

Hydraulic Lift Challenge



Skills Manitoba together with CME has an exciting challenge for you. Challengers are required to create their very own hydraulic lift. Each challenger will be judged on visual design, construction and weight challenge!

**Registration required for this challenge.
Registration deadline is February 25th, 2021.
Maximum 100 registrations will be accepted.**

**Contest starts
March 22nd and
ends March 28th
at 12:00 p.m.**

**This contest will be judged in three age groups
- Grade K-4, Grade 5-8, Grade 9-12.**

1st, 2nd, and 3rd place winners will receive the following:

1st place-\$75, 2nd place-\$50, 3rd place-\$25.

All winners will receive Amazon e-gift cards.

Challenge Materials

Hydraulic Lift Kit will be provided by Skills Manitoba.

Paper, pencil, measuring tape or ruler, glue, 1 ziploc bag filled with 1 cup of sugar or salt, materials around the house for decorations, camera or phone

Challenge Rules

1. Watch video <https://www.youtube.com/watch?v=7vjxv5NZLPE>
2. Create blueprints, take picture of final blueprint.
3. Create hydraulic lift using materials provided and add materials from home. Do not be afraid to get creative and try different methods to build your lift. Take a photo.
4. Make sure to follow the legend below to see how you will be graded.
5. Take a video of your hydraulic lift lifting the white foam airplane.
6. Take a video of your hydraulic lift lifting the rubber duck.
7. Create a weight by adding 1 cup sugar or salt to a ziploc bag Take a video of your hydraulic lift lifting the bag of sugar/salt.
8. Please send blueprints, photos and videos, along with your name and grade level to skillsmb@skillscanada.com by March 28th at 12:00 pm

For more fun activities like
this one, check out this link:
<https://safeathomemb.ca>

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Judging/Scoring

Weight Challenge

Lifted foam airplane	10 points
Completed foam airplane lift and then lifted duck	15 points
Completed both foam airplane and duck lift, then completed sugar/salt lift	25 points

Overall Visual Design - Creative design, visual appeal

Challenger's submission was made from all materials provided in kit	10 points
Challenger's submission was made from all materials provided, and added additional materials	15 points
Challenger's submission was made from all provided materials, added materials and was decorated with some sort of theme	20 points

Design Plans

No plan was provided	0 points
Challenger had plans with measurements	10 points
Plans were to scale with measurements outlined. Provide length and width of lift in photo.	15 points
Plans were to scale with measurements outlined. Provide length and width of lift in photo. Straight edge was used. Lines neat and clean. Theme name on blueprints.	20 points

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