



7th ANNUAL INTERMEDIATE SKILLS COMPETITION

Saturday, January 30, 2010

Mount Pearl Intermediate

LEGO ROBOTICS

Intermediate Level Scope - Team Size 5 to 10 - 1 Team per School/Organization

LEGO Robotics is a competition for students in grades 7-9 that combines a hands-on, interactive robotics program within a sports-like atmosphere. Teams consist of 5 to 10 players with the focus on designing, building and programming a LEGO robot to complete several missions in a limited amount of time.

Please Note: Although this is not an official First Lego League (FLL) competition, the event does use the robot game part of the FLL competition format.

Skills and Knowledge to be tested:

This year's competition theme is **Smart Moves**: *The Smart Move Robot Game gives you first-hand experience in getting a sensor-equipped vehicle (your robot) to gain access to places and things, while avoiding or surviving impacts, all in a test environment* (<http://www.usfirst.org/roboticsprograms/fll/missions1.aspx#>)

The competition will focus on *robot performance* and *teamwork*. Your robotics team will compete in the robot game and:

- Design, build and program a robot to compete in the robot game (<http://www.usfirst.org/roboticsprograms/fll/missions1.aspx>).
- Teamwork is essential to completing as many of the missions as possible on the **Smart Moves** field.
- There will be at least 3 heats and each heat will last 2 ½ minutes. That means the robot has 2 ½ minutes to accomplish as many missions as it can in the Smart Moves 2009 Challenge.

To Participate:

- Register with Skills Canada - Newfoundland and Labrador. Please contact Tome Donovan (see below).
- Purchase the Educational version of the LEGO® Mindstorms™ Kit (RCX or NXT).
- For further information about the LEGO Robotics Competition please contact Thomas Sheppard (see below).

LEGO Robotics League Scope Checklist:

It is important that your team, mentors and coaches explore all tasks involved. To maximize your team's performance, please invest the time to read **ALL** of the competition documents before starting and refer to them often.

Please ensure you read all the documentation found on the FLL web site:

- The Robot Game Missions: (<http://www.usfirst.org/roboticsprograms/fll/missions1.aspx>)
- Q & A: (<http://www.usfirst.org/roboticsprograms/fll/gameqa1.aspx>)
- Rules: (<http://www.usfirst.org/roboticsprograms/fll/rules1.aspx>)

For additional information about the 7th Annual Skills Competition, please visit:

<http://www.skillscanada-nfld.com>

Skills Canada NL – Lego Robotics Technical Committee

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Other Committee members include:

Norman Littlejohn,

Randy Dobbin, Kate Saunders, and

Dwight Howse.