

TASK & MATERIALS LIST

SITE: The Summit
Lansing, MI
April 21, 2012

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:

All competitors must present a valid OSHA 10-hour certification card prior to the beginning of the contest. Contestant's not providing their OSHA 10-hour card will have 100 points deducted. 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 carpentry hand tools and small power tools. They also certify that the contestant's tools have been thoroughly inspected and are 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 or other coated work gloves. 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 taped over.

HAIR: Long hair to be tied tightly to scalp.



**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. Immediate disqualification for stealing materials from another contestant.

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 |
| Hand Saw | Broom & Dust Pan | 2 Extension Cords: 1- 25', 1- 50' |
| 4-in-1 Screw Driver | Calculator | Tin or Aviation Snips |
| 2-foot or 4-foot Step Ladder | Coping Saw | 1 Pair of Slip-Joint or Lineman's Pliers |
| Screw Gun or Driver/Drill | Reciprocating Saw | 1 Pair of Saw Horses |
| Pneumatic Finish Nailer* w/ 1 1/2-inch nails | Air Hose for Nailer | Air Compressor* |
| Multi-Plug or Power Strip | Power Miter Box* | |
| Clamps for holding materials while cutting. | Vise-grips or metal stud clamps. | |

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



All tools to be inspected and approved prior to beginning competition by Judges. Any tool not in sound and safe condition to be replaced by competitor as directed. All unauthorized tools to be removed from competition area. Competitors who use non-authorized tools will be disqualified. Not bringing a listed tool does not disqualify a participant from competing.

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:* ALL Contestants expected to remain in the competition area until released by the Head Judge after clean up.**

Saturday, April 21, 2012:

| | |
|--------------------|--|
| 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 - 4:00pm: | Deconstruct Projects/Clean Up Contest Area |

Note: All contestants to stay in competition area until all projects are deconstructed in a safe manner while wearing all PPE. All materials are to be stacked and competition area cleaned to the satisfaction of the Head Judge. This aspect of the contest will be scored as part of the competition.

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.
4. Understand common construction abbreviations and symbols.
- c. **Building Site**
 1. Orient structure properly on lot/site.
 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. **Deconstruction**
 1. Proper disassembly of building components.
 2. Removal of all nails.
 3. Neat and orderly stacking of salvaged materials.
- l. **Green Building Principles**
 1. Be able to identify Green building principles.
- m. **Time Limit**
 1. Written Exam: 30-minutes.
 2. Project Build-Out: 4-hours

#####

2010 SkillsUSA Michigan Championships CARPENTRY RATING SHEET

| ITEMS EVALUATED | POSSIBLE | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|--|------------------|---|---|---|---|---|---|---|
| WALL & PARTITION WALL | 250 PTS | | | | | | | |
| Plates laid out correctly (16"oc) | 100 | | | | | | | |
| Parts cut to proper length (plates, studs, track, sill, trimmers, headers, cripples, | 50 | | | | | | | |
| Window located in wall | 50 | | | | | | | |
| Constructed properly with correct nails/fasteners | 25 | | | | | | | |
| Walls plumb & braced correctly | 25 | | | | | | | |
| SUB TOTAL | | | | | | | | |
| ROOF FRAMING | 250 PTS | | | | | | | |
| Rafters laid out and cut (proper length, crown up, birds mouth, neat cuts) | 75 | | | | | | | |
| Rafters installed correctly Hurricane Clips installed | 75 | | | | | | | |
| Decking installed properly | 50 | | | | | | | |
| Fascia installed properly | 50 | | | | | | | |
| SUB TOTAL | | | | | | | | |
| STRINGER FRAMING | 100 PTS | | | | | | | |
| Unit rise even and unit run | 50 | | | | | | | |
| Proper top step and bottom step adjustments | 50 | | | | | | | |
| SUB TOTAL | | | | | | | | |
| INTERIOR TRIM | 50 PTS | | | | | | | |
| Casing miters tight and reveals even | 25 | | | | | | | |
| Jamb extension square & flush | 25 | | | | | | | |
| SUB TOTAL | | | | | | | | |
| SAFETY | 100 PTS | | | | | | | |
| Safe use and care of tools | 50 | | | | | | | |
| Housekeeping during contest | 50 | | | | | | | |
| SUB TOTAL | | | | | | | | |
| GENERAL AREA | 100 PTS | | | | | | | |
| Quality of workmanship and good use of materials | 50 | | | | | | | |
| Ability to follow written directions, drawings, and | 50 | | | | | | | |
| SUB TOTAL | | | | | | | | |
| WRITTEN TEST | 100 PTS | | | | | | | |
| RESUME | 0 or -50 | | | | | | | |
| MATERIAL DEDUCTION | | | | | | | | |
| OSHA Card | 0 or -100 | | | | | | | |
| DECONSTRUCTION | 50 | | | | | | | |
| TOTAL POINTS POSSIBLE | 1000 | | | | | | | |