DELAWARE FFA/4-H SAFE TRACTOR / EQUIPMENT OPERATING CONTEST / CAREER DEVELOPMENT EVENT (CDE)

Event Coordinator

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EVENT INFORMATION:

You must have the following forms filled out completely and submitted at time of registration:

FFA:

- Big E waiver form
- Big E registration form
 - Both of these forms can be found at the following website: http://www.thebige.com/agriculture/ag_ffa_cdes.html

Delaware CDE forms

Both of these can be found on the Delaware FFA Website
Note you do not need national forms; this is only a <u>REGIONAL</u> event only.
4-H participants will need to submit a parental permission form.

Contest will begin at 11:00 a.m. sharp on Wednesday, July 26, 2017, in the Quillen Arena. 10:30-11:00 a.m. will be registration time.

TRACTOR DRIVING TRAINING

Wednesday, July 12, 2017 9 a.m. to 1 p.m. Hoobers in Seaford, DE

If the youth has not competed in this event before or participated in a training before, they are required to attend this training. Those who have attended or participated in the past years are welcome to attend for a refresher practice.

EVENT RULES AND REGULATIONS:

1. All contestants must be 14 years of age to compete.

FFA contestants: Only the <u>TWO</u> FFA Chapter Tractor/Equipment Operating Representative that is certified by the respective LOCAL ADVISOR and has attended the **mandatory** practice event is eligible to compete in this contest. **FFA**, **No Waiver + No "Big E" Certs= No drive.**

- 4-H contestants: must have attended a practice event at the state, county or club level.
- **2.** Appropriate Dress: T-shirt with sleeves (If FFA it must say FFA on the shirt), long pants, belt, and work shoes are **required**. It is recommended that long hair be pulled up and jewelry is taken off. Gloves are optional. Shirt should be tucked in for safety.
- 3. All Cell Phones must be turned off and put away!
- 4. No tobacco product use is allowed by contestants.
- 5. Each contestant must complete all events.
- **6.** Excessive tractor brake steering will disqualify the contestant.
- **7.** Contestants will be disqualified if they are observed not following safety standards, which may endanger themselves or the public.
- **8.** Contestants will be disqualified if they do not wear their seatbelt while operating the equipment.
- **9.** Contestants will be disqualified if they do not adhere to the designated path through the course.

EVENT FORMAT:

- 1. The contest will consist of six (6) parts (four (4) parts for 4-H), each of which will be scored separately--A written test, tools/tractor parts ID, a two-wheeled manure spreader event, a four-wheeled trailer event, tractor loader event (FFA only) and skid-loader event (FFA only).
- 2. Tractors and equipment will be provided for each event. All contestants will use the same tractor and piece of equipment provided at that event.
- 3. All persons other than the judges, the scorers and the contestants will be barred from the contest area during the contest.
- 4. The Chair(s) in charge of this contest will select judges and scorers.
- 5. In case any situation occurs that is not covered in the rules, the decision of the judges will be final.
- 6. The contestant with the *lowest* deductions will be the winner. (In other words, low score wins)
- 7. Tie breakers will be as follows: 1) test score 2) parts I.D. score 3) four-wheeled event score 4) two-wheeled event score 5) loader tractor (FFA only) 6) skid loader event score (FFA only).

PART I - Written Test: 30minutes allotted—administered in the bleachers

- 1. The written test will include up to fifty (50) questions centered on the skill, safe operation and operator maintenance of tractor.
- 2. Refer to SAFE OPERATION OF AGRICULTURAL EQUIPMENT (Student Manual from HOBAR PUBLICATIONS (800) 846-7027) for possible questions.
- 3. The test will include true-false, completion and/or multiple-choice questions.

Example: 1. T____ F___

Example: 1. Check the _____in air cleaners once daily.

Example: 1. All grease fittings should be

A. Well cited

B. Painted periodically

C. greased on schedule

4. Each question answered incorrectly or left unanswered will be valued at ten (10) points.

(500 points possibly added to overall score)

PART II - Tools/Tractor Parts ID: 10 minutes allotted---administered outside the "ring"

- 1. Each contestant will identify mechanic tools and tractor parts from a gas or diesel tractor. Up to 30 tools and parts will be identified. They may include a torque wrench, open-end wrench, flywheel, piston, starter, etc. Contestants will choose from a bank of answers.
- 2. Each answer missed or left unanswered will be valued at ten (10) points.
- 3. Refer to www.snap-on.com, www.valu-bilt.com, or www.craftsman.com.

