



**BOYZ**  
**ROBOTICS**  
**OLYMPIAD**  
2024

**THINK**  
OUT OF THE  
**BOOK**  
Robotics Challenge



A yellow and black robot is positioned in the top left corner of the page. It has a complex, mechanical design with a prominent orange spherical component on its chest and a long, articulated arm.

### Eligibility:

The competition is open for all OBotz students who **have completed at least Level 1 on or before 30<sup>th</sup> January 2024.**

Level completion cut-off date for participation is **30<sup>th</sup> January 2024.**

**Categories:** The participant will be allotted only in one category based on their last level completed as of **30<sup>th</sup> January 2024.** For e.g.: - A student who has completed Level 3 on or before 30<sup>th</sup> January 2024 and currently is in Level 4 will participate in Level 3 category.

This will not be changed in any case. Only one project can be displayed and submitted by the student and under no circumstances will the student be allowed to participate in 2 categories (Please see the FAQ section for further details).

A red sports car is shown in the bottom left corner of the page. It has a sleek, aerodynamic design with large wheels and a prominent front grille.A blue and red robot is positioned in the bottom right corner of the page. It has a complex, mechanical design with a prominent red component on its chest and a long, articulated arm.



**Topic:** The project should belong to at least one of the topic mentioned below:

- Agriculture
- Retail Industry
- Warehouse/Logistics
- Healthcare/Medical
- Automation for Home
- Automation for Industry/Office
- Special needs



**Be Innovative and Creative.** Give a suitable and attractive name to the Project.





**Model:** The project must be an **electronically working model** (not just construction). Kindly make sure the project is not a standard design from any levels. It should have **proper application** and some additional features with art and craft involved for presentation.

**The participant cannot build exact same project uploaded on OBotz website, Facebook and Instagram.**

<https://obotz.ca/projects/>, <https://www.facebook.com/obotzcanada/>

<https://instagram.com/obotzcanada?igshid=YmMyMTA2M2Y=>



A yellow and black robot is positioned in the top left corner of the page. It has a humanoid form with a large orange spherical component on its chest and is shown in a dynamic, floating pose.

**Construction:** The participants must use electronic components from the kits provided to them during their levels and can also combine kits of previous levels. The participant is not allowed to borrow parts from anyone else.

For e.g.: - A student completed Level 3, currently is in Level 4 will participate in Level 3 category and can use parts from Level 1,2 & 3 but not from Level 4.

The participants **can use external building/construction/stationery materials** in their project. Please ensure **no additional/external electronic parts** are used other than those provided in the kit as this will lead to disqualification.



| Category   | LEVEL KIT that can be used |    |    |    |    |    |    |
|------------|----------------------------|----|----|----|----|----|----|
|            | L1                         | L2 | L3 | L4 | L5 | L6 | L7 |
| L1 project | ✓                          |    |    |    |    |    |    |
| L2 project | ✓                          | ✓  |    |    |    |    |    |
| L3 project | ✓                          | ✓  | ✓  |    |    |    |    |
| L4 project | ✓                          | ✓  | ✓  | ✓  |    |    |    |
| L5 project | ✓                          | ✓  | ✓  | ✓  | ✓  |    |    |
| L6 project | ✓                          | ✓  | ✓  | ✓  | ✓  | ✓  |    |
| L7 project | ✓                          | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |

\*\*Students who completed Level 7 will participate in Level 7 category

A yellow and black robot is positioned in the top left corner of the slide. It has a complex, mechanical design with a prominent orange spherical component on its chest and is shown in a dynamic, floating pose.

**Video & pictures:** Please submit **1 video & 5 pictures** of the project with the participant in it which will be used to verify whether all rules are followed.

Project video for Level 1,2 and 3 should **not be longer than 1 minute**, working needs to be shown explaining the idea and which category does it belong to? Also explain the use/working and do not mention about any parts. Follow FAQ for sample.

Project video for Level 4 to 7 should not be longer than 1 min 30 seconds. The working of project and glimpse of code needs to be shown and detailed presentation will be done live in person. Follow FAQ for sample.

A red sports car is shown in the bottom left corner, partially cut off by the edge of the slide. It has a sleek, aerodynamic design with white highlights on its front end.A blue and red robot is positioned in the bottom right corner. It has a complex, mechanical design with a prominent red component on its chest and is shown in a dynamic, floating pose.



Deadlines :

Last date to send videos & pictures is **18th February 2024 by 4 pm**. You can submit your project pictures and videos to the respective center by email or G-drive link before the deadline.

(Refer FAQ section for picture guidelines)

**Code submission:** Level 4 to 7 categories must submit their codes along with a video and 5 pictures.





**Project Display in person :** 3<sup>rd</sup> March (10 am onwards at Ontario Science Centre, Toronto). Exact time slots will be shared nearing the final date.

**Time limit:** Every child would get 3 minutes to present their project in front of the judge (in person)

**Registration Deadline:** 30<sup>th</sup> January 2024

**Registration Fee:** \$50 (Pay your center for completing the registration).

**Every participant who registers gets a medal and an  
OBotz T-shirt.**





## Winning Parameters - EPIIC:

*(Each parameter will be marked on a scale from 1 to 10)*

- Execution (working efficiency, user friendly)
  - Presentation (communication, confidence, video)
  - Ideation (Clarity, research, use)
  - Innovation (uniqueness, futuristic)
  - Creativity (design - shape, colour, materials, elements).
- 
- 



*TOP 5% of each category will move to INNOVATORS HUB*

**INNOVATORS HUB: -**

The Finalists will be called on the stage and a series of questions related to the project will be asked by the judges in front of the entire audience/parents.

The participant will have to prepare on the questions mentioned in the next slide.

The judges will decide the winner based on EPIIC and Innovators Hub interaction.





INNOVATORS HUB QUESTIONS:

- What inspired you for this project idea?
- What technology/concept/science was used in this project??
- Explain the market usage/compatibility of your project
- Scalability of this project in terms of ( Market and product)
- Comparative market study on cost with similar products available.



**Innovation is Unfinished if it doesn't become a Finished product**





Thank  
you

