



2026 CYAE Fabrication Contest

When: Thursday July 30th and Friday July 31st

Build: 4' x 6' Single Axel Trailer BBQ

(Image below is not the exact build, but will be similar)



Agenda:

Thursday July 31st	
4:30 am	Gates Open
5:00 am-6:00 am	Check in
6:10 am-6:25 am	Safety Meeting

6:30 am	Contest Begins
1:30 pm	Day 1 shutdown
Friday August 1st	
5:30 am	Start of Day 2
7:30 am-10 am	Half time interviews
12 pm	End of Contest
12 pm-2:00 pm	Judging of Projects
2:15 pm	Initial Awards Ceremony
Friday Evening	Grand Entry/Awards
Sunday August 3rd	
6 am-12 pm	Project Haul Out

Entry Fee- \$500 per team

- Entry includes CYAE Polo for each contestant and coach
- Max of 6 contestants per team
- Entry includes all materials necessary to build project (\$1,800 value)
- Entries are online through the CYAE website
- Projects will be hauled out on Sunday by NOON (If that is not logistically possible, please make arrangements with contest hosts prior to the contest)
- There will be no refunds on entries fees, no exceptions
- Entries are due by June 20th at 11:59 pm

Prizes/Awards:

- Will be determined by the number of entries and current allotment of funds
- All teams leave with a BBQ trailer to take back to their school/program
- 1st place will be offered a spot in the sale of champions Saturday Night

Rules/Contest Specs:

- 2026 High School Graduates are eligible to compete
- All materials needed for the build will be staged and ready for teams upon arrival.
- Specific Blueprints/Material List will be utilized (Same Build as 2025)
- Teams are responsible for bringing their own PPE, equipment, and tools.
- Food is not provided, and teams should plan accordingly
- Pop up tents/shade canopies are highly recommended to keep students cool while working. Fans and porta cools are allowed and encouraged.
- All equipment must be equipped with proper safety guards and must adhere to all safety rules. Safety violations found throughout the contest will dock 5 points off the team's total score each time a violation occurs. Safety glasses with an ANSI Z-87 approval rating must be worn by all contestants at all times throughout the contest. Clear Face Shields or Welding Helmets with grind mode **SHALL** be used during the contest. If a team receives 3 safety warnings, they will be disqualified and asked to leave.
- Custom CNC signage/Precut Artwork is allowed. No limits on the size of artwork.
- Additional modifications to the project are allowed this year. An example of a modification would be adding a shelf to the trailer or adding an open storage box to the tongue of the trailer. Frame size and overall project specifications should not be changed, but additions that make the project more marketable are acceptable.

- Instructors are allowed to **Coach**. Please think of yourself as a basketball coach. You are allowed to talk to the team, point your finger, yell, whistle, and give verbal instructions. Any Instructor/coach that is caught using any equipment/tools or touching the metal or project in any way will be disqualified from the placing of the contest. There will be no tolerance for this. (If machine failure takes place, permission needs to be granted by the contest host before coaches' step in to troubleshoot.
- Each team shall bring job site cleanup equipment and maintain a clean/safe work environment during the contest.
- Each team shall be equipped with a fire extinguisher and first aid kit (including some type of portable eye wash station)
- Each team is required to provide water/hydration to their students, and the hydration status of students shall be monitored by the coach
- Energy drinks or drinks that aid in dehydration are not allowed during competing hours (Example- Red bull, Monster, Bang, Etc..)
- No stationary bandsaws will be allowed; portable handheld bandsaws or miter chop saws are acceptable. Tools used should be portable or job site tools.
- Painting projects will not be allowed on site.
- A half-time interview will be conducted with each team on Friday. The interview score will serve as a tie breaker if needed.
- There will be four inspection points on the trailer that will be checked during the contest. The inspection points will be pass/fail, and all points must be passed if the trailer is being pulled home.

Recommended Tools/Equipment:

- Fillet weld gauges (Weld sizes will be integrated into blueprints and must be followed)
- Push Broom, Dustpan, Fire Extinguisher, First Aid Kit, Magnet for clean up
- Generator/Power source
- Welder (GMAW-S/FCAW-S are recommended)

- Grinders
- Chop Saw
- Metal Cutting Circular Saw
- Drill/Drill Bits
- Socket Set
- Tape Measures
- Cutting Torch
- Portable Band Saw
- Combination Square
- Magnetic Square
- Vise
- Locking Pliers
- C-Clamp
- Soapstone

Questions?

Contact: Wyatt Gibson (209)769-5622 or
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Judging/Rubric: Grading Criteria

Overall Weld Quality/Weld Sizes
Fit and Finish/General Workmanship/Attention to Detail
Fit up/Squareness/Geometrical Aspects

Project alignment with blueprints
Axel/Suspension/Tire alignment
Marketability
Half Time interview (Tie Breaker)