



2010 SKILLSUSA  
MICHIGAN CARPENTRY  
COMPETITION

TASK & MATERIALS LIST

**SITE:** The Summit, Lansing, MI  
April 16<sup>th</sup> – 18th, 2009

Actual competition to be held on Saturday, April 17<sup>th</sup>, 2008

**PURPOSE:**

To evaluate each contestant's preparation for employment and to recognize outstanding students for excellence and professionalism in the field of residential carpentry.

**SAFETY REQUIREMENT:**

Both the instructor and the contestant certify by agreeing to enter this contest that the contestant has received instructions and has satisfactorily passed an examination on the safe use of a portable power saw. They also certify that the contestant's saw has been thoroughly inspected and is in safe working condition. Further they agree that SkillsUSA Inc., the Michigan SkillsUSA Championships technical committee and state judges are released from all responsibility relating to personal injuries resulting from its use. Contestants will be removed from competition if proper training has not been provided and/or they are using equipment in an unsafe manner.

**UNSAFE WORK PRACTICES:**

**Contestants to be issued one (1) Unsafe Work Practices Warning.  
Immediate disqualification for second Unsafe Work Practice Violation.**

**CONTESTANT PROVIDED PERSONAL PROTECTION EQUIPMENT (PPE)  
AND CLOTHING REQUIREMENT:**

HEAD PROTECTION: Per MIOSHA Part 6 Personal Protective Equipment, R408.40622

SAFETY GLASS: Per MIOSHA Part 6 Personal Protective Equipment, R408.40624

WORK BOOTS: Per MIOSHA Part 6 Personal Protective Equipment, R408.40625

WORK GLOVES: Rubber coated palmed, white knit. Must wear during metal stud work.

HEARING PROTECTION (Recommended)

CLOTHING: No loose fitting or sagging clothing. Long pants only cinched at waste with belt.

Shirts tucked. No lettering or logos of sponsoring school or program. No inappropriate graphics or images.

JEWELRY: No dangling jewelry. Rings to be removed or tapped over.

HAIR: Long hair to be tied tightly to scalp.



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**Contestants to be disqualified for incomplete or inappropriate PPE or clothing.  
Contestants to be issued one PPE Warning for not wearing PPE at all times of competition.  
Immediate disqualification for second PPE Violation.**

***MATERIAL MANAGEMENT:***

Contestants will each be provided the necessary materials to complete their project. Each contestant shall verify the provided materials match the project material list. In the event a contestant makes an error requiring additional material, they **MUST** inform the head judge to request additional materials. There will be a minimum 25-point deduction. Unauthorized material acquisition will be a 100-point deduction.

***CONTESTANT PROVIDED TOOLS AND EQUIPMENT:***

Tool Belt	Utility Knife w/ retractable blade	Stair Gauges
Tape Measure (min. 25-foot length)	Circular Saw	Speed Square
Carpenters Pencils	Cats Paw (nail puller)	Chalk Line Box w/ chalk
Framing Hammer	Flat Bar	Nail Set
Straight Claw Smooth Head Hammer	Framing Square	3/4 -inch Chisel
2-foot level	4-foot level	Extension Cords: 1- 25', 1- 50', 1-100'
GFI Protected Multi-Plug or Power Strip	Broom & Dust Pan	Tin Snips
4-in-1 Screw Driver	Calculator	1 Pair of Slip-Joint or Lineman's Pliers
2-foot or 4-foot Step Ladder	Slap-Stapler	1 Pair of Saw Horses
Pneumatic Finish Nailer* w/ 1 1/2-inch and 2 1/2-inch nails	Drywall Square	Coping Saw
Screw Gun or Driver/Drill	Power Miter Box*	Air Compressor*
Reciprocating Saw	Air Hose for Nailer	Hand Saw

**\*Contestants to coordinate with sponsoring programs to acquire these tools if necessary.**



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**All tools to be inspected and approved prior to beginning competition by Tool Inspector. Any tool not in sound and safe condition to be replaced by competitor as directed by the Tool Inspector. All unauthorized tools to be removed from competition area. Competitors who fail to provide the required tools or use non-authorized tools will be disqualified.**

***COMMUNICATION or SUPPORT:***

Contestants to have no communication or support from instructors, parents or other contestants from the start of the written exam until the end of the project build-out. No project specific related conversations to take place during 30-minute break.

