

DIESEL OPERATIONS

Contest Description:	The Diesel Equipment Operations contest will consist of a twenty-five (25) question written exam and a hands-on tractor/bush hog component. The ten contestants with the lowest combined scores on the written exam and tractor/bush hog driving portion of the contest will then compete in the tractor safety event.
Superintendent(s):	Bradley Pousson
Award:	Louisiana 4-H Educational Trip
Grade/Age Requirement(s):	Must be enrolled in 8 th to 12 th Grade as of August 1, 2021
Team or Individual Contest:	Individual
Number of Entries Per Parish:	Two (2) Entries

Contest Rules:

1. Refer to Louisiana 4-H University General Rules and Guidelines for a complete set of event rules and guidelines.
2. Contestants will take a twenty-five (25) question written exam and a hands-on tractor/bush hog component. The ten contestants with the lowest combined scores on the written exam and tractor/bush hog driving portion of the contest will then compete in the tractor safety event.
3. Three judges will be available—one for safety, one for timing and recording scores and one for measuring and observing the contestant.
4. A two-wheel trailer with an 8x12' frame will be used for the two-wheel trailer driving event.
5. A standard pull type mower 8 foot in width will be used for the Mower event.
6. **Two-Wheel Trailer Diving Event:**
 - a. The tractor will be hooked to the trailer in the shed. The contestant will start the tractor and signal an official that they are ready to begin.
 - b. With engine running, brakes set, transmission in neutral, an official will give a signal to start.
 - c. The contestant will pull forward, then back the trailer down an alley. When the back of the trailer passes the last set of posts, the contestant will then pull forward and drive to the two-wheel obstacle course.
 - d. Contestant will draw the trailer through gates 1 and 2 around the end and back through gates 3 and 4. Line up and back the trailer into the shed.
 - e. The contestant should then place the transmission in the parked or locked position, set both rear wheel brakes, stop the engine and dismount. Timing will stop when the tractor has been properly parked and the engine stops turning.
7. **Mower Event-Top Ten Contestants**
 - a. Transmission levers must be in park or locked position, both brakes must be set, and PTO must be disengaged prior to starting engine.
 - b. Contestant must be observed checking for correct positions of levers by judges. The contestant will start the tractor and signal an official that they are ready to begin. With engine running, brakes set, transmission in neutral, PTO disengaged, an official will give a signal to begin.
 - c. Once the mower is attached, contestant will re-start engine, raise mower to the height gauge wheel still contacts the ground and mower's side metal slides clear the ground. Contestant then will follow the same course as the Two Wheel Driving Event, beginning at the alley.
 - d. Contestant must park and remove the mower at the designated location before backing into the shed.

- e. The contestant should place the transmission in the parked or locked position, set both rear wheel brakes, stop the engine and dismount. Timing will stop when the tractor has been properly parked, and the engine stops.
- f. PTO cannot be engaged at any time during the event.

Contest Resource(s):

- Louisiana 4-H Diesel Operations Scoresheet. 2022.
- Louisiana 4-H Two-Wheel Driving Event Course Diagram, 2022.
- LSU AgCenter Publication, Machines #2605
- 4-H Tractor Project #M0678