



**S.T.E.A.M.**  
Learning Centre

**HongQin Sdn. Bhd.** (Co. No. 802399-M)

**HQ Office :** 12-1, Street Wing, **Sunsuria Avenue**, Persiaran Mahogani  
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Robotclub Malaysia

eRobotclub

**Northern Branch :** 7A, Tingkat Mawar, Taman Mawar, Jalan Raja Uda, 12300 Butterworth  
Pulau Pinang

eRobotclub Butterworth

V1.6 13/8/2021

# COMPETITION RULES

## STEAM CUP MALAYSIA COMPETITION ONLINE

### 1. Registration

- 1.1. This competition is opened to citizens or non-citizens residing in Malaysia.
- 1.2. This competition is for individual entries only.
- 1.3. Registration can be made online at the website [www.steamcupmalaysia.org.my](http://www.steamcupmalaysia.org.my) and the closing date for the registration is **23 June 2021, at 5:00 p.m.**
- 1.4. The registration fee is stated below:

- Individual registration without timer & track set (school-based / center-based) : **RM 30.00**
- Timer & track set without registration (school-based / center-based) : **RM 150.00**
  - One set of Official Automated Timer
  - One set of Official Race Track
  - Shipping cost via Pos Malaysia

Payment can be made via online banking or bank-in as stated below:

<b>Bank</b>	<b>: AmBank Berhad</b>
<b>Account Name</b>	<b>: HongQin Sdn Bhd</b>
<b>Account. No</b>	<b>: 237-201-200217-5</b>

- 1.6. The competition may be cancelled or postponed if the entry quota, which is 32 entries is not reached (at the discretion of the organizer) and the registration fee will be refunded.
- 1.7. The registration fee will not be refunded to individual who withdraw after the registration closing date.

### 2. Category

- 2.1. There are two categories in this competition:
  - Category 1: 7 to 12 years old (Robotis Dream II)**
  - Category 2: 13 to 17 years old (Robotis Dream II)**



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### 3. Competition

- 3.1. Every participant **MUST** use the official timer set and the official race track. (The Timer and track set can be used in school, center or purchased your own set from the organizer.)
- 3.2. After receiving the sets, you can start the trial (training) by using your line follower robot.
- 3.3. There is no limit to the number of trials (training), and you can try until you are satisfied with your best time record.
- 3.4. Once you are satisfied with the time record of your line follower robot, the next step is to record a video of your robot's movements (according to the format that will be announced).
- 3.5. The way to record the video is stated below:
  - 3.5.1. Teacher/Parent/Guardian who is recording the video must stand in the section where the Official Automated Timer is placed.
  - 3.5.2. Teacher/Parent/Guardian needs to start recording the video a few seconds in advance before participant presses the start button on their robot.
  - 3.5.3. The video recording must include the Official Automatic Timer (OAT) and the view of entire robot (the robot must be in the "START BOX" on the official track) before the robot is activated.
  - 3.5.4. After the recording starts (after 5 seconds), participant can press the start button on their respective robots and the Teacher/Parent/Guardian must move and follow the robot while recording the robot movement until the end.
  - 3.5.5. It should be noted that once the robot crosses the finish line and the OAT stops counting the time, the video recording should be focus on the time readings displayed on the OAT to show as proof of the participant robot's official time record.
  - 3.5.6. After recording the video, participants can send the video to the organizer through TELEGRAM (please download the apps on Google Play Store / Apple App Store).  
\*Only the first video will be accepted for each format.
  - 3.5.7. Video recordings must be done for each round of the competition which will be announced by the organizer from time to time.



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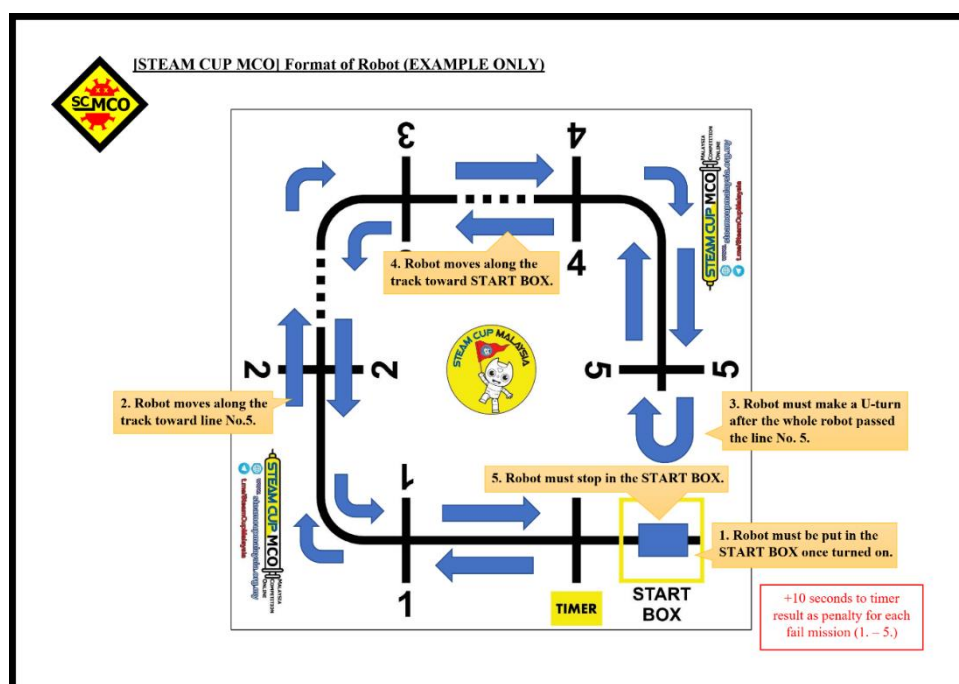
## 4. Robot Specification

