



ROBOSOCCER

CATEGORY

**QUALIFYING STAGE
RULES**

BAKU 2025

1. Qualifying Stage

- 1.1. In the qualifying stage, the teams advancing to the final stage will be determined.
- 1.2. The team must assemble the robot that will participate in the RoboSoccer competition.
- 1.3. The robot can only be based on the Arduino platform. The technical requirements for the robot are detailed in the "**Final Stage Rules**" instruction PDF. The robot must meet all the specified requirements.
- 1.4. The first task of the qualifying stage is to prepare **a presentation document** based on the specified criteria about the robot. The file can be created in any program but must be sent in **PDF** format.
The content of the presentation must include:
 - Information about the team.
 - General information about the robot.
 - Description of the engineering solutions used in the robot.
 - If any part is made using 3D printing, its 3D graphic image and real photo.
 - If any part is made using CNC, its image in a graphic editor and real photo.
 - Simple wiring diagram.
 - Explanation of code operation logic.
 - Three pictures of the robot from different angles.
- 1.5. The second task of the qualifying stage is to prepare a video clip. The video clip should cover the following **topics**:
 - The sequence of changes made to the robot from the initial preparation stage to the final version, i.e., the chronology of the work done.
 - Team members should briefly talk about the criteria mentioned above in turn.
 - Show the driving of the finished robot: Moving forward and backward and turning left and right.
 - If the robot body is assembled on a CNC or 3D printer, a 5-10 second video showing the manufacturing process, i.e. CNC cutting or 3D printing.
- 1.6. **Technical requirements** for the video:
 - It should be **2-3 minutes** long and edited to include only the main points. Non-speaking parts can be sped up and a melody (optional) can be added.
 - The video must be uploaded to the "**YouTube**" platform and have a minimum quality of **1080p**.
 - The **description** of the video should mention that it is related to joining the STEAM Azerbaijan Festival 2025.
- 1.7. If the PDFs and video clips do not provide sufficient evidence that the robot is a custom design and not purchased as a kit, the team will not receive custom design and engineering credits.
- 1.8. Files for the competition can only be sent once. Additionally, the presentation will not be evaluated in the following cases:
 - The robot does not meet any of the technical requirements specified in the "Final Stage Rules" instruction PDF.
 - The content of the PDF presentation is incomplete, (i.e., if any part of section 1.4 is completely missing).
 - If any of the topics that should be covered in the video clip are completely missing.
 - If the video clip does not meet the technical requirements.

2. Evaluation Criteria

| Criteria | Score |
|--|---------|
| Teamwork (Based on the Video Clip) <i>The level of collaboration, active participation, mutual support, and joint fulfillment of responsibilities by team members.</i> | 1-10 |
| Video Clip <i>Relevance of the content.</i> | 1-15 |
| Presentation Document / Engineering Notebook <i>The comprehensiveness and clarity of the presentation document.</i> | 1-20 |
| Whether the Robot is a Ready-Made Kit or Custom-Built <i>(Fully custom-built – 25 points, Partially custom-built – 15 points, Fully kit-based – 5 points)</i> | 5/15/25 |
| Technical Design of the Robot <i>Efficiency of the robot's engineering solutions, design aesthetics, and neatness (including tidy wiring).</i> | 1-20 |
| Logic of the Code Execution <i>The functional logic and structure of how the code operates.</i> | 1-10 |
| Maximum possible score: 100 | |