



**MakeX Inspire**

**'Smart Logistics'**

**National 01 June 2025**

## MakeX Inspire - Smart Logistics (National 2025) – 01 June 2025 –

### Competition Overview

The **MakeX Inspire - Smart Logistics** competition is divided into two categories based on participants' age groups. Each section has specific mission structures and scoring criteria.

- **7-9 Years Old Category:** Participants must be **no older than 9 years old** on the competition day.
- **10-12 Years Old Category:** Participants must be **no older than 12 years old** on the competition day.

### Robot Sharing & Competition Format

- **Robot Sharing:** A single robot can be shared by up to **three students**, with each student using a different **name and program**.
- **Manual & Automatic Combination:** Participants can **combine manual and automatic control** within a mission.
  - **Manual Control:** Students use a **Bluetooth controller** to operate the robot.
  - **Automatic Control:** The robot follows **pre-programmed instructions** and runs autonomously.
  - **Combination Example:** A student may program the robot to move cubes automatically but use manual control for **fine adjustments or additional tasks**.

### Arena Regulations & Pre-Match Preparation

- Once students enter the competition arena, **they cannot communicate with coaches or other external members.**
- Participants will be **guided to their designated area**, where they can:
  - Work on their robot.
  - Perform necessary **testing** and **adjustments**.
  - Use the **test arena** until their match begins.

### Competition Format by Age Group

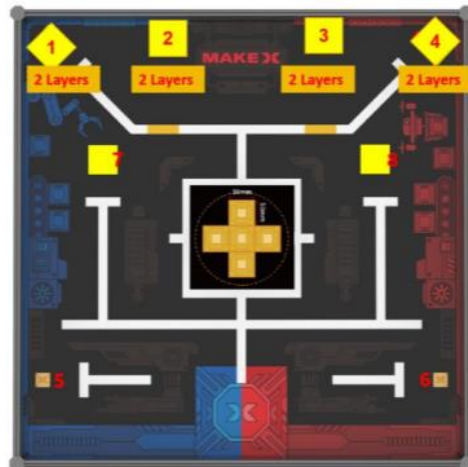
#### **7-9 Years Old Category**

- Participants will compete in **two rounds**:

1. **Round 1&2 - Regular Mission:** The robot must transport cubes to the warehouse area.
  2. **Round 3 - Mysterious Mission:** The mission objective will be announced on competition day.
- **Final Score Calculation:** The **sum of all three rounds** determines the participant's ranking.

#### 10-12 Years Old Category

- Participants will compete in **three rounds**:
  1. **Round 1 - Classic Mission:** The robot must distribute **10 yellow cubes** to **warehouse areas**.
  2. **Round 2 - Advanced Mission:** The robot must distribute cubes according to the specific warehouse placement rules:
    - Warehouses 1,2,3&4 should be covered by **two cubes**.
    - Warehouses 7&8 should be cover by **1 cube**.
    - Cubes must **fully cover** the warehouse area without touching the robot.



3. **Round 3 - Surprise Mission:** A new challenge will be **announced after the opening ceremony**.
  - Participants will have **5 minutes** to discuss with their coaches before testing begins.

- **Final Score Calculation:** The **sum of all three rounds** determines the participant's ranking.

#### Scoring & Mission Rules

- **Regular Mission Scoring:**
  - Each **validly placed cube** = **50 points**.
  - **Partially covering** cube (covering the x on the warehouse)= **25 points**
  - **Partially covering** cube (touching the warehouse but **Not** covering the x)= **10 points**
  - A maximum of **500 points per round** (if all 10 cubes are placed correctly).
- **Surprise Mission Rules:**
  - Mission rules will be decided after a meeting between the head of judges and a representative of each participating club or school.

#### What MakeX Provides

Each participant will receive:

- ✓ **Competition Arena & Required Props**
- ✓ **Official MakeX T-Shirt**
- ✓ **Lunch Box**
- ✓ **Participation Certificate**
- ✓ **Medal of Participation**

