



HEAVY EQUIPMENT COMPETITION

2021 State Fair

Updated 8/26/2021

SPONSORED BY: SARGENT CORPORATION / J.E. LIESFELD

DATE: Tuesday, September 28,2021

TIME: 10:00 a.m. Registration
10:30 a.m. – 1:30 p.m. Contest
2:00 p.m. Awards

PLACE: State Fairgrounds at The Meadows in Doswell, Va., Caroline County

COMPETITION CHAIRMAN: Justin Embery / Sargent Corp.

SCOPE OF THE COMPETITION: Students will demonstrate their skill in operating heavy equipment through a series of challenges, including the following:

Challenge 1

Golf Ball: using the excavator with a spoon placed on a center tooth, a golf ball is placed on a spoon. The bucket is placed 180 degrees from a 4 inch pipe on the ground. The bucket is too be lifted up over a triangular elevated obstacle toward the 4 inch pipe and golf ball is too be placed into the pipe.

1. These challenges are timed events.
2. Rule: as soon as the bucket is elevated/moved off the ground the time starts.
3. Rule: You will have two tries at challenge for best time.
4. Rule: One drop of the golf ball is no extra time added. Two drops of golf ball adds 2 mins to time.
6. Once golf ball is dropped of spoon challenge is over for the try.

Challenge 2

Construction cone: using the backhoe with zip ties as handles, four construction cones will be picked up and moved approximately 180 degrees. They will be placed on the bottoms of upside down 3-5 gallon buckets.

1. These challenges are timed events.
2. Rule: When the backhoe bucket moves from designated area you must pick any one cone and place on any one bucket. Cone must stay on bucket. When all 4 cones have been placed on buckets return backhoe bucket to starting position and timer will stop.
3. Rule: If cone drops outside of pick up area there will be a 3 min added to time.
4. Rule: once a cone is dropped it may not be picked up again.

JUDGING CRITERIA: Please refer to *SkillsUSA Championships Technical Standards*.

TOOLS AND MATERIALS REQUIRED BY CONTESTANTS:

Proper PPE:

- Hardhat
- Safety Glasses with Shields
- High-Viz Vest
- Leather Work Shoes
- Hearing Protection
- Chapter's SkillsUSA Banner (optional)

** All tools, equipment, and extension cords must be OSHA approved.

SAFETY STATEMENT: All competitors must have the proper safety equipment as outlined in the *SkillsUSA Championships Technical Standards* and complete the attached safety form. Safety Glasses and hearing protection are required. ***Instructor(s) must remain in the competition tent during the competition.***

NUMBER OF CONTESTANTS: The first 25 SkillsUSA chapters to return the official registration form will be allowed to enter up to 10 contestants. Additional contestants from previously registered teams will be accepted via a drawing if space allows.

CHALLENGE OUTLINE: Provided in this Contest Outline.

ENTRY FEE: \$20.00 per student entering the competition. Please register on-line at www.skillsusava.org, go to Event, State Fair and then to Competitions. Substitutions may be made the day of the contest. **Note:** *Schools dropping participants after September 18 still owe the \$20 contest fee, to cover materials.*

AWARDS: Awards will be presented in the construction cluster tent at 2pm.

DEADLINE: Schools must register the number of teams by September 20, 2021. Contestant names must be submitted to the State SkillsUSA Specialist by September 20, 2021. Substitutions may be made the day of the competition.

- ☒ *Participants must have a Student Competition Ticket to enter the Fairgrounds unless they are already at the Fair for another competition.*
- *Teachers are responsible for ordering tickets online directly from the State Fair Ticket Office using a State Fair Student Competition Ticket Order Form, which can be found on-line at www.skillsusava.org under 'State Fair'*
- *State Fair tickets must be ordered online so everyone may enter near the contest site (Gate 2) You will be allowed to park in this area with advance tickets. No picking up tickets on site.*

Attention! Attention! Attention!

SAFETY REQUIREMENTS: ALL COMPETITORS MUST HAVE THE PROPER SAFETY EQUIPMENT AS OUTLINED IN THE SKILLSUSA CHAMPIONSHIPS TECHNICAL STANDARDS AND COMPLETED AND SIGNED THE SAFETY FORM ATTACHED TO THE RULES. THIS FORM MUST BE SUBMITTED TO THE CHAIRMAN AT REGISTRATION OF THE CONTEST.

CONTESTANTS ARE REQUIRED TO FURNISH & WEAR OSHA APPROVED PPE AND CLOTHING TO INCLUDE HARDHATS, LEATHER WORK BOOTS (do not have to be steel toe), AND SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES. CONTESTANTS WILL NOT BE ALLOWED TO COMPETE WITH TENNIS SHOES OR ATHLETIC TYPE SHOES.

A SAFETY MONITOR WILL BE OBSERVING THE CONTESTANTS DURING THE COMPETITION AND WILL STOP ANY CONTESTANT VIOLATING ANY SAFETY REGULATION. THE CONTESTANT WILL THEN ADJUST TO MEET THE REQUIREMENTS OR BE DISQUALIFIED. THE SAFETY REQUIREMENTS WILL BE REVIEWED PRIOR TO THE START OF THE COMPETITION AND QUESTIONS WILL BE ANSWERED.

THANK YOU FOR YOUR COOPERATION WITH THIS VERY IMPORTANT ITEM.



Safety Form for Heavy Equipment

State Fair SkillsUSA Virginia / Heavy Equipment

The SkillsUSA Virginia/Heavy Equipment Operator Competition will involve the use of a CAT 308 and John Deere 416. It is absolutely necessary that complete operating instructions in the use of this equipment have been given to the contestant in their training program in the local school division. This includes the proper safety instruction in the use the heavy equipment being used in this contest.

By the affixing of my signature below, I certify that my student, who is entering the Heavy Equipment Operator Contest at the State Fair, has had proper operating and safety instruction in the use of the heavy equipment being used for this contest.

(Signature of Instructor/Advisor)

(SkillsUSA Virginia Chapter)

By the affixing of my signature below, I certify that I have received training (including safety training) and that I understand the correct operating procedures and safety precautions for the use of this equipment.

(Signature of Student)

(Date)

THIS FORM MUST BE SIGNED AND TURNED IN TO THE COMPETITON CHAIRMAN ON THE DAY OF THE COMPETITION. FAILURE TO TURN IN THIS FORM WILL RESULT IN THE STUDENT NOT BEING ALLOWED TO COMPETE.