 2, 4” wide holes
- Side C: 3, 3” wide holes
- Side D: 4, 2” wide holes

Field Conditions:



Please note: Robots cannot have in use any modification that can damage equipment, other robots, and/or the playing field.

Judges rules are final and not subject to review.