



CONSTRUCTION

Event Specifications

FRESNO CITY COLLEGE EVENT CONTACT For any specific event questions, please contact:	
NAME:	Ricco Guajardo
EMAIL ADDRESS:	Ricco.guajardo@fresnocitycollege.edu

SCOPE OF CONTEST

This event will take place at the Fresno City College main campus at an 8:30 am start time. The awards presentation will take place at the Fresno City College main campus in the gymnasium at 12:00 PM.

By registering students into this event, you affirm that your students have successfully passed your safety test, are skilled, and capable of using the necessary tools to compete safely.

Contestants will demonstrate the ability to perform tasks and basic skillsets related but not limited to roof framing, wall framing, reading blueprints, estimating materials, and framing nomenclature.

NUMBER OF COMPETITORS

Group event (3 members)

Fresno ROP reserves the right to modify enrollment due to limited spaces available.

RULES AND PROCEDURES

The team will demonstrate the ability to perform jobs and skills, which may include the following:

1. Hands-on component

a. Roof Framing

- 2 common rafters
- Span of 10 feet or less
- Layout on 2 x 4 or 2 x 6 materials
- Slope range from 2/12 through 12/12
- Layout of cuts to a given set of core measurements.

b. Wall framing -

- Plate layout
- Corner assemblies (2 types)

- One partition tee
 - A door opening
 - A window opening
 - Layout, cut and assembly of the components
- c. Stair stringers -
- Calculation of rise and run
 - Safety and Code Compliance
 - Layout, cut and assembly of the components
 - The stringer task will not be considered complete until at least one or two treads, and risers are attached to prove the stringer was cut accurately.
2. Written test – All participants will take the written test. (scores to be averaged for the team)
- a. Estimating materials
- Concrete volume - regarding a standard concrete slab floor with a footing to support a single-story house
 - Concrete Cylinder volumes
 - Material take-off to determine the quantities, based on given plans
 - Board feet and/or linear feet calculations based on supplied drawings
- b. Framing nomenclature
- Wall frame part name recognition sheet.
 - Stair stringer part identification
- c. Safety & Risk Management
- Tool Inspections
 - Pre-Task Plans (supplied form)
 - Procedures
3. Personal/Team Safety & Presentation
- a. Professional appearance
- Safety apparel and work wear.
- b. Safety Violations
- Improper use of tools and equipment
- c. Excessive Waste
- Materials used wisely (limited waste)
- d. "Red Flags"
- Failure to always use PPE

No cell phone or calculator use during written test

JUDGING CRITERIA

Contestants will be judged on accuracy of measurements, ability to follow plans and written directions, workmanship, safety and the proper use of tools, equipment and materials, project completion and area cleanup, and professional appearance.

- Wall framing Tolerance: $\pm 1/8"$
- Common Rafters Tolerance: $\pm 1/16"$ at the Ridge and Bird's Mouth
- Stair Stringers Tolerance: $\pm 1/8"$ max variation between any two steps

Time Limit: The team will be stopped when time limits as specified on the contest job sheet are met. The contest will stop at 11:00 a.m.

No construction calculators, phones, or other electronic crutches allowed in classroom or outside during framing.

EQUIPMENT AND MATERIALS

1. Supplied by the contestant (group):

- a. Portable electric or cordless circular saw
 - b. One 50-foot electrical cord
 - c. One crosscut hand saw
 - d. Claw hammers
 - e. 3/4" or 1" wood chisels
 - f. Rafter framing squares
 - g. Tape Measures
 - h. Pencils
 - i. Cat's paws
 - j. Utility knives
 - k. Nail aprons
 - l. Combination squares or T-squares or speed squares
 - m. Goggles or safety eyeglasses
 - n. Drills or Impact Drills with T-25 & T-30 bits
 - o. Portable Set of Sawhorses
 - p. Stair gauges
2. Supplied by the Career Skills Challenge:
 - a. All lumber and other materials as specified on job sheets
 - b. Job sheets and blueprints for each competitor

DRESS CODE

1. Wear appropriate clothing.
 - Clothes must fit the body; no saggy and/or baggy clothes will be allowed.
 - T-shirts or Long sleeve shirts, no tank-tops or crop-tops.
 - You must wear closed-toe shoes.
2. Students with long hair must keep hair in a ponytail or under a cap.
3. All students must always wear hardhat and safety glasses, or a team may be disqualified.
4. No speakers, headphones or ear buds.