

Zero Turning Radius Contest Guidelines

This contest will cover safety and procedures for operating a ZTR.

The ZTR contest shall consist of the following:

1. General written safety test.
2. A skill contest in which the contestant shall demonstrate:
 - a. The ability to identify basic controls and their use.
 - b. The ability to demonstrate pre-start procedures
 - c. The ability to start and maneuver the mower through an obstacle course.

All contestants will be provided the same mower, and a copy of operators manual will be sent to the instructor prior to the contest date (instructors can bring their own mower to the contest). This will allow time for familiarization of controls, maintenance check procedures, as well as safety/use and handling.

Contestants may take the safety test orally.

Each contestant must work independently without assistance from judges, teachers, fellow students or observers. Such assistance may disqualify the contestant. Contestants will stay in the holding area until their contest begins.

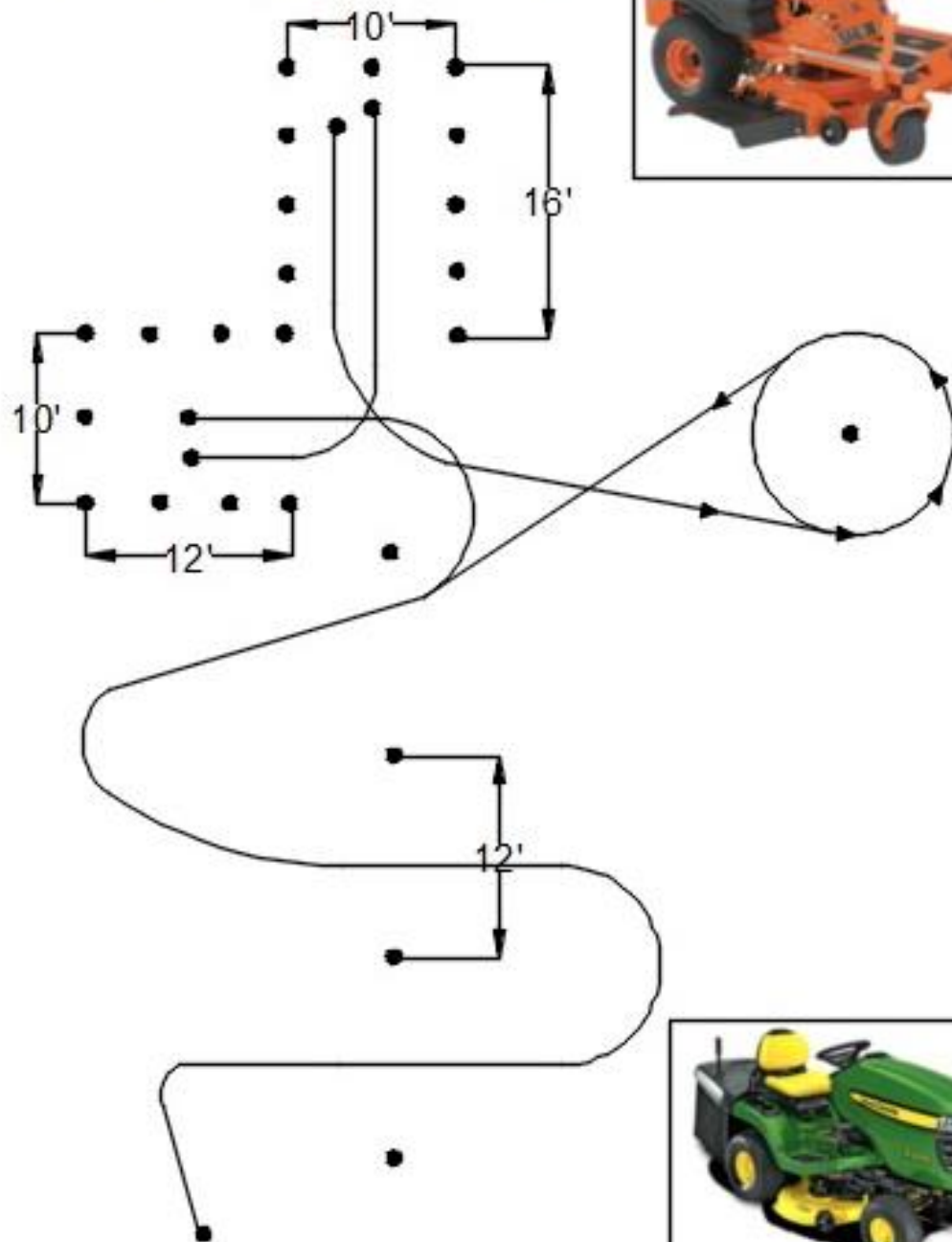
Participants will be rated on a basis of total scores from written and skill contests. In the event of a tie, the contestant's time will be used only as a tie breaker (NOTE: Time will not have an effect on contestants score).

Each instructor may enter three secondary students and three postsecondary students.

Participants will wear appropriate safety apparel:

1. Safety Glasses
2. Hearing Protection
3. Closed Toe Shoes
4. Long Pants

ZTR/Standard Mower Course Layout



Contestant # _____

SAFETY TEST: ZTR

Read the questions carefully then T for True and F for False.

1. When operating a ZTR mower, if you become confused return the steering levers back to their neutral position.

A. True
B. False
2. Moving steering levers from forward to reverse and reverse to forward rapidly saves time while mowing and is a common practice.

