



**ROBOTICS COMPETITION
2024 [3rd edition]**

CRC Guidelines



**Important:**

The Organizing Committee of the COPOL ROBOTICS COMPETITION - CRC Tournament informs through this document the general aspects of the event.

General Aspects of the Event

1. All national or international educational institutions that wish to participate will have to follow the formal registration process.
2. The CRC organizing committee will confirm with the educational institution its desire to participate in the tournament.
3. All audiovisual material generated in Robot Champions - CAH, a product of the competitions or related to them during the day of the event, belongs to the Organizing Committee and may be used on social networks.

Dates and Venue

The event will take place on October 3 and 4, 2024, at COPOL premises in the city of Guayaquil, Ecuador.

Registration

1. Registrations can be made until the deadline given by the Organizing Committee, this will be notified through the event's communication channels in advance.
2. Team registration will be carried out from July 1, 2024 to September 15, 2024, through the official form.
3. The registration process of the educational unit or institution is as follows:
 - Registration of the school or institution
 - Registration of the coach
 - Registration of students
 - Registration of prototypes
4. The school registration will be made by filling out the corresponding form with the school information, the Robotics club name and logo (in case there is one), and the accompanying coach or teacher.



5. The prototype registration will be made by filling out the form, and will be sent by email once step 4 is done.
6. Teams must fill out all required fields on the registration form. The information provided will be definitive and sent until the deadline.
7. In the team registration, all robots that will be presented at the event must be included. Unregistered robots will not be able to participate in the approval.
8. By registering for the tournament, team members accept the rules set forth in these regulations and those specific to each category.
9. The data provided by the team will be used by the Organizing Committee to prepare the database of participants.
10. The event organization reserves the right to cancel any category. The categories may be closed in the approval in case there are no correctly approved prototypes of schools or Institutions.
11. To open a category there must be at least two schools with at least one approved prototype, in this case only first and second place will be awarded. If there are three Educational Institutions with at least one approved prototype, first, second and third place will be awarded.

Registration Confirmation

1. The organizing committee of the event will confirm its acceptance to the contest by email to the team.
2. The team must present this confirmation on the day of the event at the registration tables welcoming the event.

Equipment

1. A team is understood as a group of people who present one or more robots.
2. The maximum number of participants per category will be limited and is indicated below in Table 1:

Table 1
Participants by category

#	Category	subcategories	Group/institution	Number of members
1	Robot battle	Robot battle 1 lb (Senior)	3	2
2		Robot battle 3 lb (Senior)	3	2
3		Robot battle 3 lb (Junior)	3	2
4		Robot battle 12 lb	3	2
5	battle simulator	Simulated robot battle (Junior)	3	1
6		Simulated robot battle (Senior)	3	1
7	Race	insect race	2	2
8		Controlled boat race	2	2
9		Climber Robot race	3	2
10	Sumo	Lego insect race	2	2
11		Autonomous Minisumo	3	2
12		controlled Minisumo	3	2
13		Sumo Lego	2	2
14	Line follower	Sumo Makeblock	2	2
15		Speed Line follower (Junior)	2	2
16		Speed Line follower (Senior)	2	2
17		Line follower with turbine	3	2
18	Hackaton	Chase line follower	2	2
19		Makeblock line follower	2	2
20		Lego line follower	3	1
21		Hackaton scratch (Junior)	3	1
22	Soccer	Hackaton tinkercad 3D (Junior)	3	1
23		Soccer (up to 13 years)	3	3
24		Soccer (Senior from 14 years)	3	3
25		Soccer Lego	2	2
26	Otto	Soccer Makeblock	2	2
27		Otto dancer	2	2
28	Creativity	Otto Race	2	2
29		Arduino creativity	2	3
30	Labyrinth	Lego creativity	2	3
31		Arduino Labyrinth	2	2
32	otros	Lego Labyrinth	2	2
33		Drone skill with speed	3	1
34		Technological impact	2	2



3. As shown in the table, there are categories that have a maximum of 2 or 3 teams.
4. Team participants must be legally registered in the school or institution (Primary or Secondary) that they represent.

The team must select a name that identifies them and appoint a captain with their respective replacement.

About Team Captain

1. The person who is accredited in registration as captain of the team will be so throughout the competition and can only be replaced by the previously registered person.
2. The team captain will be the person who maintains a cordial and respectful communication with the organizing committee.
3. If there is any warning or problem during the competition, the organizing committee will meet with the team captains to inform or reach possible agreements.

