



Last Updated: May 7th, 2017.

Please read the General Rules and the corresponding Category Rules you are going to participate carefully so that you can have a better understanding of the specifications.

## **General Questions**

### **Does the national competition on each country have the same rules as in the World Robot Olympiad in Costa Rica?**

No, each National Organizer can do slight changes to the rules so it's recommended to ask if they did any changes.

### **How do I participate in WRO?**

To participate in WRO you must first qualify in your country's national WRO competition. Please refer to the WRO website (<http://wroboto.org/about-wro/member-countries/world-map>) for more information on your region's organizer.

### **What are the age groups?**

You can find the age restriction in the general rules and on the WRO Association website: <http://www.wroboto.org/about-wro/age-group-definitions>

### What type of plug for the power source is there going to be in the competition?

The type of plug used in Costa Rica and in the Venue where the competition is going to take place has a single-phase voltage of 120V, frequency of 60Hz and the plug type corresponds to A / B.



### When will the national or regional competitions will be held on each country?

For this information you need to contact your National Organizer which you can find here: <http://wroboto.org/about-wro/member-countries/world-map>.

## Regular Category Questions

### When is the random sort done for Regular Category?

The random selection of the elements on each age group is done before each round, during the “Quarantine Time”. At this moment, teams are not allowed to make any changes to their robots.



### **Can I start the run with a sensor?**

As specified in the general rules which you can find here: [http://www.wro2017.org/Regular\\_Category/WRO-2017-General%20Rules.pdf](http://www.wro2017.org/Regular_Category/WRO-2017-General%20Rules.pdf), it is not allowed to start the program with a sensor. Please refer to the rules 6.7, 6.8 and 6.9.

The specific rule is 6.9.b that states: "b. the robot starts moving after pressing central button, other buttons and sensors cannot be used to start."

### **Are multiple projects/programs allowed in the brick for the Regular Category?**

As it is indicated in the general rules, if you are using EV3 it is not allowed to download multiple "Projects" in the regular category, only one project should be on the EV3 Brick named "WRO2017" and you must run the program called "run2017". If you are using NXT, then only one program is allowed and should be named "run2017".

*"6.7. Before the robot is placed in the quarantine area for inspection the robot must have only one executable program with the name "run2017". If you can create project folders, name it "WRO2017". Other files, e.g. sub programs, are allowed to be in the same directory but are not allowed to be executed."*

### **What are the balls used for the Senior Category challenge?**

The balls used in the challenge are the ones from the WRO BRICK SET. They are standard LEGO balls and the codes are 4100758 for the blue and 4156530 for the red ball.

### **Will the walls surrounding the Tree Planting Areas in the Regular Junior Challenge maintain a constant position?**

Yes, the walls for the planting areas stay in the same place for every round as specified in the rules were you can find here:

[http://www.wro2017.org/Regular\\_Category/Junior\\_High/WRO-2017-Regular-Category-Junior.pdf](http://www.wro2017.org/Regular_Category/Junior_High/WRO-2017-Regular-Category-Junior.pdf)



**Should all of the parts of the robot be LEGO®?**

Yes, as specified in the general rules which you can find here: [http://www.wro2017.org/Regular\\_Category/WRO-2017-General%20Rules.pdf](http://www.wro2017.org/Regular_Category/WRO-2017-General%20Rules.pdf) all the parts of the robot should be LEGO®.

**Can there be additional LEGO pieces added to the Game Objects?**

No LEGO pieces can be attached to any of the bricks and construction on any challenge.

**Can a team have more than one coach or more than 3 participants?**

No, as specified in the general rules which you can find here: [http://www.wro2017.org/Regular\\_Category/WRO-2017-General%20Rules.pdf](http://www.wro2017.org/Regular_Category/WRO-2017-General%20Rules.pdf), a team consists of one (1) coach and two (2) or three (3) team members. one (1) coach and one (1) team member is not considered a team.

**How does the “only gets these points if other points are assigned” rule works?**

For this rule to work on any of the Regular Categories you need to have at least earned any other sort of points. examples:

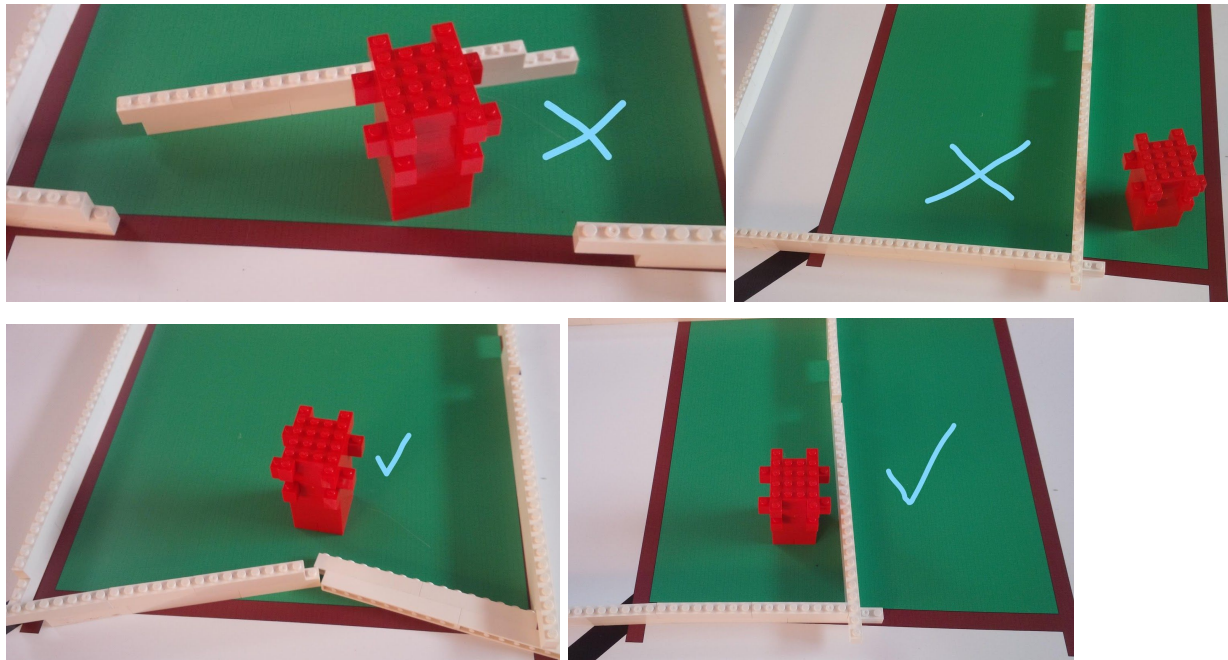
Junior: solar panel correctly installed

Senior: Turbine Base correctly placed inside the corresponding turbine wall.

These are examples of “other points are assigned” so the rule mentioned before applies.

### When are trees planted correctly and what if the walls are destroyed?

A tree is correctly planted when it is inside the walls in the right planting area when even if the wall is still destroyed or damaged. Other minus points will apply if the wall is damaged or moved of its corresponding brown area the penalization will be of -5 point per wall moved or destroyed.



the first row of images show how the tree is correctly placed in the right planting area but it's not inside the wall so no points will be granted for that tree.

the second row of images show how the tree is correctly placed in the right planting area and also inside the wall.