



2022 Skills USA Kansas State Championship

COMPETITION INFORMATION PACKET

TEAMWORKS COMPETITION

April 26-28, 2022

Meadowlark Building

Hutchinson, KS

SkillsUSA, a non profit organization, empowers its student membership to become world-class workers, leaders and responsible American citizens.

SAFETY

- Safety Glasses are required. **Safety glasses will REQUIRED & PROVIDED BY EACH STUDENT.**
- Prescription glasses are required to have side shields. If you do not have side shields then goggles must be worn.
- Hard hats are required. **Hard hats will be REQUIRED & PROVIDED BY EACH STUDENT.**
- OSHA 10 certificates will need to be shown Tuesday afternoon, turned in with test materials.
- If contestants are found to be improperly trained and/or they are using the equipment in an unsafe manner they will be removed from the competition.
- Contact an Event Representative when soldering: Work must be supervised & Fire Extinguishers are on site.

CLOTHING

- Required: Skills T-shirt, clean blue jeans and leather work soled shoes.
- NO tennis shoes

EQUIPMENT

- Competitors will be required to bring their own tools. These tools are listed in the next pages. This is a basic list, if you notice something that has been missed please let me know. Cordless Tools are acceptable.
- There will be no extra materials or supplies allowed to be brought into the competition. There will be extra material on site from the chairperson but can only be used for point deductions.

SCOPE

- Resumes are required. They will need to be turned in to the TeamWorks Chairperson (Bryan Newell) on Tuesday with your test (bring 2 copies)
- There is a written test that will cover the four categories of the build. Carpentry, Masonry, Plumbing and Electrical.
- Each student will take a PDP Exam.
- Each team will be given the project drawing for one hour on Tuesday at 5:00 pm. After the hour review time you will give the drawings back to the Chair.
- The Chairperson asks for your help in shaking out the material
- Tuesday evening will be the start of the build.
- Build includes carpentry, plumbing, electrical, drywall and masonry.
- Questions: If the questions relate to needing help with the build, whether how to read the drawings, how to make a cut, whatever, they will be asked, "If they want the chair to answer this question, it will cost them a point deduction." If it is a discrepancy on the drawings or a general question no deductions will be taken.

NEW ITEMS FOR 2022: TRADE CHALLENGES

- **There will be a plumbing challenge. A small assembly of pipe will be soldered, pressurized and checked in a water bucket for leaks.**
- **There will be an electrical challenge. Students will review an electrical installation and trouble shoot potential problems.**

CONTEST AGENDA

- Tuesday, April 26, 2022
 - 8:00 - 12:00 Material & Equipment Deliveries
- Tuesday, April 26, 2022
 - 12:00-4:00 Team Arrivals & Set Up
 - 4:00-5:00 Team Work's Skills Written Test & PDP Test
 - Written Test is a Team Test, Turn in one copy only
 - PDP Test is an individual Test
 - 5:00-6:30 Plans Distributed to Teams, prep time for presentation.
 - 5:30 Pizza Dinner and Drinks Provided
 - 6:30-7:00 Team Presentations to judges.
 - 7:00 - 8:00 Material Shake Out & Base Building May Begin
- Wednesday, April 27, 2022
 - 7:00-7:30 Safety Briefing
 - 7:30 – 12:00 Build
 - 12:00 – 12:30 Lunch (provided by SkillsUSA)
 - 12:30 – 5:00 Build
- Thursday, April 28, 2022
 - 7:00 – 12:00 Build
 - 12:00 – 12:30 Lunch (provided by SkillsUSA)
 - 12:30 – 2:00 Build
 - 2:00 – 3:00 Final Project Judging
 - 3:00 – Completion Complete Clean Up, Dismantle, help load out, store salvage items.
- Friday, April 29, 2022
 - 1:00 pm Awards Ceremony

GENERAL ITEMS

- Call in for inspections
 - Framing
 - Plumbing
 - Electrical
- Do not glue the pvc bushing into the washer box
- Masonry – we will have wheel barrows and premixed mortar. Just add water and mix.
 - Install the masonry on top of plastic. A roll of visqueen is available.
- It is ok to ask questions. Will not tell you how to do a task but we are here to help to some extent.
- Extra Material
 - We have some extra material, but it will cost you a deduction in points if you have to use it.
- Tie Breakers
 - Safety
 - Building a set of stairs
 - Number of deductions

RECOMMENDED STUDENT TOOLS

- Tool Bags – Tape measure, speed square, hammer, pencil, chalk box, chalk, utility knife, pliers.
- Levels – 2' and 4'
- Screw guns and tips. #2 and Drywall countersink
- Power cords and GFCI Three way
- Circular saw
- Framing Square
- Key Hole Saw
- Hole Saws for plumbing
- Saw Horses
- Two Ladders 6' or 8'
- Masonry – Trowel, Pointing/Caulking tool, Brick Rule/Tape, String line, String line Block, Brush, Shovel, Mortar Board, five gallon bucket.
- Electrical – Pliers, Wire cutters, Wire strippers, Drill, $\frac{3}{4}$ " bit to punch studs, Screw Drivers, Needle Nose Pliers
- Plumbing – Hack Saw/Reciprocating Saw, Hole Saws 2", Hand wrenches.
- Small socket set
- Nut Driver set
- Copper pipe cutter
- Portable torch – standard propane or map gas for soldering
- Metal Snips – Right Hand, Left Hand and Center cut
- Other tools not on this list may be utilized.

TOOLS PROVIDED BY THE COMPETITION:

- Wheelbarrows, Shovels, Mortar Stands – Mortar will be mixed by hand.
- Compound Miter Saw & Stand – for window trim only.
- Fire Extinguisher for plumbing soldering.

***** YOU WILL NOT HAVE TO BRING YOUR OWN BASE, IT WILL BE BUILT AS PART OF THE COMPETITION**

***** MATERIALS FOR THIS COMPETITION ARE 100% INDUSTRY SUPPLIER DONATED.**

IF YOUR TEAM CANNOT MAKE THE COMPETITION, SKILLSUSA MUST BE NOTIFIED BY FRIDAY APRIL 15, 2022, (APRIL 22, 2022 – AT THE VERY LATEST), SO DONATED MATERIALS CAN BE REDUCED!

***** Each Team is responsible for the breakdown of their own structure – Lifting Equipment and operator provided for the competition.**

Structure Break Down Procedure:

1. Remove Brick & Mortar Place in Brick & Mortar Dumpster
2. Clean & Scrape **ALL** Mortar from floor.
3. Dispose of Plastic.
4. Remove Drywall & Screws. Dispose of drywall.
5. Remove ALL PLUMBING COMPONENTS:
 - a. RETURN WASHER BOX TO CHAIR PERSON
 - b. RETURN LONG PIECE OF COPPER PIPE TO CHAIR PERSON
6. Remove ALL ELECTRICAL COMPONENTS – Dispose
 - a. RETURN ELECTRICAL PANEL, FIXTURES & DEVICES TO CHAIR PERSON
7. Remove Door & Window Intact: Load into Chair Trailer
8. Remove interior walls, prepare to be stacked later.
9. Dis-assemble framing:
 - a. Remove roof rafters and ceiling joists.
 - b. Sawzall each wall into an individual wall panel, stack walls
 - *** Be careful of all protruding nails.**
 - c. Dispose of all cut lumber
 - d. Help haul stacked floor and wall panels into dumpster.
 - e. Load full length lumber in to Chair trailer.
10. Final Sweep Clean all work & event areas.
11. Dispose of all waste materials.