



PRESENT THE

Extreme Sledding Competition
February 22, 2012

Recognizing that we live in a northern climate, it is time to have some fun and apply our technical skills!

Energized by a 4 person team, students will construct a human drawn sled, consisting of cardboard, 2- 2x4's, and a pull rope. Racing through a moto-cross style course, the competition will consist of two trips around the course alternating riders with the pulling team.

This experience will help with the development of new skills, including: leadership, teamwork, problem solving and design. Students who are up to this challenge, are guaranteed to come out and have a fun filled day.

Wednesday, February 22, 2012

Winnipeg Technical College
130 Henlow Bay, Winnipeg
Contest will be 9:00 am – 2:45 pm
Registration fee \$80.00 per team (includes lunch)
Advisors may pre-order lunch for an additional \$7.50

THE CHALLENGE

Teams of four students (from the same school) will design and construct a sled and then participate in a race through a moto-cross style course.

Sleds will be judged on design, quality of construction, teamwork\organization, safety\cleanliness, visual appeal, and speed. Each race will be timed and recorded by our panel of judges. Each team will compete in 2 heats, alternating their 2 riders and pullers.

Teachers:

Teachers(advisors) are only allowed to provide building advice before construction begins and during one 15 minute break. The challenge is designed to test problem solving skills and involves a broad base curriculum, including:

- Design research
- Durable construction techniques

- Aerodynamics
- Adhesives and bonding
- Team work
- Problem solving
- Visual appearance
- Physical fitness
- Leadership

ELIGIBILITY

- Junior High schools and Secondary Schools (grades 7, 8 & 9), four (4) students per team (at least one person on the team must be of the opposite gender)
- Please note registration is on a first come first - serve basis.
- Each team must have one teacher\advisor.
- Teams must be made up of students from the same school.
- Please fill out and return the registration forms by **February 10, 2012**.
- Fax or mail signed registration confirmation forms to Skills Canada Manitoba,
31-1313 Border Street, Winnipeg, MB, R3H 0X4
Fax # 204-927-0258

SLED SPECIFICATIONS

- Each team will be required to provide a team name. This name will be placed on the sled for identification purposes.
- Only the following materials may be used:

Tools and Material Supplied by Skills Manitoba:

- 1 - 4X8 sheet of ¼ " cardboard.
- 1 - 20 ft length of rope
- 1 - role of duct tape
- 1 - 500 ml can of contact cement
- 2 pr of protective gloves
- 2 paint brushes
- 2 - 6 ft 2X4's (wood)

Supplied by team:

- 1- Industrial (Manual Stapler) with staples
- 1 - Tape measure
- Marking devices such as sharpie, pens, pencils.
- Cutting devices, i.e. - scissors, utility knives.
- Decorations to enhance design
- Suitable clothing for outside activities. (Appropriate for weather conditions of the season)

Note: No other tools or equipment may be used in the construction of the sled. No hammering or other fastening devices not listed will be allowed. (If in doubt, please contact Skills Canada Manitoba prior to race day)
Electrical power will not be available at any time.

CONSTRUCTION RULES AND REGULATIONS

1. Each team must bring two copies of their sled design sketch or blueprint. (CADD drawings are permitted but are not necessary.)
2. The design must show evidence of originality and not just be something captured from a website.
3. One copy of the drawing will be submitted for evaluation on the day of the event.
4. Students will receive the standard list of materials and equipment on competition day and construct the project for judging in the afternoon.
5. Sleds must be designed to allow two team members to be fully contained within the structure of the sled.
6. Teams are permitted to bring materials with which to decorate their sled. Decoration must not aid in the speed or durability of the sled. Aerosol cans are strictly prohibited.
7. Teams are not permitted to use aids such as a full size prototype, to-scale patterns or prefabricated materials for tracing purposes.

RACE RULES AND REGULATIONS

1. Outdoor clothing appropriate for the weather must be worn during the race.
2. Sleds will race in two timed heats of 2 sleds per heat.
3. The two riders will alternate with the two team members pulling the sled for the two heats.
4. There will be no pushing or interfering of one team by another.

On the Competition Day

1. Teams should arrive at Winnipeg Technical College, Delta Rooms, Henlow Campus between 9:00 – 9:30 am for registration.
2. Lunch will be provided by Skills Canada Manitoba for student participants only. (Advisors may pre-purchase lunch)
3. Evaluation forms will be provided to all participating teams at Registration.

Schedule For the Day

9:00 am - 9:30 am	Arrivals and Registration
9:30 am - 9:45 am	Announcements and Instructions
9:45am - 10:45am	Sled Construction
10:45 am - 11:00am	Break(advisors may meet with team)
11:00am – 12:00pm	Sled Construction
12:00pm - 12:45pm	Lunch
12:45pm - 1:00pm	Sled touch ups & move to sled-cross course
1:00pm - 2:15pm	Sled Races

2:15pm - 2:30pm Evaluation (Teams will remove all sleds, change and move to Delta Rooms/Hot chocolate)

2:30pm – 2:45pm Design\Race Results & Awards

AWARDS Will be given for the following areas:

Best Design

Best Time

Best Decorated





2012
EXTREME SLEDDING COMPETITION
Registration Form

FORMS AND FEES (\$80 per team) MUST BE SENT TO THE SKILLS OFFICE BY February 10, 2012 (Space is limited. Please book early)

Please note that this event will be held at **Winnipeg Technical College, 130 Henlow Bay, Winnipeg**