A. True
B. False
3. When using a ZTR mower the park brake should only be used when you stop on a hill.

A. True
B. False
4. When mowing with a ZTR mower you should slow down on sharp turns to prevent tipping or loss of control.
A. True
B. False
5. It is okay to mow across steep slopes because a ZTR mower is very stable.

A. True
B. False
6. When operating a ZTR mower steering levers control speed and direction of movement.

A. True
B. False
7. Before operating a ZTR mower you should know all the components of the mower.

A. True
B. False

- 8.** When fueling a ZTR mower you should be sure you are in a well ventilated area.
- A. True
 - B. False
- 9.** Before mowing with a ZTR mower all bystanders should be cleared of the area.
- A. True
 - B. False
- 10.** Boots and tight fitting cloths should be worn when operating a ZTR mower.
- A. True
 - B. False
- 11.** When using a ZTR mower it is okay not to wear safety glasses because you are not at eye level with the discharge chute.
- A. True
 - B. False
- 12.** It is okay to operate a ZTR mower when you are sick or tired.
- A. True
 - B. False
- 13.** It is okay to mow over sidewalks or driveways with a ZTR mower.
- A. True
 - B. False
- 14.** Keys should be removed and the spark plug wire removed when changing blades or checking under the mower.
- A. True
 - B. False
- 15.** It is all right to leave the blade engaged or running when you drive across gravel.
- A. True
 - B. False

16. The most dangerous area concerning the ZTR mower is around the deck and discharge chute.

- A. True
- B. False

17. You learn your equipment limitations by studying the operator's manual.

- A. True
- B. False

Multiple choice questions, choose and circle the correct letter for the answers below.

18. During a maintenance check, you should check:

- A. Engine Oil
- B. Fuel level
- C. Tires
- D. All of the above

19. When checking tires for proper air pressure, you look for a number followed by the letter:

- A. PSI
- B. LAT
- C. ANSI
- D. OZ

20. If someone approaches the mower while you are mowing you should:

- A. Continue working
- B. Yell at them
- C. Drive towards them to scare them away
- D. Stop mowing; Turn PTO off, until they are clear of the area.

21. To safely check blades under mower deck, you should:

- A. Raise deck and block it so it cannot fall
- B. Crawl under deck
- C. Leave mower running
- D. Have a co-worker do it

22. Concerning the controls on the ZTR mower, you should:

- A. Not worry about what each one is for
- B. Get to know them as you mow with the mower
- C. Know them before operating the mower
- D. None of the above

23. Before placing hands and feet near deck or any power driven parts, you should:

- A. Start Engine
- B. Lower the deck
- C. Stop Engine
- D. Raise Deck

24. Before and while driving in reverse, you should:

- A. Look behind you
- B. Look in front of you
- C. Yell out
- D. Have an attitude

25. If the ZTR mower loses traction while going uphill you should:

- A. Accelerate
- B. Stop the PTO and back down the hill slowly
- C. Back down the hill slowly
- D. Bounce up and down in the seat

26. When refueling the ZTR mower:

- A. The engine should be on
- B. It is okay for bystanders to be smoking
- C. Engine should be off, no flames or sparks in the area
- D. All of the above

27. How many passengers is it safe to have on the ZTR mower when operating the mower?

- A. 2
- B. 0
- C. 1
- D. As many as you want

28. What is the proper procedure for shutting down ZTR mower?

- A. Turn off PTO, stop engine and remove key
- B. Leave mower in neutral, idle down and stop engine
- C. Leave mower in neutral, PTO off, deck down, idle down, stop engine, remove key
- D. Stop engine and remove key

29. The engine will shut off if:

- A. The operator rises off seat with PTO engaged
- B. The operator rises off seat with parking brake disengaged
- C. Operator moves steering levers inward before disengaging parking brake
- D. All of the above

30. What is the function of the PTO switch?

- A. Turns on the engine
- B. Regulates oil pressure
- C. Engages the cutting blades
- D. Directional Controls

ZTR's Safety Test Answer Key

1. A

2. B

3. B

4. A

5. B

6. A

7. A

8. A

9. A

10. A

11. B

12. B

13. B

14. A

15. B

16. A

17. A

18. D

19. A

20. D

21. A

22. C

23. C

24. A

25. B

26. C

27. B

28. C

29. D

30. C

ZTR Mower Contest Score Sheet

CATEEGORY	POSSIBLE POINTS	POINTS GIVEN	TOTAL	COMMENTS
Safety				
Eye Protection	5			
Closed Toe Shoes	3			
Long Pants	2			
Hearing Protection (Over the Ear)	5			
Pre-Start ID of Controls (Purpose of Controls)				
Steering	2			
Park Brake	2			
Throttle	2			
P.T.O.	2			
Forward and Reverse Control	2			
Maintenance Check				
Fuel	2			
Oil	2			
Tire Pressure W/Gauge (Check one rear tire only)	2			
Point Out Air Filter	2			
Visual Inspection Walk Around	2			
Operation of Mower				
Operating Mower (Mounting/Starting)	0 to 10			
Alert/Attentive	0 to 10			
Forward Operation	0 to 10			
Reverse Operation	0 to 10			
Speed Selection	0 to 10			
Overall Handling	0 to 10			
Shutdown				
Set Park Brake	2			
Deck Down	2			
Idle Down	2			
Stop Engine	2			
Remove Key	2			
Total Score (105)				
Resume Penalty (minus 0-5 points from total score)				