

ABU Robocon 2023 Phnom Penh, Cambodia

FAQ3

20230120

Please read the rule book carefully before sending any questions. Please cooperate with us for smooth operation in a limited time.

Rulebook Ref No.	Table of content
1	Terms and Conditions
2	Game
2.1	Game procedure
2.2	Points
2.3	Deciding the Winner
2.4	Retry
3	Violations
4	Disqualification
5	Robots
6	Safety
7	Teams
8	Others

[FAQ3 Posted on Jan 20, 2023 Providing answers for questions received from 05 Nov - 12 Dec 2022](#)

Please always put the date of when you add FAQ

1. Term and Conditions

FAQ #	Question	Answer
1.1-13	According to item "Terms and Definitions" of Game Rules pdf file, "ER picks up rings and tosses them into the pole of Angkor Wat Area". However, we cannot sure if ER can toss the rings into Angkor Center Area or not. Can ER throw the ring to the four Type 2 Poles and the Type 3 Poles?	ER can pick up the rings and toss to any poles.

2.Game

2.1 Game Procedure

FAQ #	Question	Answer
2.1-45	Can the entire game be played without entering the Angkor Center Area, or is it necessary for the Rabbit Robot to ascend there?	Yes, up to your strategy.
2.1-46	We would like to ask two questions about the areas included in the "opponent team's area", which is defined in section 1.3 and 1.4 of the Rule Book as an area that our robots cannot enter. 1. According to the correction in FAQ 3-3, we considered that the opponent team's Bridge is included in these areas which our team's robots cannot enter. Is this correct? 2. No distinctions is defined between own team's area and opponent team's area in Moat Area, but we thought that if our team's color is	<ol style="list-style-type: none">1. Yes, Bridge here refers to the grey bridge which connect from red/blue area to the Angkor Area.2. Yes, you can only enter to your colour area and Angkor Center Area. Moat area of each team is divided by the bridge. You cannot enter or move in the space of the opponent's bridge.

	red, our team's robots are only allowed to enter the area above the Moat Area between "Red Area" and "Angkor Red Area" and are not allowed to enter between "Blue Area" and "Angkor Blue Area". Is this assumption correct?	
2.1-47	Should the loading of the rings be autonomous, or can the team members feed it into the robot?	According to game rule 2.1.8, the team members must not touch the rings except for a retry. During retry, the rings must be returned to the ring zone. Please refer to revision of rulebook 2.4.4.
2.1-48	If both the bots are independently able to pick and throw the rings in the pole, then is it necessary to design a passing mechanism ? If ER is able to throw the rings in the central pole, then according to stage 1 guidelines is it necessary that RR should also throw the ring in the centre pole ?	It is based on your strategy while Both robots can pick up and throw the rings to any poles.
2.1-49	If our RR is able to throw rings in the type 1 and type 2 poles without climbing the Angkor centre area then is it necessary to design a jumping mechanism for RR ?	Jumping Mechanism here refer to the movement of RR from the red/blue area to the Angkor Wat Area, cross over the moat area.
2.1-50	Does the passing mechanism of ER mean that it should place the rings in RR 'OR' throw the rings in RR 'OR' throw the rings near RR so that RR can pick it up?	All phrases don't go against the rulebook, it is based on your strategy.
2.1-51	1. Can we use a mobile screen for wireless controlling? 2. Is it compulsory for Rabbit Robot to climb the Angkor Center Area?	1. Yes. Please check your domestic contest organizer. 2. No.

2.4 Retry

FAQ #	Question	Answer
2.4-13	<p>Q1: How to solve the problem if the ring is deformed after casting?</p> <p>Q2: What if the ring splits after hanging on the pole, will it be scored?</p> <p>Q3: Is the robot must entirely enter (including its space above) in the Start Zone for Retry?</p>	<ol style="list-style-type: none"> 1. It won't be a violation, however, that team will use the ring in that shape if they want to pick up. 2. Please kindly follow the ring production on the Appendix 2, If the ring should split, it will be regarded as a violation and score of the ring will be invalid. 3. Yes.

3. Violation

FAQ #	Question	Answer
3-9 (from FAQ2-2	<p>"Damaging" a ring means, for example, the act of tearing, ripping, or dismantling a ring, and merely bending, twisting, or otherwise distorting a ring does not amount to "damaging" a ring.>></p>	<p>The act of bending, twisting, or distorting rings are NOT violation.</p> <p>The act of combining, dismantling, tearing and ripping rings are violation.</p>

Violation



Not Violation



5 Robots

FAQ #	Question	Answer
5-14	EXPLAIN THE DIFFERENCE BETWEEN POINT NO. 5.6.3 AND 5.6.4 AT PAGE NO.7 OF ABU ROBOCON 2023 RULEBOOK.	5.6.3 for battery source for robot. 5.6.4 is boosted voltage in circuit of robots.
5-15	We are concerned about the weight of the robots, whether 50 kg is the combined weight of both the robots or is it for the individual robot.	It is the total weight of both robots. Please refer to rulebook 5.5.

8. Other

FAQ #	Question	Answer
8-20	The official rule book of the official ring, it mentioned that the ring will be using Twin Welding Hose. There's a part have confusion is whether the Twin Welding Hose will be split into two or it will always maintain as twin layer.	It will split into two, once for red and one for blue.
8-21	What will be the weight of the ring ? (many teams across universities are getting different weight of rings hence ABU must mention a proper weight guidelines for rings).	110g
8-22	We wanted to enquire about the material from which the ring used in Robocon 2023 is going to use. Is it provided by the official institution or whether it can be locally sourced from the native place/country of our origin.	Each team should find the ring material on your own market / contact us if you have any problems.