

Loyalist College – Carpentry Skills Competition

Secondary School Students (Team of Two)

CONTEST OBJECTIVE

The Loyalist College Carpentry Skills Competition provides secondary school students with the opportunity to demonstrate essential carpentry skills through the completion of a structured, industry-relevant practical project. The competition aligns with Skills Ontario carpentry competition standards and post-secondary program expectations.

The competition is designed to:

- Assess occupational skills consistent with entry-level carpentry training
- Reinforce safe work practices aligned with Ontario construction standards
- Promote craftsmanship, accuracy, and professionalism
- Develop teamwork, communication, and time management skills
- Prepare students for post-secondary carpentry programs and Skills Ontario-style competitions

OCCUPATIONAL SKILLS TO BE ASSESSED

Assessment Weighting:

- Practical Skills – 85%
- Technical Knowledge & Application – 15%

PRACTICAL SKILLS (85%)

- Safe and consistent use of hand and portable power tools
- Accurate layout, measuring, marking, cutting, drilling, and fastening
- Construction of components according to drawings and specifications
- Application of framing, joinery, and basic finishing techniques
- Jobsite organization, housekeeping, and hazard awareness
- Effective coordination and communication within a two-person team

TECHNICAL KNOWLEDGE & APPLICATION (15%)

- Reading and interpreting printed construction drawings
- Understanding construction terminology and symbols
- Applying jobsite math, geometry, and measurement skills
- Working within specified tolerances
- Completing tasks within the allotted competition time

CONSTRUCTION DRAWINGS & INTERPRETATION

- Interpret industry-standard printed drawings derived from digital drafting practices
- Understand plans, elevations, sections, and details

- Recognize drawing hierarchy and sequencing
- Translate drawing information into accurate physical construction

Note: Dimensions will be provided primarily in Imperial units, with occasional metric references.

BUILDING & CONSTRUCTION EXECUTION

- Maintain a clean, organized, and safe work area
- Construct assemblies that are plumb, level, square, and stable
- Execute accurate miters, angles, and cuts
- Apply appropriate joinery and fastening methods
- Demonstrate attention to workmanship and finish quality
- Minimize material waste through efficient planning and cutting

EQUIPMENT & MATERIALS – SUPPLIED BY HOST SCHOOL

- Framer's level
- Cordless circular saw
- Jigsaw
- Hand saw (8-point)
- Finishing saw (12-point)
- Cordless drill/impact driver
- Drill bits and driver bits
- Clamps
- Sawhorses (2)
- Lumber
- Fasteners
- Wood glue

EQUIPMENT & MATERIALS – SUPPLIED BY COMPETITORS

- Imperial tape measure
- Speed square
- Framing square
- Pencils
- Calculator
- Utility knife
- Wood chisels
- Carpenter's hammer
- #2 Robertson screwdriver
- Tool belt or apron
- Sandpaper (various grits)
- Sanding block
- CSA-approved hard hat
- CSA-approved safety glasses (side shields required)

- CSA-approved hearing protection
- CSA-approved safety footwear (steel toe, steel plate, ESR)

TOOL RESTRICTIONS

- Only tools listed above are permitted
- Any unauthorized tools must be removed immediately
- No exceptions will be granted

SAFETY REQUIREMENTS

- CSA-approved PPE must be worn at all times as required
- Loose clothing, jewelry, and unsafe accessories are prohibited
- Long hair must be secured
- Cell phones are not permitted on the shop floor
- Judges and Technical Chairs retain final authority on all safety matters

JUDGING CRITERIA (100 POINTS)

- Safety – 10
- Structural accuracy (plumb, level, square, stability) – 30
- Heights and dimensional accuracy – 10
- Component framing accuracy – 10
- Joinery and fastening quality – 20
- Finish quality – 10
- Efficient use of materials and waste reduction – 10

PRE-COMPETITION LEARNING RESOURCES (RECOMMENDED)

- WSPS Ontario – Construction safety and power tool operation videos
- Skills Ontario – Carpentry competition demonstration videos
- Manufacturer safety videos (DeWalt, Milwaukee, Makita) for tool operation fundamentals
- Ontario Ministry of Labour – Construction safety awareness resources

CONTACT INFORMATION

Tyler Robinson

trobinson@loyalistcollege.com