

# Loyalist College

## Skills Competition

Secondary School Students

### **PURPOSE OF THE CONTEST**

To provide competitors with the opportunity to demonstrate their skills and knowledge in the *Carpentry (2 person)* and building industries through practical, and theoretical application.

Build a competitor's confidence by enhancing their knowledge and promoting a healthy attitude toward discovering and managing future challenges.

Challenge a competitor utilizing real life construction skills in an effort to make students aware and prepared for Post Secondary Education.

Promote friendly competition and healthy positive attitudes by providing a safe and fair contest environment which measures success, ability and effort.

### **SKILLS AND KNOWLEDGE TO BE TESTED**

To evaluate each contestant's competency to organize and execute a given work assignment accurately and safely in the carpentry trade.

#### Practical 85%

Demonstrate safe use of hand and power tools

Practice job site management, housekeeping, and safety

Demonstrate knowledge and skill in; framing, cutting and drilling materials, fastening techniques, determining elevations, trim & finishing.

#### Theory 15%

Demonstrate the ability to read and interpret construction drawings and apply information

Demonstrate the ability to apply onsite math, geometry, and measurements

Ability to complete an assignment within a specified time frame

Demonstrate the ability to organize and work in a team environment

# Loyalist College

## Skills Competition

Secondary School Students

### **VARIOUS COMPONENT IDENTIFICATION AND DESCRIPTION**

#### **Ability To Interpret A Set Of Plans**

**\*Note\* All measurements will be in Imperial  
Read and interpret industry nomenclature**

#### **Understanding drawing views**

- Plans
- Elevations
- Sections
- Details
- Understand drawing organization and hierarchy
- Apply information to a project

#### **Ability To Use Tools**

- Work safely
- Ability to work with both hand and power tools
- Appropriate tool selection
- Understanding tool limitations
- Proper use of tools and procedures

#### **Building and Construction**

- Work safely
- Work site tidiness
- Ability to time manage and complete project
- Work quality and accuracy
- Project co-ordination
- Translate drawing information and measurements
- Attention to project details and construction methods
- Applying measurements and tolerances
- Utilize math and geometry to determine cut angles

# Loyalist College

## Skills Competition

Secondary School Students

- Ability to cut miters accurately
- Application of various joinery methods
- Understanding of drilling and material fastening

## EQUIPMENT AND MATERIALS

**Loyalist College will supply the following:**

Measuring/ Layout	Cutting Tools	Assembly Tools	Miscellaneous
Rafter Quick Square	Power Miter Saw	Cordless Drill	Sawhorses 2
Framing square	Jigsaw	Clamps	CSA Eye Protection
Framer's Level	Hand saw (8 point)	Drill Bits	Lumber
Sliding T-Bevel	Finishing saw (12point)	Driver Bits	Fasteners
	Cordless circular saw		Glue

**Supplied by competitor:**

Measuring/Layout	Cutting Tools	Assembly Tools	Miscellaneous
Pencils	Utility knife	Carpenters hammer	Apron/Tool belt
Imperial tape measure	Wood chisels	Screwdriver(#2 robertson)	Sand paper (various grits)
Calculator			Sanding block
			CSA work boots
			CSA hard hat
			CSA ear protection

**\*Note\***

### Exception for above Equipment and Materials

No exceptions

### Additional Tools

**Any competitor that brings tools not mentioned above will be asked to remove them from the contest site.**

# Loyalist College

## Skills Competition

Secondary School Students

### Tool Usage

Competitors will need to be knowledgeable in the use of a framing square and a combination or speed square. The following links direct you to online tutorials on how to use these tools.

<http://www.wonderhowto.com/how-to/video/how-to-use-a-framing-square-198506/>

<http://www.wonderhowto.com/how-to/video/how-to-use-a-rafter-angle-square-78922/>

<http://www.wonderhowto.com/how-to/video/how-to-use-a-combination-square-78936/> ALL

competitors are required to be familiar with and able to demonstrate the correct use of the tools (in particular Power tools) as described in the Construction Health and Safety Manual

<http://www.healthandsafetyontario.ca/HSO/Home.aspx>

<http://www.wsps.ca/Information-Resources/Topics-and-Hazards.aspx>

<http://www.labour.gov.on.ca/english/hs/topics/construction.php>

### SAFETY

Safety is a priority at the Loyalist College Skills Competition. At the discretion of the judges and technical chairs, any competitor can be removed from the competition site for not having the proper safety equipment and/or not acting in a safe manner.

- 1.** It is mandatory for all competitors to wear CSA approved hard hats
- 2.** It is mandatory for all competitors to wear CSA approved eyewear (including side shields for prescription eyewear).\*
- 3.** It is mandatory for all competitors to wear CSA approved footwear.\* (Steel Toed, Steel Belted, ESR)
- 4.** It is mandatory for all competitors to wear CSA approved hearing protection while using loud machinery (tools)
- 5.** Jewelry such as rings, bracelets and necklaces, or any items deemed unsafe by competition judges, shall be removed.\*
- 6.** Proper shop attire is to be worn (no loose straps, baggy sleeves). Any attire, that is deemed unsafe by competition judges, will not be permitted.\*
- 7.** Cell phones are not permitted on the shop floor
- 8.** Any competitor with long hair must tie up and affix hair so that it does not pose a hazard. Judges will monitor and may ask competitor adjust hair should it become a hazard.

**\*Competition judges will have final authority on matters of safety**

## Loyalist College

Skills Competition Secondary School Students

<b>JUDGING CRITERIA POINT BREAKDOWN /100</b>	Secondary
Safety	10
Overall frame – (stability / level)	25
Heights and measurements	10
Component framing	10
Joinery	20
Finish	10
Efficient use of materials	10

### **TIE BREAKER**

If two or more participants are tied in points at the end of the competition, the following shall apply to determine the placing:

**Step 1.** Re-evaluate the affected projects with different judges.

**Step 2.** Participant with the highest Safety score.

**Step 3.** Participant who has completed the project in the least amount of time.

### **RULES AND REGULATIONS**

Please be sure to review all rules and regulations in the Complete Competitor Information Package. Immediate disqualification may occur at the discretion of the Technical Chair if a competitor displays any one of the following:

- Acts inappropriately
- Shows disregard for the safety of themselves or those around them
- Breaks the established rules and regulations including:
  - Uses equipment or material that is not permitted
  - Dishonest conduct (cheating)
  - Speaks with those outside the contest area
  - Arrives to the contest site late

## **Loyalist College**

Skills Competition

Secondary School Students

### **CLOTHING REQUIREMENTS**

Competitors are to be dressed in a clean and appropriate manner, and follow previously stated safety policy

### **ANY QUESTIONS PLEASE CONTACT**

Larry Burnett

**lburnett@loyalistcollege.ca**