(300 points possibly added to overall score)

Part III - VI - Operating Skills Events:

- 1. FFA contestants will complete four equipment operating events (a two-wheeled manure spreader event, a four-wheeled wagon event, a tractor loader event, and a skid steer event). 4-H contestants will complete two equipment operating events (a two-wheeled manure spreader event and a four-wheeled wagon event). 30-60 hp compact tractors of various manufacturers are typically used in tractor events. These events will test the skill and ability of the contestant to operate the assigned equipment safely.
- 2. Judges will provide a brief overview of the event, the course, and the rules to the contestants
- 3. Each contestant will start off with a visual inspection of the equipment and attachments. Contestants should verbalize to the judges what is being checked or observed during the inspection.
- 4. The contestant will follow the course outlined by the judge (see attached illustrations.)
- 5. Each event is given a total of ten (10) minutes to be completed. Time starts on a signal from the judge and ends when the contestant returns to the original point or indicates he/she is finished.
- 6. The contestant will be allowed ten (10) minutes for each event. The contestant will be notified at eight minutes that two minutes are left. If the contestant does not finish the

event in ten (10) minutes, a 500-point deduction will be added to their score. At fifteen (15) minutes, the contestant will be stopped and disqualified for the event.

- 7. Excessive tractor brake steering will disqualify the contestant.
- 8. Contestants sitting idle on equipment and not moving for one continuous minute during the event will have a **500-point** penalty added to their score.
- 9. The contestant may be disqualified for excessive tractor brake steering.
- 10. Contestants may be disqualified if they are observed not following safety standards, which may endanger themselves or others.

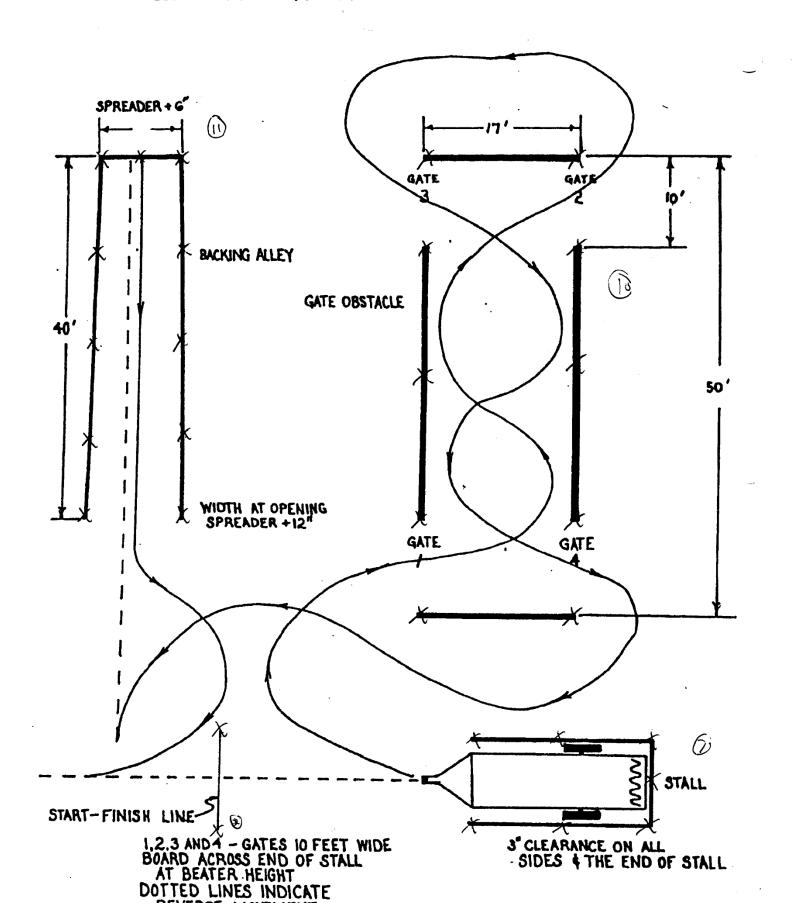
NOTE: CONTESTANTS WILL BE STOPPED AND DISQUALIFIED BY THE JUDGE WAVING A RED FLAG IF IT IS FELT THAT THE CONTESTANT IS NOT IN FULL CONTROL OF THE SKID-LOADER OR TRACTOR AND SAFETY OF THE OPERATOR AND OTHERS ARE JEOPARDIZED!

