

REGULATION ON THE ORGANIZATION AND CONDUCT OF THE "ROBO WAR MINI" COMPETITION

Chapter 1. General Provisions

1. Purpose of this Regulation

This Regulation defines the procedure for organizing, conducting, judging, and determining the winners of the "Robo War Mini" robot combat competition.

The competition is aimed at advancing robotics, mechatronics, programming, engineering design, and technical creativity.

The competition serves to cultivate engineering thinking among participants, encourage innovative developments, and build teamwork skills.

2. Key Objectives of the Competition

The key objectives of the competition are:

- raising interest in robotics among youth and professionals;
- developing technical creativity and engineering potential;
- identifying competitive, safe, and effective robot models;
- promoting advanced technical solutions;
- facilitating experience exchange among participants.

Chapter 2. Participants and Registration Procedure

4. Participants

The competition is open to students of general education schools, vocational education institutions, universities, independent inventors, and teams aged 10–17.

Participation may be individual or as part of a team.

A team consists of no more than 3 members.

At least 1 operator must be designated for each robot.

A single participant may not compete with multiple robots simultaneously.

Organizers reserve the right to request a drawing, photograph, or technical passport of the robot if necessary.

Chapter 3. Competition Category and Robot Requirements

5. Robot Weight and Dimensions

The maximum weight of the robot must not exceed 2 kg.

The robot must fit entirely within a control gauge of 20×20×20 cm during technical inspection.

After the start of a match, the robot may open, expand, or transition to its operating configuration, but must not exceed the specified dimensions before the match begins.

Robot weight is measured together with the battery, weapon system, chassis, and all permanent combat elements.

6. General Technical Requirements for the Robot

The robot must be remotely controlled.

The robot's construction must be sturdy, safe, and suitable for passing technical inspection.

Electrical circuits, the battery, and all moving and cutting parts must be safely secured.

The robot must be equipped with a clearly functioning ON/OFF system that allows for quick and complete power disconnection.

When the robot is outside the arena, dangerous weapon parts must be covered with a protective guard.

7. Prohibited Systems

The use of the following means is prohibited:

- explosive, flammable, or toxic substances;
- liquid spray systems;
- devices that intentionally disrupt radio communications (stun guns, magnetrons, etc.);
- open high-voltage elements posing a risk to human health;
- chemical or thermal means that intentionally damage the arena structure.

Chapter 4. Combat Arena and Technical Safety

8. Arena Description

Matches are held in a specially enclosed and protected arena.

The minimum size of the arena's inner combat area is 2000×2000×1300 mm.

Chapter 5. Competition Procedure

9. Match Format

Matches are conducted in a one-on-one format.

The duration of each match is 2 minutes.

Activating the robot without the judge's signal is prohibited.

Before the match begins, robots are placed on opposite sides of the arena.

Once the start signal is given, operators begin controlling their robots.

10. Grounds for Stopping a Match

A match is stopped prematurely in the following cases:

- if one of the robots becomes immobilized;
- if a robot suffers a technical malfunction preventing it from continuing the match on the arena;
- if a safety threat arises;
- if the judging panel decides on an emergency stop.

11. Knockout and Immobilization

If a robot cannot move independently for 10 seconds, it is declared immobilized.

When immobilization is registered, the opposing robot is declared the winner.

Chapter 6. Evaluation Criteria and Determining the Winner

12. Grounds for Victory

The winner is determined in the following cases:

- by knockout;
- by immobilization of the opponent;
- by judges' decision.

13. Judges' Decision

If a clear winner is not determined by the end of the allotted time, judges evaluate the match based on the following criteria:

- aggressiveness — 20 points;
- quality of control and maneuvering — 20 points;
- technical superiority — 20 points;
- structural stability — 20 points;
- degree of impact on the opponent — 20 points.

The judges' decision is final, except for the appeal procedure provided for in this Regulation.

Chapter 7. Prohibited Actions and Liability

14. Prohibited Actions

The following actions are prohibited:

- activating the robot without the judge's permission;
- intentionally touching the opponent's robot before the start of the match;
- causing damage to another participant's equipment;
- causing radio interference;
- unauthorized replacement of the robot;
- violating arena and safety regulations.

15. Disciplinary Measures

The following measures may be applied to a participant who violates the requirements of this Regulation:

- warning;
- point reduction;
- recording a defeat in the match;
- disqualification from the competition.

Chapter 8. Technical Inspection

16. Technical Inspection Procedure

Each robot undergoes a mandatory technical inspection before the matches.

The following are checked during technical inspection:

- weight and dimensions;
- control system;
- electrical safety;
- weapon system protection;
- functionality of the ON/OFF mechanism (button).

A robot that does not pass the technical inspection is not permitted to participate in matches.

Chapter 9. Appeal Procedure

17. Filing an Appeal

A participant or team that disagrees with the result has the right to file an appeal within 10 minutes after the end of the match.

An appeal is submitted by the team leader or operator.

The appeal is reviewed by the chief judge and the organizing committee.

The decision on the appeal is final.

Chapter 10. Awarding of Winners

18. Award Procedure

Based on the competition results, winners are determined for the following places:

- 1st place;
- 2nd place;
- 3rd place.

Winners may be awarded a certificate, trophy, and other incentive prizes.

Chapter 11. Final Provisions

19. Final Rules

Issues not covered by this Regulation shall be resolved by the organizers and the judging panel.

The organizers reserve the right to make additions and amendments to this Regulation for reasons of competition safety, organizational necessity, or technical considerations.

Participation in the competition constitutes full acceptance of the requirements of this Regulation.

**This Regulation may be amended no less than 30 days before the start of the competition. The updated Regulation will be provided to all registered participants.*