

Presentation :

Two robots will compete against each other and against the clock in order to traverse an obstacle course made up of different challenges.

In ALL-Terrain challenge, the robot will have to traverse 5 different courses :

- 1/ Gravel
- 2/ Sand
- 3/ Hills
- 4/ Wet Terrain
- 5/ Mud

Specifications of the robot:

- The robot is entirely built by the participants.
- The maximum dimensions of the robot: 30cm: 30cm (length: width)
- The maximum weight: 6Kg
- The VEX robot is not authorized.
- The NXT robot is not authorized.
- The mBOT robot is not authorized.
- The robots are remote-controlled.
- The use of cables for control during the game is prohibited.
- The energy source must be internal.

Course of the competition:

- The basis of the game is to pass all the marked areas in each arena.
- In order to participate in the match, the robot must be approved by the juries.
- The opposing teams will be drawn by lot
- Two robots are each placed in its starting area and the match begins as soon as the referee gives the start signal.
- The duration of the match is 4 minutes.
- Prior to match start, 2 minutes will be given to prepare the robot and set it up on the starting place (If the robot is not ready for 2 minutes it will be disqualified).



Evaluation :

- The first robot to cross the finish line is the winner and will be qualified for the next round.
- If the match time is up, the robot that passes the longest distance is the winner.
- In case of a tie , the homologation score intervenes, if it is still the case the weight of the robot is taken into account, the lightest robot is the winner.
- If the two robots finish the arena with time to spare, the first robot that crosses the finish line is declared the winner.

Homologation score:

Mechanical design: 30 points.

Control card design: 40 points.

Power card design: 30 points.

The technical file must be presented to the jury during the homologation. (Presence of the file paper form).

Rules of the game

- Any violation of the rules will lead to the immediate disqualification of the robot.
- Damage to the field (throwing liquid, powder, the use of flammable, toxic or explosive substances).
- Any unsportsmanlike or immoral behavior towards opponents or the referee during the match or during the homologation.
- Starting the race before the referee's signal.
- If the robot stays immobile for 20 seconds.
- If the robot leaves the field.
- Intervention in the playing field during the match.
- Any change in the robot after the certification test.
- Only one member of the team has the right to guide the robot.
- After being called, teams have 2 minutes to present themselves at the starting line, if they fail to appear during that period, they will be disqualified.
- Contact between robots is only allowed to push the opponent, while



the use of any kind of weapon entails the final exclusion of the robot from the competition.

- Only registered teams are allowed to compete.
- The maximum number of participants per team is 5: (team leader and 4 member).
- The teams must respect the rules of safety and fair play: only the team leader is authorized to present the robot and to communicate with the members of the committee for any complaint or specific needs.
- The participants must in no case discuss the decisions of the jury.

