

2021 MICHIGAN SKILLSUSA CHAMPIONSHIPS

TASK & MATERIALS LIST

SKILL OR LEADERSHIP AREA: CARPENTRY

CONTEST LOCATION:

Virtual

Students Must Submit:

-RESUME:

Each student must submit a one-page printed resume before the contest start at the contest site (present to contest coordinator, not judges). The resume is no longer submitted online. This is the only time that resumes can be turned in. Failure to do so will result in a 10 point penalty.

-SKILLSUSA LIABILITY FORM

-OSHA 10 CERTIFICATION

All competitors must present a valid OSHA 10-hour certification card prior to the beginning of the contest. Contestants not providing their OSHA 10-hour card will not be allowed to compete, including the written test.

CONTEST INFO:

- ***Please refer to the National Technical Standards for detailed information related to this contest.***
- How to access SkillsUSA National Technical Standards:
https://www.youtube.com/watch?v=aR9Jet0PRP8&feature=emb_logo
- National Contest Updates are located:
<https://www.skillsusa.org/competitions/skillsusa-championships/contest-updates/>

CLOTHING REQUIREMENT (if different from National contest):

- Clothing must be appropriate and safe for the work environment
- No logos, no names, all identifying information must be covered
- 2021 only – no deductions will be made if official dress is not available

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 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.

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:** required per OSHA
- **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.**

CONTESTANT PROVIDED TOOLS AND EQUIPMENT:

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| <ul style="list-style-type: none"> • 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/Milled Head Hammer • Framing Square • 3/4 -inch Chisel • Hand Saw | <ul style="list-style-type: none"> • 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 • Multi-Plug or Power Strip • Clamps for holding materials while cutting • Vise-grips or metal stud clamps. • Sack lunch |
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CHAPTER AND/OR CONTESTANT PROVIDED MATERIAL:

- None

CONTEST REQUIREMENTS:

Contest and Project details will be released via email and/or Conference LMS prior to contest dates. Contestant scores from Project Picture submission, Project Demonstration and Technical Interview, and Technical Assessment will be used to evaluate contestant's overall score. The highest overall score (minus any penalty points) will be chosen as the national qualifying contestant.

1) TECHNICAL ASSESSMENT

- Student will complete the technical assessment on the Conference LMS. Technical Assessment due April 9, 2021 by 5:00 p.m. EST
- Technical assessments are created to reflect national technical assessments
- There are no study guides
- 50 questions
- 60 minutes
- Refer to the national technical standards for information regarding this contests required skills and competencies.

2) PROJECT BUILD:

- Project details will be released via email and/or Conference LMS prior to contest date
- Student will complete project on required date. Student will work alone and receive no outside assistance during build time.
- **DATE:** Student will build the project on required date.

- FOCUS: Student technical skill
 - VERIFICATION:
 - Student will take pictures of final project to show quality of work and conformation to blueprint. (no more than 10 pictures)
 - Advisor will assist with photos to show measurements were accurate.
- 3) PROJECT DEMONSTRATION AND TECHNICAL INTERVIEW
- Demonstration/Interview will take place on April 19, 2021 starting at 9:00 a.m. EST.
 - Demonstration: Students will have 5-10 minutes to explain their project build
 - This explanation should include tools used, strategies for build, techniques used, technical skills required.
 - This explanation should also include the 10 pictures taken to prove work was completed with quality workmanship and meets blueprint
 - This explanation should include one statement, “The part I am the most proud of ____” and why
 - This explanation should include one statement, “The part that gave me the most trouble was ____” and why.
 - Interview: 5-10 minutes will be dedicated to the judge interviewing the contestant with several interview questions related to the project and student’s skills related to the career field.

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 multiview 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. **Stairs**
 1. Identify staircase components.
 2. Calculate rise and run.

3. Layout stringer.

h. **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.

i. **Green Building Principles**

1. Be able to identify Green building principles.

Revised 2/10/21

TENTATIVE CARPENTRY QUALITY RATING SHEET	
ITEMS EVALUATED	POSSIBLE
WALL & PARTITION WALL	250 PTS
Plates laid out correctly (16" oc)	100
Parts cut to proper length (plates, studs, tract, 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 correctly	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	
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 and drawings	50
SUB TOTAL	
UNSAFE WORK VIOLATION	0 or -25
TOTAL POINTS POSSIBLE	1000

Carpentry Demonstration / Interview Rubric

	Excellent interview: You should get a job offer!	Average interview: You could get called back, but it is not certain.	Interviewing skills need significant improvement: You would not get this job.
	Great demonstration of technical skills.	Average demonstration of technical skills.	Poor demonstration of technical skills.
Scoring Range			
First Impression	Your appearance is professional (clean, groomed, dressed neatly and appropriately). Your conversation is enthusiastic and engaging. You show confidence in your body language and communication.	You look nice (might need a few pointers in dress, grooming, etc.) Your conversation is somewhat enthusiastic and engaging. You show some confidence in your body language and communication.	You do not look prepared (you need to consider your appearance for an interview). Your conversation is not energetic and you did not show confidence in your body language or communication.
Interview Questions	Student's answer to this question shows s/he has a strong understanding of the career requirements of this field and demonstrates strong knowledge of technical skills	Student's answer to this question shows s/he has a some understanding of the career requirements of this field and demonstrates some knowledge of technical skills	Student's answer to this question shows s/he has a little understanding of the career requirements of this field and demonstrates poor knowledge of technical skills
Project Demonstration	Student demonstrated thoroughly that project was completed with skill and quality workmanship.		
Project Demonstration	Project appears to meet all blue print, OSHA, and building code requirements		
Project Quality			
OSHA 10 certification	Missing – disqualified		
Resume	Missing – 10 point penalty		
Liability form	Missing – disqualified		
Total DEMO/INTERVIEW	Score: /100	*25%	
Total PROJECT QUALITY	Score: /1000	*50%	
Total TECHNIAL ASSESSMENT	Score: /100	*25%	
Total Overall Score			

Comments:

Judges Signature: _____