23rd ONTARIO TECHNOLOGICAL SKILLS COMPETITION

LEGO Mechanics Challenge – Team of 4

Grades 7&8

Challenge Date: Monday, April 30, 2012

Location: **RIM Park and Manulife Financial Sportsplex**
2001 University Avenue East, Waterloo, Ontario

TECHNICAL CHAIR:

Christopher van Dop, C.E.T., OACETT PASB Councillor Western Region

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Ce document doit être utilisé que dans le cadre de la préparation aux Olympiades ontariennes des compétences technologiques.

MORE INFORMATION:

Refer to the Elementary Competition Information Package on www.skillsontario.com for questions about rules, regulations, eligibility and registration. For technical questions that are contest specific, please contact the technical chairs at the email above or the Skills Canada – Ontario Competition Department at otsc@skillscanada.com.

CHALLENGE STATUS:

This challenge is offered as an official challenge

PURPOSE OF THE CHALLENGE:

To provide competitors with the opportunity to demonstrate both through practical and theoretical application, their skills and task knowledge in the industry relevant to:

- Simple mechanical design and construction using LEGO Dacta.
- Problem solving in relation to a given case.

Demonstrating skills and knowledge of reading, drawings, building LEGO models and presentation skills.

SKILLS AND KNOWLEDGE TO BE TESTED:

- Group Work
- Sketches/Illustrations
- Discussion of Ideas
- Relations to Case Study
- Overall Presentation
- Problem Solving

EQUIPMENT AND MATERIALS:

Supplied by Skills Canada – Ontario Technical Committee:

- LEGO Robolab kit
- Every kit will have one (1) battery pack

Please Note: Tools and materials may change based on availability.

Supplied by Team:

Competitors must bring their own presentation materials. This may include pencils, paper, presentation board and any other items that may be used for the presentation.

Please note: Competitors are not to bring their own computer to the OTSC.

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SAFETY:

Safety is a priority at the Ontario Technological Skills Competition. At the discretion of the judges and technical chairs, any competitor can be removed from the competition site for not having the proper safety equipment and/or not acting in a safe manner.

1. It is mandatory for all competitors to wear CSA approved eyewear (including side shields for prescription eyewear).*
2. It is mandatory for all competitors to wear closed–toe shoes.*
3. Jewellery such as rings, bracelets and necklaces or any items deemed unsafe by competition judges shall be removed.*

*Competition judges will have final authority on matters of safety.

JUDGING CRITERIA:

Completion of Task		40
Design and Planning	Sketches and layout	15
Process Evaluation	Creativity and enthusiasm	15
Presentation		30
	Mark out of 100	**100 ***

As the rules state, there are no ties. If the score is tied after the contest, the Design and Planning component will be used as the tie breaker.

RULES AND REGULATIONS:

Please be sure to review all rules and regulations in the complete Elementary Competition Information Package, available online at www.skillsontario.com.

New rules and regulations in the Competition Information Package that will be enforced for 2012 include:

- Plagiarism
- Registration deadlines

Please review all rules and regulations and the registration process well in advance of the OTSC.

If there is any discrepancy between the English and French information in the scope, the English portion will be taken as the correct information.

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Immediate disqualification may occur at the discretion of the technical chair if a competitor displays any one of the following:

- Shows disregard for the safety of themselves or those around them
- Acts inappropriately
- Breaks the established rules and regulations including:
  - Uses equipment or material that is not permitted
  - Dishonest conduct (cheating)
  - Speaks with those outside the challenge area
  - Arrives to the challenge site late

Sign-in for all challenges will happen on the challenge site the morning of the competition. Registration must take place online prior to the deadline of March 23, 2012.

CLOTHING REQUIREMENTS:

Competitors are to be dressed in a clean and appropriate manner. Competitors are not permitted to wear clothing with logos or printing. The exception to this rule is the logo of the school or school board that the competitor is representing. ONLY the logo of the institution under which the space is registered can be visible. Corporate logos or names are not permitted on a competitor's clothing.

MEALS:

Skills Canada – Ontario will provide a basic lunch and a beverage for competitors. Lunch will be confirmed closer to the competition; no alternative meals will be provided. If the competitor has specific dietary needs, specific tastes or feels that they may require additional sustenance, it is recommended they bring the necessary food with them. If the competitor is part of a contest of a physical nature, it is highly recommended they bring additional snacks.

ANY FOOD BROUGHT TO THE VENUE MUST BE NUT FREE. ANY NUT PRODUCTS FOUND ON SITE WILL BE REMOVED.

PROJECTS:

After the completion of the Ontario Technological Skills Competition and judging, competitors will be responsible for disassembling assemblies and replacing parts into appropriate kits.

OTSC AGENDA:

April 30, 2012
Ontario Technological Skills Competition

8:00am – 8:30am	Sign-in at each challenge site
8:30am – 9:00am	Orientation

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9:00am – 12:00pm	Design and Construction
12:00pm – 12:30pm	Lunch
12:30pm – 2:30pm 2:30pm-3:30pm 3:30pm-4:00pm	Construction and testing Judging Disassembly and cleanup
4:00pm*	Awards Ceremony on the challenge site
*Time is approximate and will be dependant on judges completing their evaluation and tabulation of the scores	

Challenge Location: RIM Park and Manulife Financial Sportsplex, 2001 University Avenue East Waterloo – a map is available online at www.skillsontario.com/maps/maps.html.

Awards Ceremony Location: At each individual challenge site.

ADDITIONAL INFORMATION:

- The Elementary Competition Information Package can be found at www.skillsontario.com/elemcompinfopkg
- Results for the OTSC will be posted online starting Friday, May 4, 2012, at www.skillsontario.com.
- Information on the Conflict Resolution Procedure can be found on our website in the Elementary Competition Information Package.
- If you have any questions regarding the OTSC or this contest, please contact Skills Canada – Ontario or the technical chair prior to April 20, 2012, as all staff will be onsite setting up the following week.

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