***SCHEDULE:***

**Saturday, April 17<sup>th</sup>, 2008:**

7:30am - 8:15am:	Contestant Set-Up & Tool Check-In
8:15am - 8:45am:	Written Exam
9:00am - 9:15am:	Pre-Construction Meeting
9:30am - 2:00pm:	Project Build-Out
11:30am - 12:00pm:	Mandatory 30-Minute Break (no work can be conducted)
2:00pm - 2:30pm:	Project Final Judging
2:30pm - 3:00pm:	Raze Projects/Clean Up

**Note: All contestants to stay in competition area until all projects are razed, all materials are stacked and competition area is swept.**

***SCOPE OF CONTEST:***

1. Contestants will need to demonstrate their competency as compared to commonly accepted real-world work standards and practices found in the construction industry as represented by the MI SkillsUSA Carpentry Committee. This committee will be comprised of commercial contractors, new home builders, residential remodelers and other construction professionals. Contestants to show general and specific knowledge in the following areas in writing and/or demonstration:
  - a. **Building Code**
    1. Identify specific building code requirements.
  - b. **Blueprints and Specifications**
    1. Interpret and determine dimensions and orientation from multi-view drawings.
    2. Interpret specifications and drawing notes.
    3. Interpret oral and/or written field changes.



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4. Understand common construction abbreviations and symbols.
- c. **Building Site**
  1. Orient structure properly on lot.
  2. Keep work area neat and orderly.
- d. **Building Materials**
  1. Identify, receive and inspect materials.
  2. Properly stage lumber and materials.
- e. **Rough Framing**
  1. Identify and select framing members.
  2. Frame and brace wood stud walls and metal stud walls to include: headers, corners, window rough-openings, fixture backing and sheathing.
- f. **Roof Framing**
  1. Identify types and components of roof construction.
  2. Determine rafter lengths.
  3. Calculate and use the rise and run of a common roof.
  4. Lay out a common roof plan.
  5. Lay out, cut and install hip, gable and common rafters.
- g. **Interior Finish**
  1. Install gypsum board.
  2. Jamb and trim window.
  3. Cut, cope and install trim.
- i. **Stairs**
  1. Identify staircase components.
  2. Calculate rise and run.
  3. Layout stringer.
- j. **Lumber**
  1. Match common hardwoods and softwoods to their uses.
  2. Identify types of trim and moldings.
  3. Identify types and uses of dimensional lumber.
  4. Identify types and uses of 4x8 sheet products.
- k. **Time Limit**
  1. Written Exam: 30-minutes.
  2. Project Build-Out: 4 ½ hours.
- l. **Green Building Principles**
  1. Be able to identify Green building principles.

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 RATING SHEET PAGE - - 2

ITEMS EVALUATED	CONTESTANT NUMBER																
	POSSIBL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<b>SAFETY</b>	<b>100 PTS</b>																
Safe use and care of tools	50																
Housekeeping during contest	50																
<b>SUB TOTAL</b>																	
<b>GENERAL AREA</b>	<b>100 PTS</b>																
Quality of workmanship and good use of materials	50																
Ability to follow written directions, drawings, and sequence of construction	50																
<b>SUB TOTAL</b>																	
<b>WRITTEN TEST</b>	<b>100 PTS</b>																
<b>SUB TOTAL</b>																	
<b>RESUME</b>	<b>0 or 50</b>																
<b>MATERIAL DEDUCTION</b>																	
<b>SUB TOTAL</b>																	
<b>TOTAL POINTS POSSIBLE</b>	<b>1000</b>																

RATING SCALE OF ITEMS SCORED (% of possible points):

POOR (0-25%), FAIR (26-50%), AVERAGE (51-70%), GOOD (71 - 90%), EXCELLENT (90 - 100%)

JUDGE'S SIGNATURE \_\_\_\_\_

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 RATING SHEET PAGE -- 3 USE FOR TIE BREAKER ONLY

ITEMS EVALUATED	CONTESTANT NUMBER																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Trim Install																	
Birds Mouth																	
Birds Mouth Cut																	
Fascia Size																	
Soffit Size																	
Calculated Length																	
Ridge Height																	
Correct Pitch																	
Correct Nailing																	
<b>TOTAL POINTS SCORED</b>																	

RATING SCALE FOR TIE-BREAKER ITEMS COVERED:  
 3 POINTS FOR "+" OR "-" 1/16"  
 2 POINTS FOR "+" OR "-" 1/8"  
 1 POINT FOR "+" OR "-" 1/4"

JUDGE'S SIGNATURE \_\_\_\_\_