PARTICIPANT INFORMATION

I AM A: (CHECK ONE) PARTICIPANT _____ ADVISOR _____

MALE _____ FEMALE _____ DATE OF BIRTH (MM/DD/YEAR) _____

NAME: _____

ADDRESS: _____

CITY: _____ POSTAL CODE: _____

Phone: _____ Medical Number _____

EMAIL _____

EMERGENCY CONTACT'S NAME: _____

EMERGENCY CONTACT'S PHONE: _____

SCHOOL: _____

ADVISOR'S NAME: _____

ADVISOR'S E-MAIL: _____

TEAM NAME: _____

VOLUNTARY INFORMATION

NATIVE ANCESTRY: (PLEASE CHECK ONE)

REGISTERED/STATUS FIRST NATION _____ NON-STATUS FIRST NATION _____

MÉTIS _____ INUIT _____

ARE YOU AN IMMIGRANT TO CANADA? YES _____ No _____

IF YES, WHAT IS YOUR COUNTRY OF ORIGIN? _____

CONDITIONS OF PARTICIPATION AND ATTENDANCE

Code of Conduct

Skills Canada Manitoba and all of its provincial and territorial members are dedicated to ensuring that everyone who attends a Skills Canada Manitoba event has an enjoyable experience with maximum attention paid to safety and comfort. Therefore, the Skills organization has established a mandatory "Code of Conduct." It is with this spirit of being a proud participant in a Skills event that I agree to follow these rules of professional conduct.

1. My conduct shall be exemplary at all times.
2. I will, at all times required, wear my identification badge/tag.
3. I will attend activities to which I am assigned and registered and will be on time.
4. I will adhere to the dress code and safety regulations at all times as required.
5. I will spend every moment in my assigned area.
6. I will respect all public and private property.
7. I will refrain from the use of alcoholic beverages and drugs (except prescribed medication).

PLEASE READ AND SIGN THE REVERSE

CONDITIONS OF PARTICIPATION AND ATTENDANCE (Con't)

The participant acknowledges that his/her chaperone is responsible for the participant from the participant's departure point until the return of the participant to his/her original point of departure. It should be noted that your assignment is voluntary and, as such, you agree to abide by the official Skills Canada Manitoba and all of its provincial and territorial members' "Rules and Regulations" and "Conditions of Participation" or forfeit your personal rights to attend and participate in the Extreme Sledding Competition. Violators may be sent home at their own expense. Proper notification of the violation and action taken will be sent to the organization responsible for the participant. In addition, the participant shall be responsible for any costs incurred by the Extreme Sledding Competition on behalf of the participant.

Liability Release

I/We hereby agree to release Skills Canada Manitoba and all of its provincial and territorial members, its representatives, agents, servants and employees from liability for any injury to the named person, resulting from any cause whatsoever occurring to the named person at any time while attending any Skills Canada Manitoba and all of its provincial and territorial members activities, including travel to and from these activities. I/WE hereby confirm that I am responsible for my health and that I acknowledge my/our responsibility to ensure that I/we protect myself/our child from any allergies (food or otherwise) or health concerns which may affect my/their ability to participate in Skills Canada Manitoba events. I/WE hereby agree to release Skills Canada Manitoba and all of its provincial and territorial members, its representatives, agents, servants and employees from liability resulting from medical conditions, including medications, allergies, disabilities and the like which may affect my ability to participate and/or which results in illness or death while attending any Skills Canada Manitoba and all of its provincial and territorial members activities, including travel to and from these activities.

Medical Acknowledgement

I/WE hereby acknowledge that I am medically fit and I have no medical conditions that would interfere with my attendance at the Extreme Sledding Competition and acknowledge my responsibility to disclose any medical condition that could compromise my safety or the safety of others while I attend or participate in the Extreme Sledding Competition. I/WE do voluntarily authorize Skills Canada Manitoba and all of its provincial and territorial members to obtain emergency medical treatment and diagnostic procedures for the named person as deemed necessary in reasonable medical judgment. I/WE agree to indemnify and hold harmless Skills Canada Manitoba and all of its provincial and territorial members for any and all claims, demands, actions, rights of action, and/or judgments by or on behalf of the named person arising from or on account of said procedures and/or treatment rendered in good faith and according to accepted medical standards.

Release of Information/Photos

I/WE understand and agree that any information pertaining to my participation in Skills Canada Manitoba and all of its provincial and territorial members' activities may be sent to other organizations; i.e. media, schools, organizations, my local Member of Parliament and/or Member of the Provincial Parliament, etc. I/WE agree that still photographs and videotapes of me taken during the course of Skills Canada Manitoba and all of its provincial and territorial members' activities become the property of Skills Canada Manitoba and all of its provincial and territorial members and may be used and reproduced by Skills Canada Manitoba and all of its provincial and territorial members in promotional materials and bulletins. I/WE also understand that Skills Canada Manitoba and all of its provincial and territorial members may communicate with me or with my parent or guardian if I am under the age of majority.

Having read and understood completely Skills Canada Manitoba and all of its provincial and territorial members' "Code of Conduct, Liability Release, Medical Acknowledgement, and Release of Information/Photos, and, by signing the Skills Canada Manitoba and all of its provincial and territorial members' Registration Form, I do hereby agree to follow the procedures and practices described.

Date

Signature of Participant

Signature of Parent/Guardian

****Note: Lunch for advisors is not included but may be pre-ordered for \$7.50. Please note that payment is due with submission of registration forms.**

Pre-order lunch? Yes _____ No _____