DELAWARE FFA/4-H SAFE TRACTOR / EQUIPMENT OPERATING CONTEST / CAREER DEVELOPMENT EVENT (CDE)

Score Sheet Two Wheeled Manure Spreader Event

Contestant Name/Number:	Chapter/Club	·
BEFORE STARTING TRACTOR (verbal resp	oonse)_	Deductions
Check fuel and oil gauge		X 10
Check brakes - depress brake pedal with engine running, trac	tor in gear	X 10
Check tires - by sight only		X 10
Check hazards - dirt, grease, tools, improper attachments, etc Check safety belts		X 10
Check ROPS		X 10
STARTING .		
Transmission not in Neutral/ Park		X 2:
Brakes not set		X 2:
Clutch not disengaged		X 1:
OBSTACLE COURSE		
For each time tractor or manure spreader touches obstacles o		X 50
For each time tractor or manure spreader knocks down obsta		X 10
For each unnecessary change of direction (forward or backward	ard)	X 50
BACKING MANURE SPREADER INTO THI		
Number of inches over three (3) inches from the back of the	stall	X 1
Number of inches off center in the front		X 10
Number of inches off center in the rear For each time tractor or manure spreader touches obstacles o	r linas	X 10
For each time tractor or manure spreader knocks down obsta-		X 30
For each unnecessary change of direction (forward or backw		X 50
JUDGES OBSERVE AT ALL TIMES DURIN	G AROVE OPERATIO	NS
Failure to use seat belt	G IIBO V E OI ERRIII	DISQUALIFY
Failure to adhere to the designated path through the course		DISQUALIFY
Improper mount/dismount		X 50
Failure to set brakes when getting off/or put in Park		X 50
Sliding or spinning tires, brake steering		X 10
Rough clutch engagement		X 2:
Clashing of gears when shifting		X 2:
Stalling of the engine		X 10
Excessive engine speed		X 2
Excessive tractor speed		X 50
Standing while tractor is moving		X 100 X 2:
Moving tractor with brakes on	annad	X 2: X 50
Failure to put in gear or park when getting off with engine ste Riding the clutch	opped	X 30
Any unsafe conduct while on or around tractor		X 2.
Fouling equipment (touching spreader w/tractor wheel)		X 2
Rubbing hard		X 7:
	Sub Total of Deduc	tions
Today and the second se		
If the contestant does not finish within the ten-minute time p If the contestant does not finish within 15 minute, the contest		
Time deduction - Convert minutes into seconds, add the remainded to the contest of the contest o		
To this add the subtotal for deductions		
T1ME Deduction	+Sub Total =	TOTAL

COURSE LAYOUT - TWO WHEEL MANURE SPREADER EVENT

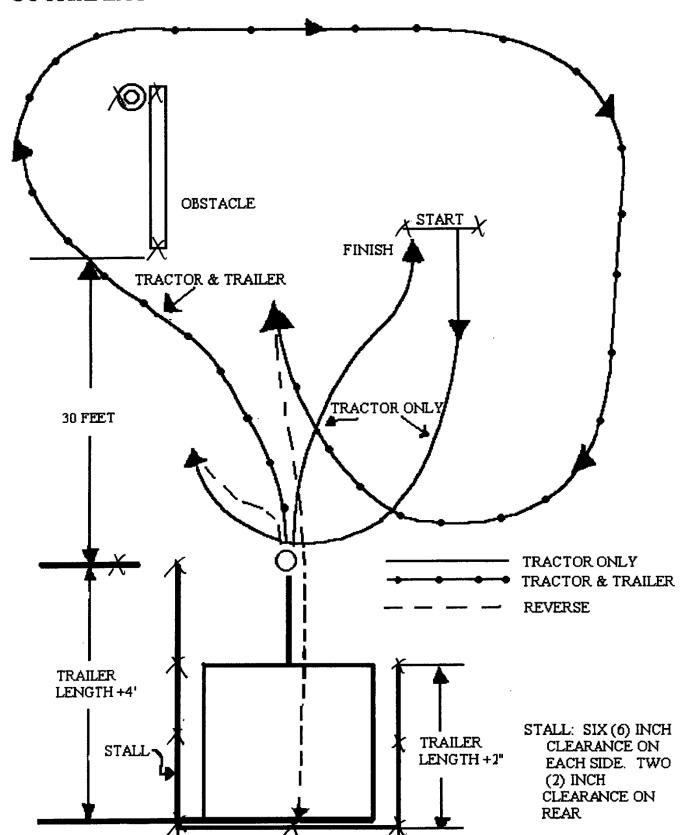


DELAWARE FFA/4-H SAFE TRACTOR / EQUIPMENT OPERATING CONTEST / CAREER DEVELOPMENT EVENT (CDE)