About Robots

1. Each robot registered in the team registration must have a name to identify it.
2. We suggest naming robots so that they do not suggest high-sounding words, rejection of groups, notes of racism or lack of respect. If the aforementioned occurs, the Organizing Committee of the event reserves the right not to call this robot in the competition by the name selected by the team and will make the call by the name of the school to which it belongs.
3. Every registered robot must comply with the approval indicated in each category regulation, in addition to receiving an approval (sticker) to allow its participation in the event.

Approvals

1. Each day of competition two homologations will be carried out: one in the morning and one in the afternoon, each corresponding to one day.
2. Homologation is the verification of compliance with the specifications and characteristics that robots in the competition must meet, according to the bases per category.
3. To be eligible for robot approval, teams must complete the registration process in advance.
4. Robots must be presented and receive an approval to allow their participation in the qualifying rounds of the category to which they belong.
5. Once the robot has been approved, it will be placed in a secure place and will only be allowed out to participate in the competition.



Rules and Standards of the Categories

1. During the event, only team members may be within the competition area. If they do not comply with the above, the judge in charge may make the decision to eliminate the competitor.
2. Any change in the rules of the categories will be decided by the Organizing Committee of the event and will be communicated through notices on the official fan page.
3. Any situation not foreseen within the bases of this contest will be reviewed during the category approvals.

Judges

1. The figure of the judge is important in the competition; they will be in charge of ensuring that the rules and regulations established by the organizing committee are complied with.
2. The judges for this competition will be appointed by the organizing committee.
3. Participants may present their objections to the judge in charge of the category before the competition ends.
4. In case of doubt in the application of the rules, the judge always has the last word.
5. If there is a dispute with the decision of the judge or judges, a written disagreement can be presented to the Council of Judges. Once the competition is over, the arguments presented will be evaluated and a decision will be made in this regard. This decision is final.
6. The Council of Judges will be made up of professionals and students from university courses related to robotics.

Suggestions

We recommend following these recommendations for the smooth development of the contest and the best results for the participants:

1. Always carry your badge.
2. Be very attentive to competition calls.
3. Keep in mind all the points of the regulations.
4. Design a robot that is as robust and resistant as possible, since there will be no time for repairs (unless the regulations for each category specify otherwise).
5. It is recommended to always be aware of your belongings since the organizing committee will not be responsible for lost belongings.
6. Bring the necessary tools to the competition area to carry out repairs in case of possible robot failures.



Awards and honours

1. Participation certificates may be requested through the event's official email.
2. The recognitions of the winners in each category will be delivered only at the closing ceremony. In case of not being able to attend the closing ceremony, the recognitions will be delivered to the person in charge registered in the registration form. We are not responsible for delivery on later days.
3. The winners for each category will be awarded: to the first place, a cup referring to the event and a first place medal; to second place second place medal; and third place medal. Each place will have its respective certificate.
4. In the event that there are prizes (donated by the sponsors), on the day of the event with all the winners present (not a representative of the Unit or Educational Institution or club) of the categories, a draw will be held.
5. If you are a prize winner, you must present your card or identification document to be able to collect it.
6. The team that presents the biggest number of points during the event will be the General Champion of the Copol Robotics Competition Tournament – CRC 2024 and the winner of the Copol Robotics Competition Cup – CRC 2024. The position in each category has the following scores:
 - Gold Medal: 10 points
 - Silver Medal: 5 points
 - Bronze Medal: 3 points

Team Behavior

1. Competitors must behave with dignity, honor and respect in premisses during all activities carried out.
2. Competitors must respect and take care of the furniture of premisses, otherwise, responsibility for the acts committed will be determined by the corresponding authorities.
3. Alcoholic beverages and substances may not be consumed inside the venues.
4. You cannot compete under the influence of the aforementioned substances.
5. The instructions of the judges and the Organizing Committee must be followed at all times.
6. Care will be taken not to express insults to the judges, participants, robots, etc.
7. The representatives, guardians, family members of the participants will not be able to make any claim to the JUDGE or ORGANIZING COMMITTEE, only the captain or the teacher in charge can approach the competition area if the JUDGE so allows. The JUDGE has the power to disqualify a team if it does not comply with this rule.
8. In the event of non-compliance with these rules, the team will be disqualified from the category.

The committee reserves the right to postpone or cancel all or part of the event without prior notice.