



TECHNOLOGICAL SKILLS CHALLENGES

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2025 DSBN REGIONAL CARPENTRY TEAM SKILLS CHALLENGE SECONDARY LEVEL SCOPE

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PURPOSE OF THE CONTEST:

To test the competitor's theoretical knowledge, practical skills, and abilities pertaining to standards within the carpentry industry.

EVENT DETAILS:

Date: Wednesday March 5, 2025

Time: 8:00AM (Arrival & Setup) to 3:00PM (Clean-up & Judging)

Location: Castle Niagara Building & Design Center, 2880 Hwy 20 East

ENTRY: Students must register online at [DSBN Technological Skills Challenges 2025 Registration](#) with all the required information completed to be eligible to participate.

SKILLS AND KNOWLEDGE TO BE TESTED:

- Theoretical knowledge of carpentry and general practices.
- Blueprint reading and interpretation.
- Design and layout of building materials
- Construction/Assembly of a project
- Safe operation of hand and power tools.

SAFETY REQUIREMENTS: Competitors are required to follow all “Industry Safety Standards” during the competition.

- It is mandatory for all competitors to wear CSA approved **EYEWEAR**.
- It is mandatory for all competitors to wear CSA approved **FOOTWEAR**.
- It is mandatory for all competitors to wear CSA approved **HARD HAT**
- Jewelry such as rings, bracelets, and necklaces or any item deemed unsafe by the competition judges must be removed.
- Proper shop attire must be worn
 - No Loose clothing, shorts, or gloves at any point in the competition

EQUIPMENT, MATERIALS, TOOLS, AND SUPPLIES:

Equipment Supplied by DSBN Tech and Castle Building Centre:

- All lumber required to complete the project (delivered to Skills Challenge)
- All consumables (hardware/wood screws)
- Hard Hats for competitors

Equipment Supplied by the Competitor:

- **All portable power tools must be provided by the school**
- **No corded tools are permitted**
- **Please ensure all batteries are charged and labelled with the school prior to attending**

<ul style="list-style-type: none">- You can bring any cordless tools the students are comfortable using. <p>Recommended Tools:</p> <ul style="list-style-type: none">- 2 circular saws- Jig Saw and/or Oscillating Tool- Impact Drivers and Drills <ul style="list-style-type: none">- ***BROOM, DUST PANS & GARBAGE CONTAINER***- Sawhorses and/or work tables- Ratchet and or Wrench ($\frac{3}{8}$")- Assorted Twist Drill Bits- Assorted Countersink Bits	<ul style="list-style-type: none">- Wood Chisel(s)- Carpenter’s Belt- #2 Red Robertson Screwdrivers (optional)- Carpenter’s Hammer(s)- Framing Square,- Speed Square(s)- Combination Square- Straight Edge- Imperial Measuring Tape(s)- Pencils
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CLOTHING REQUIREMENTS:

- Competitors are to be dressed in a clean appropriate manner.
- Competitors are to wear DSBN technology shirts.

- Competitors are not permitted to wear clothing with any other logo than the DSBN.
- **Safety Glasses, CSA Footwear and Hard Hat Required at “ALL TIMES”.**

PROJECT AND COMPETITION EXPECTATIONS:

- To be disclosed on **Thursday, February 13, 2025**

JUDGING CRITERIA:

- Judging will be conducted by specialists in Carpentry and representatives for the competition.

Criteria		Marks	Comments
Bench Base	Leg Length	/10	
	Leg Notch Spacing	/10	
	Fit of Leg Notches	/10	
	Horizontal Framing Length and Fit at corners	/5	
Back and Arm Rests	Back/Arm Rest Dimensions	/5	
	Back/Arm Rest Neatness	/5	
Seat Boards	Seat Board Overall Dimensions	/5	
	Seat Board are symmetrical and have ¼” gap between	/10	
	Notches are a tight fit to legs	/10	
General	Fastener Placement and Screws Flush to Surface	/5	
	Overall Aesthetic	/5	
	Safety	/10	
	Clean Workspace	/10	
Overall		/100	

- The trade skill component of this challenge is worth approximately **80%** of the overall mark. The judges will also evaluate the competitor’s working

knowledge of construction safety, level of independence, and clean-up.
Competitors will receive the blueprints and the evaluation **three (3) weeks** prior to the day of the challenge.

ENTRY:

- Students must be registered online prior to the **Deadline** with all of the required information completed to be eligible to participate.

TRANSPORTATION:

- Teachers and students are responsible for their own transportation to and from their respective schools on the day of the Carpentry Challenge.

TEACHER'S ROLE:

- Instructors are expected to acquaint their student participants with all of the enclosed guidelines.
- **Ensure all participants are familiar with all safety rules that are tools specific as well as workplace safety.**
- **Teachers/mentors or may not communicate with their teams during the build. Any questions from students should be directed to the Competition Chair.**

****Please Note: **** *Judges will be instructed to deduct marks from participants that are deemed to be receiving instructions from teachers during the build.*

SPECIAL INSTRUCTIONS AND GUIDELINES:

- The use of pneumatic tools is "PROHIBITED"
- Teachers and competitors are responsible for the removal of the project at the end of the Carpentry Challenge.

COMPETITION AGENDA:

<p>8:00 a.m. Arrival at Contest Site & Set Up - (Castle Building & Design Center)</p> <p>8:15 a.m. Orientation & Opening Remarks</p> <p>8:30- 8:45 a.m. Competition begins</p> <p>11:30-12:00 ***** Lunch (will be provided) *****</p> <p>2:30 p.m. Clean up - (Competitors/Schools are responsible for removal of Waste)</p> <p>3:00 p.m. Competition Ends - Final Judging and Closing Remarks</p>

**** Each competitor will be given a number by their coordinator upon registration at the location and will be judged anonymously during the competition.**

LOCATION:

- Castle Building & Design Center
2880 Hwy 20 East
Fonthill, ON