Score Sheet Four-Wheel Trailer Event

Contestant Name	:/Number:		Chapter / Club:_		
BEFORE START	TING TRACTOR (ver	rbal response)	•	Deductio	ons
Check fuel and oil gau		, , , , , , , , , , , , , , , , , , ,		X	10
	s brake pedal with engine ru	nning, tractor in gear		X	10
Check tires - by sight of	only			X	10
Check hazards - dirt, g	rease, tools, improper attach	nments, etc		X X	10
Check safety belts				X	10
Check ROPS				X	25
STARTING					
Transmission not in Ne	eutral/ Park			X	25
Brakes not set				X	25
Clutch not disengaged				X	15
TRAILER HAND	DLING				
	or trailer touches obstacles or	r lines		X	50
For each time tractor o	r trailer knocks down obstac	cles or crosses lines		X	100
For each unnecessary of	change of direction (forward	l or backward)		X	50
	ouls equipment (touching tra	ailer tongue with tractor tire,	,	X	50
sliding trailer wheels si	ideways)				
	EMENT IN SHED				
For each inch off cente				X	
For each inch off cente				X	
For each inch off from	rear of stall over (3) inches			X	10
	CTOR AT FINISH LI	<u>NE</u>			
Failure to set brakes				X	50
Failure to place transm				X	50
Failure to reduce thrott	ile			X	10
	EVE AT ALL TIMES	DURING ABOVE O	<u>PERATIONS</u>		
Failure to use seat belt				DISQUA	
	e designated path through the	e course		DISQUA	
Improper mount/dismo	ount hen getting off/or put in Par	1.		X X	50 50
Sliding or spinning tire		K		^X	
Rough clutch engagem				X	
Clashing of gears when				X	
Stalling of the engine				X	
Excessive engine speed	d			X	25
Excessive tractor speed	i			X	50
Standing while tractor	is moving			X	100
Moving tractor with br				X	25
	or park when getting off with	engine stopped		X	50
Riding the clutch	1.11			X	25
	hile on or around tractor			X	25
Rubbing hard				X	75
If the contestant does =	not finish within the ten-min		otal of Deductions		-
	not finish within 15 minute,				
	vert minutes into seconds, ac				
	o this add the subtotal for de			-	
T1ME	Deduction	+Sub Total	-ТОТАІ.		

COURSE LAYOUT - FOUR WHEEL TRAILER EVENT

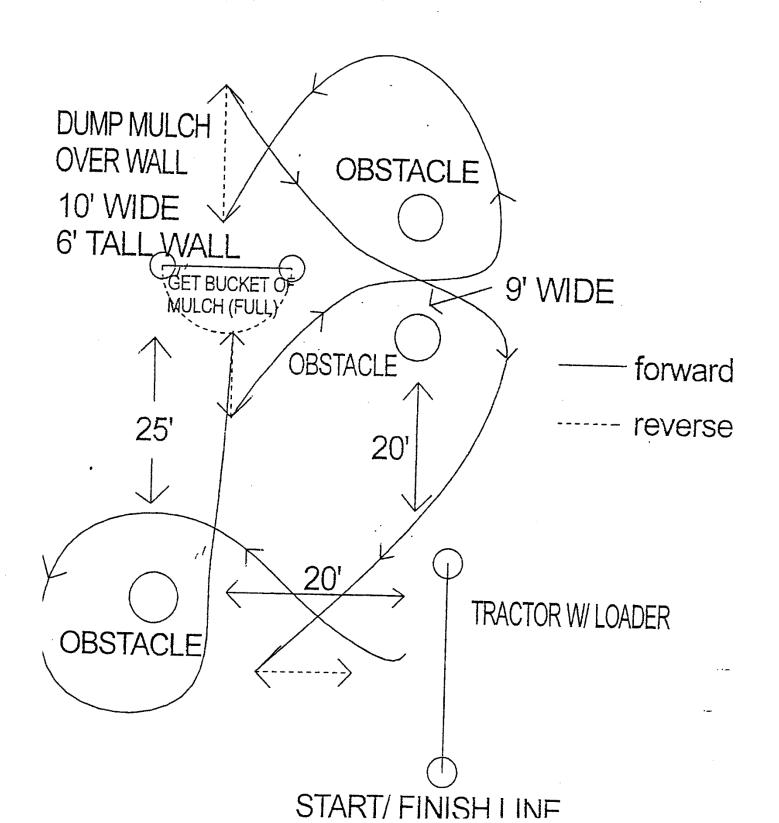


DELAWARE FFA/4-H SAFE TRACTOR / EQUIPMENT OPERATING CONTEST / CAREER DEVELOPMENT EVENT (CDE)

