



CRUSH THE COMPETITION

OPERATOR CHALLENGE REGIONAL FINALS

Michael Walston

Extreme Excavating

Congratulations on winning Stowers Machinery's Operator Challenge Event!

We are thrilled to sponsor you as Stowers Machinery's representative in the Caterpillar North America Operator Challenge Finals! You will be competing in the Eastern Regional on October 24, 2019 in Clayton, North Carolina, at the Caterpillar Demonstration Center.

You will need to arrive at the [Sheraton Raleigh Hotel](#) on Wednesday Oct. 23rd for event registration and a welcome reception.

Registration will take place from 3:00 – 5:00pm and the welcome reception will be held from 5:00 – 7:00 pm on day one. The competition will take place all day on Thursday and will wrap up with an awards ceremony following breakfast on Friday morning. All meals and travel accommodations will be taken care of for you and a guest of your choice.

Bryan Chamberlain will be your host on behalf of Stowers and will travel with you to North Carolina to cheer you on during the event. A shirt and safety gear to wear during the competition will be provided to you at registration, and jeans and work boots are acceptable apparel for the competition. For the welcome reception and the awards ceremony, please feel free to dress casually in jeans and a nice shirt.

Following is a detailed agenda for the event as well as an example of the challenges you'll be asked to complete during the competition. There will be approximately 20 operators participating, and the overall winner will advance to the Caterpillar Global Operator Challenge Finals in Las Vegas, Nevada, on March 10, 2020. The finals will be held in the Caterpillar exhibit on day one of CONEXPO-CON/AGG 2020 in front of a live audience!

Please let us know if there is anything we can do to help you prepare for the events. You are welcome to use our equipment and demo yard.

Stowers Machinery will fly you and your guest to the competition in Clayton. We will leave mid-day on Wednesday, Oct. 23rd and will return Friday after the awards ceremony. Stowers will also cover and make your room reservation.

We need the following information from you to finalize your travel and accommodations:

- Guest Name
- Hotel Room Preference (1 King Bed or 2 Queen Beds)
- Shirt Size

If you have any questions, please don't hesitate to contact us! We look forward to hosting you on this exciting adventure and congratulations again!

Sincerely,

Lisa Rottmann



OPERATOR CHALLENGE AGENDA

You'll be placed in a group with four other operators to complete four challenge sets. Each set will take about two hours total, and you'll have approximately eight minutes to complete each challenge.

WEDNESDAY PM

3:00 pm – 5:00 pm Registration at Sheraton Raleigh Hotel

5:00 pm – 7:00 pm Welcome Reception

FRIDAY AM

7:00 am – 8:30 am Breakfast at Sheraton

9:00 am Awards Ceremony at Sheraton

11:00 am Depart for Airport

THURSDAY (CHALLENGE DAY)

6:00 am Breakfast at Sheraton

7:00 am Bus Departs Sheraton

7:00 am Safety Brief/Overview of Challenges and Schedule

8:15 am – 10:15 am Challenge Set 1

10:15 am – 10:30 am Rotate

10:30 am – 12:30 pm Challenge Set 2

11:00 am – 1:00 pm Lunch Served

12:30 pm – 12:45 pm Rotate

12:45 pm – 2:45 pm Challenge Set 3

2:45 pm – 3:00 pm Rotate

3:00 pm – 5:00 pm Challenge Set 4

5:00 pm Wrap-Up

5:00 pm – 7:00 pm Dinner at Clayton

7:00 pm Bus Departs for Sheraton

FRIDAY AM (BACK UP PLAN FOR WEATHER)

7:00 am Bus Departs Sheraton

8:00 am – 10:00 am Challenge Remaining

10:00 am – 12:00 Challenge Remaining

1:00 pm Awards Ceremony at Clayton

1:30 pm Bus Departs for Airport

CAT CONTACT INFORMATION

If you have questions, please contact:

MARKETING & COMMUNICATIONS:

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OPERATOR CHALLENGE #1

Challenge: Trenching

Machine: Excavator with Grade/Assist Technology

Objective: Dig trench using 2D Grade for 3 minutes at 1 bucket width, 3 feet (1 meter) deep

Challenge Details:

1. Position excavator at start cone
2. Operator benches to establish grade
3. Time begins when excavator lifts bucket to maneuver to bench 2D Grade systems
4. Time stops when excavator bucket is returned to designated floor spot/cone

Penalties:

1. Greater than target depth – each 1/10 foot (30 mm) = +0.10 (6 seconds)*
2. Less than target depth – each 1/10 foot (30 mm) = +0.10 (6 seconds)*
3. Trench greater than 1 bucket width = +0.10 (6 seconds)*
4. Excessive bucket fill factor/overloading = +0.10 (6 seconds) per pass
5. Hit tracks with bucket/GET = +0.50 (30 seconds)
6. Balance of machine/raise tracks = +0.10 (6 seconds)
7. No seat belt during operation = +0.50 (30 seconds)
8. No 3 points of contact during entry/exit = +0.50 (30 seconds)
9. Not storing bucket on ground = +0.10 (6 seconds)

*Penalties 1, 2 and 3 should be measured at 10 feet/3-meter intervals

Trench 1 bucket wide by 3ft deep with 0% slope for 5 minutes



Bucket switch before and after pipe transfer



SUGGESTED OPERATOR CHALLENGE #2

Challenge: Load Me Up

Machine: Skid steer and/or wheel loader with Caterpillar Production Measurement

Objective: Load and move material, achieving target payload through specified course

Challenge Details:

1. Loader is positioned at start
2. Time begins when bucket leaves the ground
3. Loader travels course to stockpile and loads bucket
4. Loader travels course to dump target, dumps and returns at least twice
5. Time ends when loader parked at start and bucket placed back on ground

