«PRACTICAL ROBOTICS OLYMPIAD» CONTEST RULES
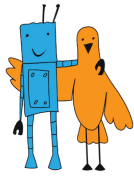
*Version **3.0** dated October 8, 2019*

1. General Provisions

1.1. Task Description

The robot must complete the olympiad tasks in the allotted time and get the maximum number of points.

1.2. Contest Categories

"Practical Robotics Olympiad" is held in the following categories:
- «LEGO» - the oldest team member is 15 years old or under in the year of the competition;
- "TRIK" - age of participants is not limited;
- "ARDUINO" - age of participants is not limited.

1.3. General Restrictions

Teams of no more than three members participate in the contest.
Using of any kind of software is allowed.
Participants are prohibited from using any sources of information (including the Internet, remote and portable media, clues and advice from third parties, etc.) during the course of solving tasks, designing and programming robots, except directly authorized by the Organizers.
The total time allotted for all tasks is set by the Organizers on the day of the competition.
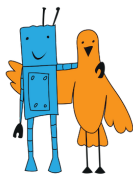Additional restrictions may be imposed at the discretion of the Organizers.
One team may participate only in one category.

2. Requirements for the Robotic Kits

A PC (tablet, smartphone) for programming the robot is provided by the participants themselves at their own discretion and without restrictions.
Participants will be provided by the following robotic kits according to the category:
- «LEGO» - LEGO® Mindstorms kits (with NXT or EV3 controller);
- «TRIK» – TRIK® robotic kits;

- «ARDUINO» - ARDUINO® controller and components.

Only robotic kits provided by the Organizers is allowed to use.

In cases established by the Organizers and with their direct permission, the participants may use their own kits. These robotic kits must be checked by the Organizers for compliance with the originals before the start of the competition.

3. Specifications of the Field

Specifications are given in the text of tasks issued on the day of the competition.

4. Contest procedure

Before the Olympiad begins, each team is given a Russian text in one copy describing the tasks and criteria for their evaluation. At the request of the team, an authentic version in English can be issued.

Teams can fulfil tasks in any order.

The team passes the robot assembled and programmed to solve the selected task to the Judges for qualification for compliance with the requirements of the task and the general requirements of the Olympiad.
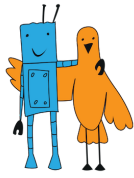
The team places the qualified robot to the field to perform the task. No more than two minutes are allowed to complete the task, unless otherwise specified in the task.

There are 3 attempts to complete the task. The maximum score is reduced by 20% for the second attempt and by 40% for the third attempt. The percentage of reduction can be changed by the Organizers on the day of the competition.

5. Disqualification

The team will be disqualified in the following cases:
- the team used parts of the robotic kits that are not included in the kit issued (or agreed) by the Organizers;
- the team used unacceptable sources of information to solve the tasks.

6. Scoring

The order of calculation and the maximum possible number of points for the performance of tasks are specified in the text of the tasks on the day of the competition.

The time spent on the performance of all tasks is taken into account. If not all the tasks are completed, the maximum Olympiad time is taken into account.

7. Procedure for Determining the Winner

The winner is the team with the highest score.

If the points are equal, the team with the minimum time spent on the performance of all tasks gets the advantage.