Score Sheet Tractor Loader Event

Contestant Name/Number	Number: Chapter / Club:		
BEFORE STARTING TI Check fuel and oil gauge Check brakes - depress brake ped Check tires - by sight only Check hazards - dirt, grease, tool Check safety belts Check ROPS STARTING	lal with engine running, tractor in		Deduction
Transmission not in Neutral/ Parl Brakes not set Clutch not disengaged LOADING	k		X 2: X 2: X 1:
For touching line or obstacle (with For crossing or knocking down of For each unnecessary change of of Traveling with loader too high Excessive speed going into pile Moving load barrier Improper use of bucket while load Not a full bucket of material DUMPING LOAD	bstacles lirection (forward or backwards)		X 50X 100X 50X 50X 50X 50X 50X 50X 50
Carrying load at unsafe height Unsafe speed approaching dumpi Hitting or damaging dumping bar Bucket not completely empty PARKING TRACTOR A Failure to set brakes Failure to place transmission in g Failure to reduce throttle Bucket not completely down	rrier T FINISH LINE		X 100X 50X 100X 25X 50X 50X 50X 50
JUDGES OBSERVE AT Failure to use seat belt Failure to adhere to the designate Improper mount/dismount Sliding or spinning tires, brake st Rough clutch engagement Clashing of gears when shifting Stalling of the engine Excessive engine speed Excessive tractor speed Standing while tractor is moving Moving tractor with brakes on Failure to put in gear or park whe Riding the clutch Any unsafe conduct while on or a	d path through the course eering	I	DISQUALIFY DISQUALIFY X 50X 100X 25X 100X 25X 50X 50X 25X 50X 25X 50X 25X 25
If the contestant does not finish w If the contestant does not finish w Time deduction - Convert minute To this add	vithin 15 minute, the contestant is	they will be given a 500-p stopped and is disqualified g seconds. Divide the total s	on this event. seconds by 3.
T1MF Do	duction Sub	Total -T	OTAI

TRACTOR LOADER EVENT



DELAWARE FFA/4-H SAFE TRACTOR / EQUIPMENT OPERATING CONTEST / CAREER DEVELOPMENT EVENT (CDE)

Score Sheet Skid-Steer Event

Contestant Name/Number:	Chapter / Club:_		
BEFORE STARTING SKID LOAD	DER (verbal response)	Deduction	15
Check fuel and oil gauge			10
Check brakes - depress brake pedal with engi	ne running, tractor in gear		10
Check tires - by sight only Check hazards - dirt, grease, tools, improper a	attachments, etc.		10
Check safety belts/harness	attachments, etc		10
<u>STARTING</u>			
Improper mount/dismount			50
Throttle set too high		X 2	25
LOADING			
For touching line or obstacle (with skid-steer	or forks)		50
For crossing or knocking down obstacles	1 1 1 1 1	X 10	
For each unnecessary change of direction (for Traveling with forks too high	rward or backwards)		50 50
Excessive speed going into pallets			50
Moving pallets (more than four (4) inches)			50
Improper use of forks while loading			50
NAVIGATING COURSE			
Excessive water loss from bucket (more then	three (3) inches)	X	50
Tipping bucket of water off pallet		X 30) (
**** Operator must return to bucket station to	o get a new full bucket		
Carrying load at unsafe height			50
Pallet #1 not squarely on pallet #2			25
Excessive speed over obstacle			50
Pallets not squarely on platform Unsafe speed approaching platform			25 50
Excessive bucking on turns and going over ob	hstacles		50
			,,
PARKING SKID-LOADER AT FI Failure to reduce throttle	NISH LINE	X	10
Forks not completely down			50
HIDGES ORSEDVE AT ALL TIM	IES DURING ABOVE OPERATIONS		
Failure to use seat belt/safety bar	IES DURING ADOVE OF ERATIONS	DISQUALIF	v
Failure to adhere to the designated path throu	gh the course	DISQUALIF	
Failure to operate skid loader safely	gn me eourge	X 10	
Excessive skid- steer speed			50
	Sub Total of Deductions		
	n-minute time period, they will be given a 500-point dedu		
	nute, the contestant is stopped and is disqualified on this e		
	ds, add the remaining seconds. Divide the total seconds by for deductions to get the final score of the contestant.	73.	
T1ME Deduction	+Sub Total =TOTAL		

SKID-STEER EVENT

