

CODERUSH 2026

■ LINE-ON-DECK · LFR OFFICIAL RULEBOOK ■

[01 / OBJECTIVE OF THE GAME]

- The robot must **autonomously follow a designated line** on the course.
- Goal: stay on the line for as long as possible and complete the course in the **shortest time**.

[02 / ROBOT SPECIFICATIONS]

- Dimensions: Robot must fit within a **20 × 20 cm boundary** at the start.
- Weight Limit: Maximum **1.5 kg**.
- Sensors: Must use **line-tracking sensors** (e.g., IR or color sensors). Any number allowed.
- Power Source: Batteries up to **9V** only.
- Controller: Robot must be **fully autonomous**. Manual intervention = disqualification.
- Construction: Any materials allowed, provided they do **not damage the track or environment**.

[03 / TRACK RULES]

- Minimum **3 curves** will be present on the map.
- **10 minutes** given for calibration and testing before the race.
- Line width: **1.5 inches**.
- Sensor-based shortcuts are **allowed**.
- The line may or may not be **multicolored**.
- Whoever finishes quicker **wins**.
- ■ Any cheating results in **immediate disqualification** without further notice.

[04 / IMPORTANT POINTS]

- The robot must follow the line and **complete the full track**.
- The track layout will be **revealed before the competition**.
- There will be **checkpoints** along the course.
- The robot completing the track in the **shortest time wins**.
- If no robot completes the track, the one passing the **most checkpoints wins**.

[05 / MATCH FORMAT]

- **Time Limit:** Maximum **3 minutes** per attempt. If unfinished, distance is measured.
- **Attempts:** Each team gets **one attempt**. Fastest attempt is the official time.
- **Technical fault at start:** A re-attempt may be granted **only at judges' discretion**.
- **Start Position:** Robots start from a designated point on a **start signal**, autonomously.

[06 / SCORING CRITERIA]

- **Time Taken:** Fastest completion time yields the highest score.
- **Track Completion:** Robots that fully complete the track are ranked higher.
- **Distance Travelled:** If no robot finishes, fastest distance coverage ranks higher.
- **Bonus Points:** May be awarded for navigating specific obstacles or difficult sections.

[07 / FOULS & DISQUALIFICATION]

- **Off Track:** Robot has 5 seconds to self-correct after leaving the line. Failure ends the run.
- **Interference:** No manual adjustments during the run – automatic disqualification.
- **Robot Damage:** Robots must not damage the track or interfere with another robot's run.
- **Rule Violations:** Non-compliance with size, weight, or power rules = disqualification.

[08 / TEAM & CONDUCT GUIDELINES]

- Each team may have up to **3 members**.
- **Judges' decisions are final.** All participants must comply.
- All participants must ensure **safety, fair play**, and adherence to competition guidelines.

Rules may be adjusted based on space, resources, and event requirements.
Contact the organizing committee for any clarifications.

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