



# BCIT's GEARBOTS Engineering Challenge

at the Skills Canada BC Provincial competition - TradeX, Abbotsford BC - April 17th, 2013.

## Mission statement:

To provide an opportunity for students to work together in engineering teams to creatively solve problems using programmable (autonomous), lightweight robotic devices.

## Target audience:

### A. Jr. Engineering Level ages 9-14 - Challenge option:

Designed for teams wanting to complete the challenge without the added pressure of awards and rankings based on total missions completed, total points and lowest time.

### B. Sr. Engineering Level ages 9-15 - Competition option:

Designed for teams wanting to compete for the traditional Gold, Silver and Bronze awards judged and ranked by total missions completed, total points for total missions completed and lowest accumulated time.

## Event duration:

Total of 4 hours working on the various themed missions

- does not include a one hour lunch break

## Team size:

1. Each team will consist of up to three (3) people
  - Co-educational teams are encouraged
2. Limited to 36 teams registered through Skills Canada BC
  - Number of teams entered will depend on the demand for the event

## Equipment supplied by the each team:

- consisting of up to 3 students per team

- Teams are responsible for bringing their own robotic equipment & laptop computer. Recommended / possible equipment includes:

- One (1) laptop computer (this will be strictly enforced), NXT-G 1.0+ Edu software (or RobotC, NI LabVIEW) tape measure(s), extra batteries, + one (1) NXT education base set #9797 + one (1) optional education resource set #9648 (NO extra / 3rd party sensors/attachments allowed)
- OR FisherTechnik Robo platform including Robo Pro software
  - Standard equipment contained in the ROBO TX Training Lab kit (with three motors)
  - Contact [info@gearbots.org](mailto:info@gearbots.org) directly if you have any questions about this option.
- It is recommended that teams pre-build a robotic device prior to attending (REMBot's dimensions are ideal for this type of challenge).



## For more information:

Visit <http://www.gearbots.org>



QR CODE

**REGISTRATION IS NOW OPEN**

- visit [www.skillscanada.bc.ca/](http://www.skillscanada.bc.ca/)



GEARBOTS is a proud supporter of STEAM Education: Science, Technology, Engineering, Arts, and Math



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