

ROBOT TOUR C - 2023 TRIAL



TEAM NUMBER C TEAM NAME _____

STUDENT NAMES _____

FINAL SCORE _____

INSTRUCTIONS: This Checklist provides a list of requirements to aid in inspection and running of the event.

| Event Parameters | Circle either 'Pass' or 'Fail' after verifying each rule is met. | | | |
|-------------------------|---|---|------|------|
| 2.a. Impounded | Impounded items: <input type="checkbox"/> Robot <input type="checkbox"/> USB Flash Drive, if any <input type="checkbox"/> Spare parts, if any | 1 | Pass | Fail |
| 3.c. Lithium/Lead | <input type="checkbox"/> Batteries DO NOT contain lithium or lead Must Not Continue if 'Fail'. All runs are Failed Runs | 2 | Pass | Fail |
| Practice/Design Log | Required: <input type="checkbox"/> Target Time <input type="checkbox"/> Run Time <input type="checkbox"/> Robot Distance from Target <input type="checkbox"/> Gates, if used | | | |
| 4.a. Practice Log | <input type="checkbox"/> 5th Parameter (path taken, robot speed, logic used, ...) <input type="checkbox"/> At least 10 practice runs recorded | 3 | Pass | Fail |
| 4.a. Practice Impounded | <input type="checkbox"/> Practice Log Impounded <input type="checkbox"/> Front Cover with team name & number | 4 | Pass | Fail |
| 4.b. Design Log | Required: <input type="checkbox"/> Materials Used <input type="checkbox"/> Labeled Diagram <input type="checkbox"/> Information about 3D Printer, CNC, Laser Cutter, ... | 5 | Pass | Fail |
| 4.b. Design Impounded | <input type="checkbox"/> Design Log Impounded <input type="checkbox"/> Front Cover with team name & number | 6 | Pass | Fail |

| Construction Parameters | Verify each rule is met per run. Circle either 'Pass' or 'Fail' to right for each run | | | |
|-------------------------|---|--|------|------|
| 3.b. Energy Source | All of the electrical energy supplied by 'AA' batteries <input type="checkbox"/> 8 or less 'AA' Batteries used | | Pass | Fail |
| 3.e. Dowel Rod | Approx 1/4" wooden round <input type="checkbox"/> Approx perpendicular <input type="checkbox"/> Bottom less than 1cm above floor <input type="checkbox"/> No Part of robot extending > 0.5cm beyond the dowel <input type="checkbox"/> Top greater than 10cm above floor | | Pass | Fail |
| 3.f. Robot Size | Robot in ready-to-run configuration within 30cm by 30cm box | | Pass | Fail |
| 3.h. Design Questions | <input type="checkbox"/> Can answer design questions <input type="checkbox"/> Device built by Team (at least 1 of 15 member team) | | Pass | Fail |

DOES THE ROBOT HAVE A CONSTRUCTION VIOLATION ABOVE? (CIRCLE 'FAIL' IF ANY FAILS ABOVE) 7 Pass Fail

| | | | | |
|------------------------|---|---|------|------|
| 6.d.i. Setup Time | <input type="checkbox"/> Competitors DID NOT test Robot movements during Setup Time [200 Point Penalty] | 8 | Pass | Fail |
| 6.n. Obstacles Removed | Circle "Yes" if Competitors choose to run without Obstacles before moving to the track [35 Points Added] | 9 | No | Yes |

| Run Attempts | Max of 2 Successful or 3 Failed Runs | #1 | #2 | #3 | #4 |
|--|--------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 6.f. Successful Run (Maximum of 2) | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Failed Run (Maximum of 3) | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.f. Competitors request Failed Run | | | | | |
| 6.i. Competitors test robot not on event track | | | | | |
| 6.o.i. Run exceeded twice Target Time | | | | | |
| 6.o.ii. Robot exited the track area | | | | | |
| 6.o.iii. Time and/or Distance cannot be measured | | | | | |

6.m. Gate Zone Bonus Zone entered, dowel first. Record Letter _____

| Construction Parameters | INSTRUCTIONS: Only complete below for Successful Runs. Remains Blank for Failed Runs. | RUN #1 | RUN #2 |
|-------------------------|--|--------|--------|
| 3.g. Robot Parts | <input type="checkbox"/> All parts move as a whole <input type="checkbox"/> No parts fell off robot <input type="checkbox"/> No additional parts contacted ground after start | 10 | 16 |

| The Competition | Verify each rule is met per run. Circle either 'Pass' or 'Fail' to right for each run | | |
|---------------------|--|------|------|
| 6.b. Outside Help | Competitors remained in area after starting <input type="checkbox"/> No outside assistance | Pass | Fail |
| 6.e. AC Power | AC outlet power NOT used | Pass | Fail |
| 6.g. Start Point | Measurement Point (Dowel) over Start Point at start of run Robot remains at starting point without being touched | Pass | Fail |
| 6.j. Cleaning | Substances not applied to vehicle without ES prior approval Substances did not damage or left residue on the track and track surface remained dry | Pass | Fail |
| 6.k. Pencil/Touched | Pencil used to start <input type="checkbox"/> Starting motion vertical Robot was not pushed or held <input type="checkbox"/> Competitors did not touch robot before allowed | Pass | Fail |

DOES THE ROBOT HAVE A COMPETITION VIOLATION ABOVE? (CIRCLE 'FAIL' IF ANY FAILS ABOVE) 11 Pass Fail 17 Pass Fail

| | | | | |
|----------------------|---|----|------|------|
| 6.n. Contact Penalty | <input type="checkbox"/> Robot did not make contact with any of the 2x4 Obstacles [50 Point Penalty] | 12 | Pass | Fail |
|----------------------|---|----|------|------|

| Run Parameters | | | |
|-------------------|---|---------------|---------|
| 7.c. Run Time | Run Time starts when the Vehicle begins to move and ends when the Vehicle comes to a complete stop; recoils are considered part of the Run Time. If the Vehicle does not move within 3 seconds after coming to a stop, the run is considered to have ended; the 3 seconds are not included in the Run Time. Any action occurring after that time does not count as part of the run. | 13 | 19 |
| 7.d. Distance | Distance (point to point) from the Measurement Point to the Target Point measured to the nearest 0.1 cm | 14 | 20 |
| 7.e. Gate Bonus | A Gate Bonus is awarded for each Gate crossed in any order. Each Gate may only be counted once. [-15 Points Per Gate Zone] | # of Gates 15 | 21 |
| 7.g.i. Track Time | Recorded Track Time Maximum of 8 minutes (Tie Breaker Only) | 22 | Mins 23 |
| General Rule | Disqualified (notify the team and their coach as soon as possible) -- Circle 'Pass' if no issues Reason _____ | 24 | Pass |

Lane Boss _____ [Competitors] Acknowledgement of Recorded Values _____ 20230226