

Line and Lego line follower robot competition rules

1 Size and Weight Limits

Dimensional and weight limits for robots shall be strictly enforced. Robots must have passed inspection prior to competing.

Class	Length	Width
Line follower robot	25 cm	25 cm
Lego line follower robot	25 cm	25 cm

2 Course Time

Time is measured from the time the robot crosses the starting line until the time it crosses the finish line. A robot is deemed to have crossed the line when the forward most wheel, track, or leg of the robot contacts or crosses over the line.

3 Time Limit

A maximum of 3 minutes is allowed for a robot to complete the course. A robot that cannot complete the course in the allotted time shall be disqualified.

4 Timekeeping

Time shall be measured by an electronic gate system or by a judge with a stopwatch, based on the availability of equipment. In either case the recorded time shall be final.

5 Autonomous Control

Once a robot has crossed the starting line it must remain fully autonomous, or it will be disqualified.

6 Course Rules

Every line follower robot must pass course **at least 1 time and at most 3 times**. Referee must choose best result. A robot that wanders off of the arena surface **will lose one attempt**. A robot shall be deemed to have left the arena when any wheel, leg, or track has moved completely off the arena surface.

7 Losing the Line

Any robot that loses the line course (but not wanders off of the arena surface) must reacquire the line at the point where it was lost, or at any earlier (e.g. already traversed) point (autonomous). Otherwise, robot will lose one attempt

8 Course Specifications

The line following course shall traverse a **black paper rectangle**, 180 cm wide and 275 cm long. **The line shall be white** and 1.5-2.5 cm wide.

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