

WRO 2022 FRIENDSHIP INVITATIONAL RoboMission Junior Extra Challenge

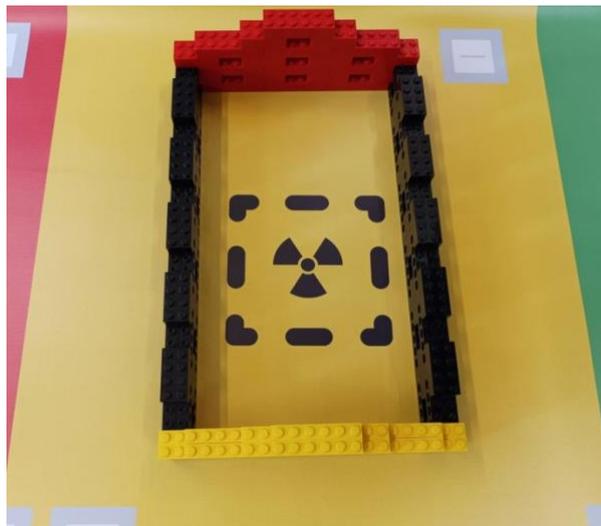
Robot starts from the same start / finish area as in the base challenge.

1. Demolish Dangerous Wall

After the fire was extinguished some walls in the factory got damaged and are threatening to collapse at any moment. To avoid any accidents you have to demolish the dangerous wall. The starting position of the wall can be seen on the picture below:



To score points the robot has to push the wall so that it lands on the game mat and stays completely inside the yellow room.

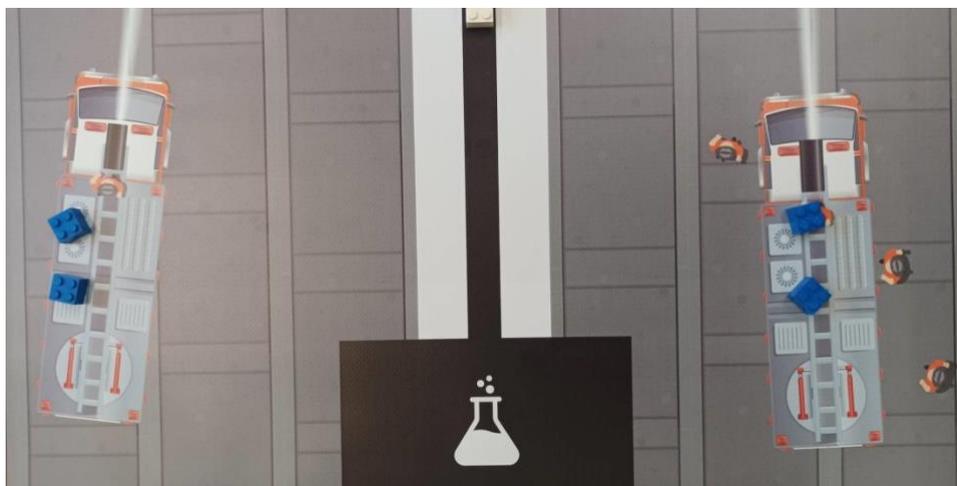


2. Soaked Factory

The whole area of the factory was soaked with a lot of water during the firefighter's operation. In order to start gathering the ruins you have to pump out the water from the area. There are four water elements within the factory, one-one in the blue, green, brown and red rooms. Water elements are always on the left lower corner of the right upper grey area (see picture):



Water is pumped into the firefighter trucks, so points will be awarded for each water element that is at least touching one of the firefighter trucks (does not have to be completely inside).



3. New Shift

Once the fire is extinguished the firefighters are done with their job and some disaster recovery team is taking over from them. At the start two firefighters (red) are standing on the roof right next to the factory, see picture below:

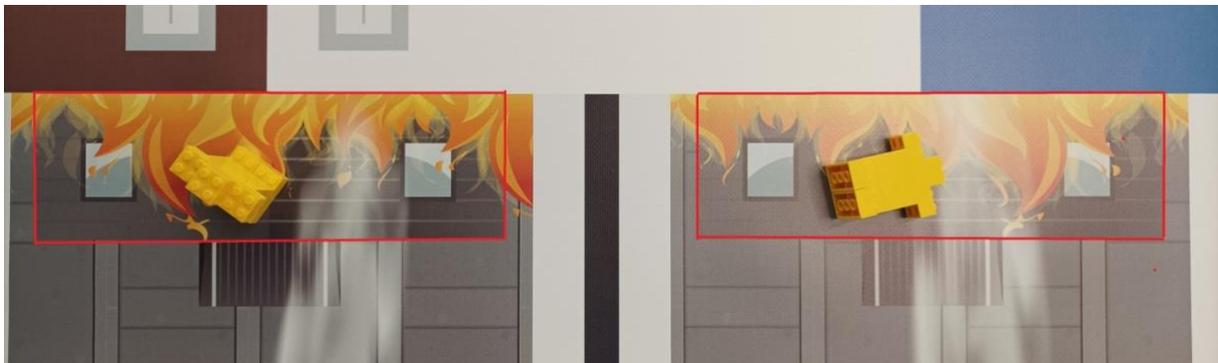


You have to take the firefighters completely (the objects only touch the roof areas) inside the map area. It does not matter if they are standing or lying.

Two people from the recovery team (yellow) are standing on the numbered parts of the two starting areas, see picture below:



You have to take these two people completely (the objects only touch the roof areas) on the roof areas. It does not matter if they are standing or lying.



Scoring Sheet – WRO 2022 RoboMission

Junior Extra Challenge

Team name: _____

Round: _____

Tasks	Points	Score
Demolish dangerous walls: the wall is not damaged and lying on its base (see picture above) completely inside the yellow room.	20	
Soaked factory: water element is at least touching one of the firefighter trucks.	15 / water (max 60)	
New shift: the firefighter is completely inside the map area.	25 / firefighter (max 50)	
New shift: the recovery team member is completely on the roof area.	25 / person (max 50)	
Total score (180)		
Time (in full seconds)		

 team member signature

 judge signature