

Robocon Malaysia 2021 FAQ

No.	Question	Answer
	<u>Throwing and Loading Arrow</u>	
1	Can TR throw more than one arrow at the same time?	No.
2	Can the robots take arrows from Arrow Rack before using 5 arrows?	No. The robots must use all the first 5 arrows before taking other arrows from the rack.
3	Can the robot hold more than 5 arrows?	At the beginning only 5 arrows, after that first 5 arrows are used, the robots can carry as many as possible.
4	The next 15 arrows must be taken from rack or can be manually loaded?	The 15 arrows must be taken from the rack.
5	Can TR shoot arrows into the same pot consecutively	Yes.
6	If an arrow thrown by TR hits AR and then goes into the pot then is it counted as a valid point?	If the arrow thrown by your TR hits AR and then enters into a pot, the score is invalid/will not be counted. The Arrow having entered in any Pot shall be taken out by the team and shall not be used for this game.
7	If AR become TR, it must only throw arrow only from the Throwing Area?	Yes. AR can become TR only when it fully enters the Throwing area.
8	The rule says that TR has to wait until the arrow has landed before throwing another arrow. So, if both robots become TR, can both robots throw at the same time? Or only 1 can throw at a time and wait?	Both can shoot at the same time. However, each TR must wait for their arrow to land before shooting another arrow.
9	Can AR become TR and pick arrow from the rack?	When AR becomes a TR, it is allowed to pick up arrow from the rack. However, being a TR, the robot cannot pass the arrow. Please refer to Rules 2.4.1: Tasks of Robot TR.
10	If AR wrongly throw an arrow into a pot from the inner area, should we retry and return the robot to start zone?	The AR is subjected to mandatory retry. The retry must be done at its start zone. The Arrow having entered in any Pot during the violation shall be taken out by the team and shall not be used for this game.

	<u>Robot AR and TR</u>	
1	Can TR shoot arrows without moving or turning its direction by using two shooters on a robot aiming at different pots in turn? Can one robot have multiple shooting mechanisms?	Yes.
2	Is it possible to build one robot which can be both AR and TR?	Yes, it is possible.
3	AR can be TR; then can TR be AR?	AR can be TR. However, TR cannot be AR.
4	Can the AR switch back and forth between TR and AR tasks?	Yes.
5	During the start is it a violation if the arrow extended out of the start zone?	No. However the robot must be completely fit into Start Zone before the game starts.
6	Is there any restriction on method of shooting the arrow?	No. But please refer to the restrictions on robot design in rulebook.
7	Can the robot be controlled wirelessly?	Yes. Please ensure that the wireless controller uses only WIFI, Zigbee or Bluetooth.
	<u>Retry</u>	
1	During retry, if the arrow happened to be simultaneously in contact with the robot and the game field, can we adjust the position of the arrow?	No. The arrow that touches the ground, cannot be collected by the operator during retry.
2	If the operator accidentally dropped the arrow onto the ground during retry, can the arrow be picked up again?	If the arrow accidentally fallen during retry when the operator is handling it, then yes.
3	Can player reposition the arrow on robot during retry?	Yes.
4	TR goes to the arrow rack and collects all the 5 arrows successfully. After that, can I call for a retry and reload the collected arrows into my shooting mechanism manually by hands?	You can reposition arrows during retry. But every retry needs permission from the referee and follow the retry condition.
5	When the condition permit, can we load 15 arrows on the robot and apply for retries to adjust the position of all the arrow at the start zone?	Yes. However, retry must be done according to the rules with approval from the referee.

6	Will the judge allow us to retry at any time we want even though the robot do not fall in fault?	Retry can be done at any time with the approval from the referee. When the team asked for retry, is it is assumed that the robot is in fault.
7	If arrows are on AR, during retry could we reposition the arrows from AR to TR?	No. You can only adjust the arrows on the same robot.
8	Is there a limit on the number of retries we can ask during the game?	There is no limit to retry.
9	During the retry of a specific robot and while the second robot is still running is the 3rd operator allowed to assist with retry?	Any team members are allowed to assist in retry.
	<u>Game field and Accessories</u>	
1	Are we allowed to lock/ fix mounted arrow rack onto the ground?	No, the rack should not be locked to the ground. However, the rack should be heavy enough not to be easily moved by the robots.
2	Can any part of TR touch the rack?	TR can touch the arrow rack, but can't move it.
3	If the arrow rack moves during the game, are we allowed to reposition it?	It is not allowed to move the rack. However, if the rack moves due to accident, it can be repositioned back without interrupting the game.
4	During first shooting phase, if the robots haven't finished the initial arrows and it accidentally hits the arrow rack and the arrows falls on the robot. Is it considered a violation?	If it is an accident, no. However, the referee will make further decision and may ask the robot to retry.
5	Can we use Jig to replenish arrow?	Yes. The team can used non-powered jig to replenish the arrow.
6	Do I need to make a declaration when replenishing the arrow onto the rack?	No declaration is required.
7	Can we put anything inside the pot (e.g., tracker)?	No
8	Is the operator allowed to replenish the arrow rack when the arrow rack still have some arrows?	No. Only when an Arrow Rack is completely empty, one assigned team member can enter into the field near the Arrow Rack to replenish the five (5) spare Arrows to the Rack, at a time.

9	Is it a violation if the arrow head detached from the shaft?	The robot will be warned and can carry on with its task. The damaged arrow shall be taken out and shall not be used again. Team have to ensure that the robots does not damage the field or the game accessories during the game.
10	Can we modify the arrow or glue the arrow head to the carbon fiber shaft?	Yes, as long as the arrow is within the specification
11	If we were not going to make table for Pot II and III rotatable, is there a rule on the position of the table?	The table should be fixed to the original angle specified by the rulebook
12	Will the game field of the Final Round use the pot table that can rotate or fixed?	The pot table II and III at the competition site can be rotated. However, the turn table mechanism can be fixed/locked depending on the team's request.
13	What will happen if the referees find out the dimensions are off from rule book on the competition date? How much is tolerance of the dimensions for the game field?	The tolerance is $\pm 5\%$ for the field and accessories. However, for the robots, it is not allowed to exceed any of the given specifications.