- 4.1. Each participant **MUST** have **ONE LINE FOLLOWER ROBOT ONLY** and **ROBOT SHARING** with other participants is **PROHIBITED**.
- 4.2. Size and the weight of the robot is stated below:
  - 4.2.1. Length : maximum **20** cm
  - 4.2.2. Width : maximum **20** cm
  - 4.2.3. Height : no limit
  - 4.2.4. Weight : no limit
- 4.3. Only 1 battery from the original factory (Robotis) (3.7V) can be used. (Modification is not allowed).
- 4.4. The robot must move automatically and cannot be controlled manually. The robot also cannot be connected to any wire (cable) from the laptop or any equipment that can control the robot during the recording of the official video.
- 4.5. There is no limit on the number of sensors used for each robot.
- 4.6. The design of the robot must be finalized in the first qualification round and the robot must be used until the final round of this competition. Pictures of the top, left, right, front, back and bottom views of the robot should be provided to the organizer for reference from time to time. Any modification of the robot will be disqualified.
- 4.7. Each robot **MUST** have a label of participant's name for identification by judges.
- 4.8. Any damage to the robot is the responsibility of the participant and the supplier/organizer will not make any compensation.

## 5. Format

- 5.1. The format for each round will be announced via Telegram channel ([t.me/SteamCupMalaysia](https://t.me/SteamCupMalaysia)).
- 5.2. Each participant is given time to try and get the best time record for each round. However, the design of the robot must be finalized in the first qualification round and the robot must be used until the final round of the competition.

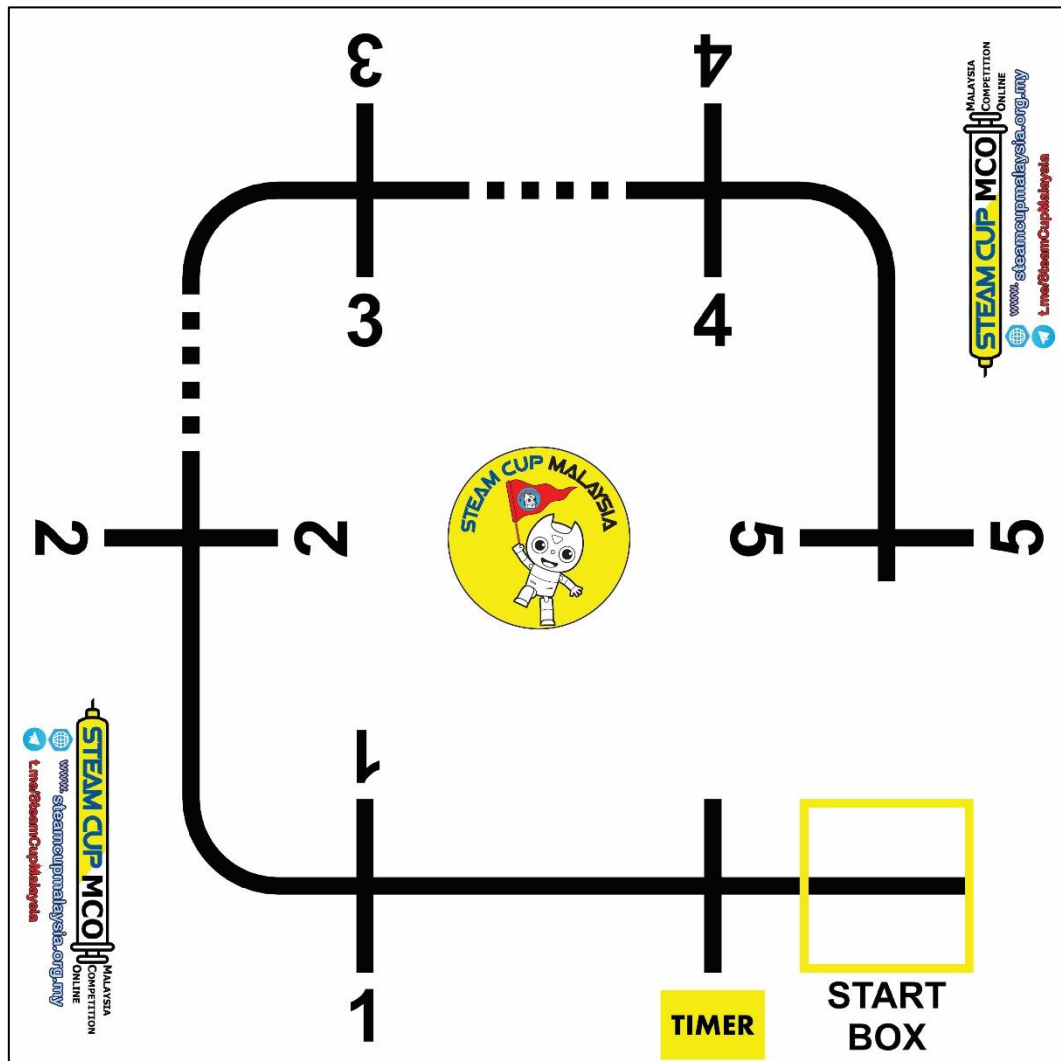
Round	Announcement of Format (through Telegram channel)	Trial Period	Due of Video Submission
Qualification Round 1	1/7/2021 (Thu) 12:00 p.m.	1/7/2021 - 4/8/2021 (35 days)	4/8/2021 (Wed) before 5:00 p.m.
Qualification Round 2	8/7/2021 (Thu) 12:00 p.m.	8/7/2021 - 4/8/2021 (28 days)	
Result of Qualification Round will be announced on 5/8/2021 (Thu) 12:00 p.m.			
Semi-Final Round	6/8/2021 (Fri) 12:00 p.m.	6/8/2021 - 11/8/2021 (6 days)	11/8/2021 (Wed) before 5:00 p.m.
Result of Semi-final Round will be announced on 12/8/2021 (Thu) 12:00 p.m.			
Final Round (Primary)	14/8/2021 (Sat) 1:00 p.m.	3 hours	14/8/2021 (Sat) before 4:00 p.m.
Final Round (Secondary)	14/8/2021 (Sat) 2:30 p.m.	3 hours	14/8/2021 (Sat) before 5:30 p.m.



