



QUESTIONS AND RESPONSES / QUESTIONS ET RÉPONSES

ROBOTICS ROBOTIQUE

SECONDARY /
NIVEAU SECONDAIRE

Question One:

From: Peter Bondi

Sent: Saturday, September 10, 2016 1:06 PM

To: Bob Tone

Subject: Scope Clarification- Robotics Team of Four

Hi sir, I'm Peter from Michael Power, and the student leader for this year's Skills Canada Robotics club, working with teacher moderators Mr. Comisso and Mr. Serpe .

We were reviewing the Contest Description and wanted clarification for an apparent contradiction in instructions.

On page 13, it states that "Teams can utilize a Maximum of 2 Tele-operated Robots " .

I understood this to be a lack of co-ordination and nothing more, and assume that we are allowed to use two tele-operated robots, and then one autonomous robot.

Is this assumption correct?

Thank you for your input in the matter,

Peter Bondi

Response One:

Teams must adhere to the 4 cubic feet maximum size for their tele-operation entry but they can utilize this space anyway they wish.

Example One: A single tele-operated robot.

Example Two: Two tele-operated robots as long as their combined size fit into the allowed 4 cubic feet maximum size allocation.

Example Three: A combination tele-operated and autonomous entry as long as their combined size fit into the allowed 4 cubic feet maximum size allocation.

Bob

Question Two:

From: Peter Bondi

Sent: Saturday, September 10, 2016 1:19 PM

To: Bob Tone

Subject:

Hi sir we have another issue for clarification

When it states that "Teams may also have Independent Autonomous Elements as part of their entry. These elements may possess ONLY ONE Football at a Time each and these Football(s) do NOT count against their Team's Maximum Two Footballs at a time limitation", does it refer to elements that are just independent from tele-operation but can be mounted on the robots, or physically independent from the robot when in use (as well as independent from tele-operation?)

Thanks for your help,

Peter Bondi

Response Two:

The reference is to footballs in the possession of elements / devices that are totally / physically independent of the robot. Any element mounted on a robot is considered part of the robot and subject to the restriction related to the number of balls.

Question Three:

From: Comisso, Gianluca (Michael Power/St Joseph)

Sent: Thursday, September 22, 2016 6:20 PM

To: Bob Tone

Subject: accessing question and answer forum

Hi Bob,

I hope all is well. How do you get to the question and answer forum? Also, does the ball have to be thrown into the 3 point circle or can you place it. For example, can you have an arm that reaches through the hole and drops the football in?

Cheers,

Luca

Response Three:

Answers are being sent directly to the team that asks the question.

Answers will be shared with all teams on the Skills/Compétences Canada web site <http://skillscompetencescanada.com/en/scnc-2017-contest-descriptions/>.

Robots are not allowed to touch / come in contact with the scoring structure / bin / backboard at any time.

The obvious solution is to have some variation on a 'Throw' involved in scoring either a 2 point ball or a 3 point ball but if teams can create a solution that reaches above the 2 point bin or into the Hail Mary Hole in the backboard then releases / drops a ball this would be allowed as long as **NO part of the robot touches / comes in contact with any part of the structure supporting the bin or the bin itself or the backboard.**

Note: It is not shown in the contest description images but there will be a very light weight net behind the Hail Mary Hole to catch balls and help avoid scoring errors on the part of the referee. I intend to offset this net from the back of the backboard so the netting will not prevent a ball from passing through the Hail Mary Hole.

Of course no part of a robot will be allowed to touch / come in contact with this netting.

Bob

Question Four:

From: Roger Branconnier
Sent: Sunday, October 2, 2016 7:19 AM
To: bobtone@rogers.com
Cc: Ivan Conrad; Jeremy Nesseth
Subject: Rule Clarification "Autonomous Elements"

Hi Bob,

I need some clarification on the following rule regarding the teleoperated game.

It says in the rules that Robots in Double Tele-operated Robot Entries may possess One Football each but I'm confused about this next line.

Teams may also have Independent Autonomous Elements as part of their entry. These elements may possess ONLY ONE Football at a Time each and these Football(s) do NOT count against their Team's Maximum Two Footballs at a time limitation.

Does this mean that you can have as many autonomous robots in the teleoperated game as you want or parts of your teleoperated robots have autonomous parts built in? I'm just confused about the wording "Autonomous Elements".

Could you clarify?

Response Four:

Hi Roger,

Teams must adhere to the 4 cubic feet maximum size for their tele-operation entry but they can utilize this space anyway they wish.

Example One: A single tele-operated robot.

Example Two: Two tele-operated robots as long as their combined size fit into the allowed 4 cubic feet maximum size allocation.

Example Three: A combination tele-operated and autonomous entry as long as their combined size fit into the allowed 4 cubic feet maximum size allocation.

There is no size restriction placed on the Autonomous Robots intended to participate in the Autonomous Only Competition other than they need to be able to move within the available court space without damaging the court.

The reference is to footballs in the possession of elements / devices that are totally / physically independent of the robot. Any element mounted on a robot is considered part of the robot and subject to the restriction related to the number of balls.

Bob

Question Five:

From: Phillips, Derick

Sent: Monday, October 3, 2016 5:17 PM

To: bobtone@rogers.com

Subject: Question About Robotics Challenge

Good day Bob,

The question our team has is, can the football tees be intentionally moved around during game play in the tele-operated game?

Thanks

Derick Phillips

Science, History & Technology Teacher, NPSS

Mentor, Skills Canada Robotics

Response Five:

Hi Derek

The football tees will be fixed in place and cannot be moved by a robot.

Moving the football tees would be the equivalent of damaging the court and this is not allowed.

Bob

Question Six:

From: Ian McTavish

Sent: Tuesday, October 11, 2016 3:32 PM

To: bobtone@rogers.com

Subject: Robotics Contest Description

A couple of questions regarding the robotics Contest Description:

The stands are 'fixed' in place - does this mean they are physically attached to the plywood or they start in a set location but can be moved?

With the teleoperated robots if we were to build 2 does the total volume for both robots combined equal 4, can a camera be used if the camera is used for vision processing and no signal is sent to the driver other than an number representing the distance to the target?

Sincerely,

Ian McTavish

Response Six:

Hi Ian,

Here are the responses to your questions.

The stands are 'fixed' in place - does this mean they are physically attached to the plywood or they start in a set location but can be moved?

Response: Teams **cannot move** the football stands at any time during game play.

With the tele-operated robots if we were to build 2 does the total volume for both robots combined equal 4

Proposed Response: Teams **must adhere to the 4 cubic feet** maximum size for their tele-operation entry but they **can utilize this space anyway they wish.**

Example One: A single tele-operated robot.

Example Two: Two tele-operated robots as long as their combined size fit into the allowed 4 cubic feet maximum size allocation.

Example Three: A combination tele-operated and autonomous entry as long as their combined size fit into the allowed 4 cubic feet maximum size allocation.

Can a camera be used if the camera is used for vision processing and no signal is sent to the driver other than a number representing the distance to the target?

Proposed Response: **YES** a camera can be used as long as the image generated by the camera is **displayed 'ON the Robot'** either in the camera's own view finder or in a mounted on the robot lap top or other **'ON the Robot'** device screen.

Question Seven:

From: Emer, David (Mary Ward)

Sent: Monday, October 17, 2016 10:11 AM

To: Bob Tone

Subject: Skills Contest Description - Missing dimensions for the wood block holders

Bob,

The football holder diagram is missing the lateral dimensions for wood blocks?
 Can you please resend those distances?

Thanks,

Dave

Response Seven:

Hi Dave,

This revised JPG provides the info you need?

Bob