Option 1: Load truck or other material-holding device to a specified target payload while navigating pre-determined carry and return course

1. Measure time required to achieve specified target payload
2. Measure and track deductions for deviating from course/material spillage

Option 2: Load bucket with material and navigate pre-determined course

1. Measure time required to travel course
2. Measure and track time deductions for material spillage
3. Measure and track time deductions for deviating from course/material spillage

Penalties:

- | | |
|---|----------------------------|
| 1. Greater than target weight – each 500 lbs (225 kg) = | +0.10 (6 seconds) |
| 2. Less than target weight – each 500 lbs (225 kg) = | +0.10 (6 seconds) |
| 3. Excessive bucket fill factor/overloading = | +0.10 (6 seconds) per pass |
| 4. Hit target with bucket/GET = | +0.50 (30 seconds) |
| 5. Wheels/tracks raised off ground = | +0.10 (6 seconds) |
| 6. Excessive travel speed = | +0.10 (6 seconds) |
| 7. No seat belt during operation = | +0.50 (30 seconds) |
| 8. No 3 points of contact during entry/exit = | +0.50 (30 seconds) |
| 9. Not storing bucket on ground = | +0.10 (6 seconds) |



OPERATOR CHALLENGE #3

Challenge: Easy Doze It

Machine: Track Type Tractor

Objective: Maneuver track type tractor through pre-determined course in specified time

Challenge Details:

1. Time begins when blade is raised at start point
2. TTT tracks through pre-determined course requiring blade actuation and steering maneuvers
3. Time stops when blade is returned to ground

Option 1: Navigate pre-determined course with blade actuation (raise/angle) over and through obstacles

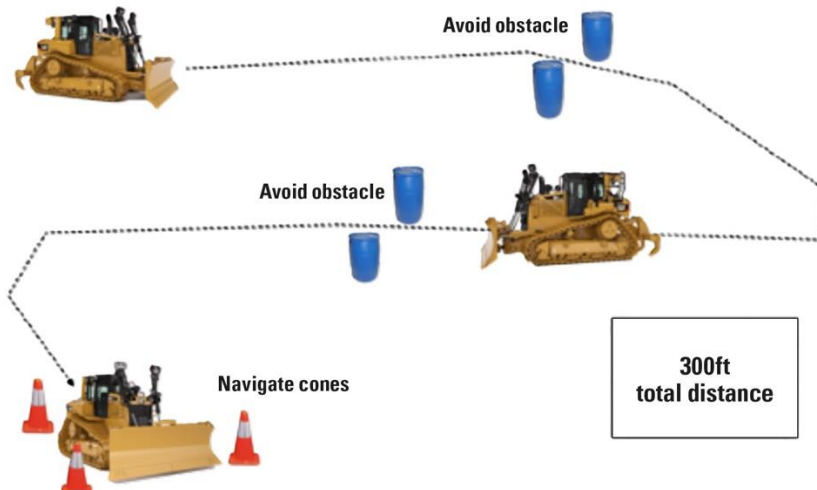
1. Measure time required to navigate course
2. Measure and track deductions for deviating from course/obstacle hits

Option 2: Push material or objects with blade while navigating pre-determined course

1. Measure time required to travel course
2. Measure and track deductions for material movement or object placement

Penalties:

- | | |
|---|--------------------|
| 1. Touch/hit obstacles – each = | +0.10 (6 seconds) |
| 2. Blade touching ground during course = | +0.10 (6 seconds) |
| 3. Material or objects damage = | +0.10 (6 seconds) |
| 4. Tracks raised off ground = | +0.50 (30 seconds) |
| 5. Excessive travel speed = | +0.10 (6 seconds) |
| 6. No seat belt during operation = | +0.50 (30 seconds) |
| 7. No 3 points of contact during entry/exit = | +0.50 (30 seconds) |
| 8. Not storing blade on ground = | +0.10 (6 seconds) |



OPERATOR CHALLENGE #4

Challenge: The Mini Masters

Machine: 301.7 CR Next Gen Excavator (can substitute 301.5, 301.8 or 302 Next Gen Excavator)

Objective: Tee off into a designated area, navigate through a narrow opening and then place the golf ball into the hole

Challenge Set-Up:

Create a simulated golf hole. Items required include a cone with a golf ball (Step 1), a narrow opening that requires the undercarriage to be retracted (Step 2) and 3 more cones/golf balls along with a 5-gallon bucket to represent the hole (Step 3). You can make the golf hole as elaborate as you want to add to the effect.

Note: This is a good opportunity to partner with a landscape company to build the golf hole and allow them to advertise at the event.

Challenge Details:

1. Have operators hit a golf ball off of a cone. The objective is to hit it in a designated area (similar to a driving range). If they don't get it in the designated area, they will receive a time penalty of 6 seconds.
2. Next, have operators engage stick steer down the course to a narrow opening. This opening can be created by using cones, pavers, a gate or a doorway. In order to get through, operators must retract the undercarriage. If they do not fully retract the undercarriage and hit one of the cones or any side of the opening, then they will be charged a time penalty of 6 seconds.
3. Once onto the green, operators will have to use the bucket to pick a golf ball off a cone and place it in the "hole" (e.g., 5-gallon bucket). Set up 3 cones with 3 golf balls. Operators must at least get one of the balls in the bucket, or they will receive a time penalty of 6 seconds.
4. The operator with the lowest overall time after any added time penalties (including safety penalties) wins the event.

Penalties:

- | | |
|--|-------------------|
| 1. Touch/hit obstacles – each = | +0.10 (6 seconds) |
| 2. Golf ball does not enter designated area from tee off = | +0.10 (6 seconds) |
| 3. Failure to get golf ball in hole/5-gallon bucket = | +0.10 (6 seconds) |

