

MOTIVE POWER SECTOR - TRACTOR TRAILER COMMERCIAL DRIVER - TRUCK & TRAILER BUILD AND DESIGN

CHALLENGE

A Woman in Automotive: Meet Luella Bates

Bertha Benz, wife of Karl Benz, became known for taking the first long-distance drive, which paved the way for female truck drivers. Starting in WWI, women stepped in to fill the many vacant jobs left open by men heading off to war. Truck driving became one of those roles. From 1918 to 1922, Luella Bates became one of 150 women to test drive a new Model B truck for the Four Wheel Drive Auto Company. In addition to test driving, she would help identify and solve the many mechanical issues the trucks had. Her talents would later be recognized by her being able to stay on after the war, becoming the face of the company.



What is a Tractor Trailer Commercial Driver?

A tractor trailer commercial driver operates a diesel or gas powered tractor-trailer transporting goods across North America. They must also be able to map routes, update travel logs, complete inspections and have good concentration skills.

Your challenge is to build and design a tractor trailer using cardboard boxes as the bases, and then decorating the trailer using a skilled trade theme. You must also be able to identify additional skilled trade careers that are related to the maintenance of a tractor trailer.

Related Skills Ontario Contests: Truck and Coach

Relevant Skills: Planning and design, creativity, attention to detail

[Click here for a full list of all recognized Ontario skilled trades](#)

CHALLENGE MATERIALS

- Cardboard pieces or small rectangular cardboard boxes (e.g. Kleenex boxes, cracker boxes, tooth paste boxes, etc.)
- Scissors or exacto knife (have a teacher/parent/guardian assist you)
- Tape or glue
- Measuring tape or ruler
- Construction paper
- Markers/paint/pencil crayons

CHALLENGE INSTRUCTIONS

1. You must create your design on paper first. Include measurements, and your trailer artwork. Artwork must be representative of a career related to the skilled trades and technologies.
2. Using the materials listed above, create a tractor trailer. Your tractor trailer can be covered in paper or painted.
3. You will need to highlight what other skilled trade careers are used in the maintaining of a tractor trailer. Identify at least three.
4. **You will need to highlight what empowers you or how you empower others. See full submission details below**



JUDGING/SCORING

There are AMAZING prizes to be won and EACH CHALLENGE has first, second, and third place prizes! See website for more details!

Submissions will be marked using the following:

| Structure | Points |
|--|-----------|
| Tractor trailer is completed. No additional skilled trade careers identified. | 5 points |
| Tractor trailer is neatly and well put-together. Some embellishments added. At least 1-2 skilled trade careers identified. | 10 points |
| Tractor trailer is neatly and well put-together using a creative design and a variety of embellishments. 3 skilled trade careers identified. | 15 points |
| Tractor trailer is neatly and well put-together using an intricate design and a lot of embellishments. 4 or more skilled trade careers identified. | 20 points |
| Total Marks (Total out of 20) | |
| **REMEMBER: You will need to highlight what empowers you or how you empower others!** | |

| Design Plan | Points |
|---|-----------|
| No Plan was provided. | 5 points |
| Basic plan was provided, but with limited details. Trailer design does not have a skilled trade and technology theme. | 10 points |

| | |
|--|-----------|
| A detailed plan was provided. Trailer design does have a skilled trade and technology theme. | 15 points |
| A detailed plan was provided. Trailer design was creative and very representative of a skilled trade and technology theme. | 20 points |
| Total Marks (Total out of 20) | |

Challenger Total Marks: / 40 points

Submission

Submissions could be videos and/or pictures of your project. **You will need to highlight what empowers you or how you empower others!** This can be done in either voice recordings within a video, or through a written document that is photographed with your project.

Submissions are to be posted on Twitter between September 21st – October 11th. Tag **@skillsontario** and **@SkillsYWI** and use the hashtag **#SkillsIDG2022**. If you do not have Twitter, or are uncomfortable posting, please email your submission to lchester@skillsontario.com.

Skills Ontario will directly message winners on Twitter to let them know they won. If you choose to email your submission, we will reach you through the address you contacted us with. Winners will be publicly announced on **October 21st** on Twitter.