Example of Format

## 6. Official Automated Timer & Official Race Track

- 6.1. Each participant uses one Official Automated Timer and one Official Race Track from the organizer.
- 6.2. Participants are not allowed to open or make any modification to the Automated Timer and Race Track.
- 6.3. The Official Race Track should be placed on a flat floor or surface with proper lighting for video recording.
- 6.4. The Official Automated Timer must be placed in the specific labelled box on top of the Official Race Track.
- 6.5. Each robot must be placed in the labelled box before the start line.



Official Race Track





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## 7. Scoring (leaderboard)

- 7.1. Each participant will be sorted based on the time record that have been confirmed by the judges after reviewing the video submitted in each round.
- 7.2. Entry screening for Qualification Rounds, Semi-Final and Final:
  - 7.2.1. The Qualification has 2 rounds. Therefore, the ranking of the participants is based on the total amount of time records for the 2 rounds. Only the top 100 participants are advanced to the Semi-Final.
  - 7.2.2. The Semi-Final has 1 only round. Therefore, the ranking of the participants is based on the official time record. Only the top 20 participants are advanced to the Final.
  - 7.2.3. The Final Round has 1 only round. Therefore, the ranking of the winners is based on their official time records.
- 7.3. Participants who score the same time record, are ranked based on the time when the video is submitted.
- 7.4. The organizer reserves the right to change the number of entry quotas for each round based on the number of registrations after the closing date.

## 8. Prize & Certificate

- 8.1. Each participant will receive an electronic certificate of participation.
- 8.2. Each winner will receive a winner's certificate and a prize.
- 8.3. The prizes for each category are stated as following:

Champion	: RM 200.00 + Certificate of Winner
First Runner Up	: RM 150.00 + Certificate of Winner
Third Place	: RM 100.00 + Certificate of Winner
Fourth Place	: RM 75.00 + Certificate of Winner
Fifth Place	: RM 50.00 + Certificate of Winner

*The prizes may be increased from time to time based on the sponsorship received.*

*Certificates of participation and winners will be sent to the applications for recognition of PAJSK marks to the Bahagian Sukan, Kokurikulum dan Kesenian (BSKK), KPM.*

*Cash prizes is not claimable after 30 days from the date that the official results are announced.*



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## 9. Additional Rule

- 9.1. The judges' decision is final and indisputable.
- 9.2. If any problem occurs and not specified in the rules of the competition, the judges and the organizer have full right to make decision.
- 9.3. Rules of the competition may be changed from time to time to improve the quality of the competition.
- 9.4. Any updates on the rules of the competition will be uploaded on the website  
[www.steamcupmalaysia.org.my](http://www.steamcupmalaysia.org.my)
- 9.5. If you have any questions, you can contact us as follows:

Rules / General Questions / Admin:

[t.me/SteamCupMalaysia](https://t.me/SteamCupMalaysia) (*Telegram channel*)

### **9.6 The rules of Malay language version shall prevail**