

**36th Annual Student Career Days
March 22 – 25, 2012
Kansas State University**

COMPACT EXCAVATOR OPERATION

Description: The student (maximum of one individual per school) will demonstrate sound understanding and proficient operation of a compact excavator. The student will be required to perform a safety and maintenance inspection prior to operation, and operate a compact excavator through a series of tasks that simulate real-world job applications. Such applications might include digging a trench or square hole, backfilling, accurately placing material, operating in tight spaces, and connecting a quick coupler. In addition, students will be given a written multiple choice exam of 25 questions on Friday. Topics covered by the written exam will cover safety, maintenance, operation, and key machine characteristics of a compact excavator.

Time: Students will have one hour to complete the written exam on Friday and 30 minutes for the operations of the excavator operation on Saturday; time slots will be assigned during the event briefing on Friday based on when the school's registration and payment were received.

Limits: The sponsor reserves the right to limit the number of individuals competing based on time or physical space constraints of the campus. Schools will be able to compete based on the date their registrations were received and paid for. (Registrations that are received late or have not been paid will be placed on a waiting list.)

JUDGING CRITERIA

Points: 100 possible points for the individual score; the individual score is doubled toward the team score for a total of 200 possible points.

Points will be assigned based on the following criteria:

1. Written exam (25%)
2. Safe and accurate completion of safety and maintenance walk around and machine operation (75%)

Time will only be used as a tiebreaker. In the event that time is needed to break a tie, the combined time it takes the student to complete both operating stations will be used.

Students are required to bring the following materials to the event: A pencil and eraser for the written exam on Friday. Students are required to wear hard-soled shoes or boots.

Sponsor is required to supply the following materials for the event:

- The sponsor will provide hard hats, safety glasses, gloves, and ear protection at each station. The use of safety equipment will not be part of the point calculation. However, we strongly recommend that each student use these items for personal safety and injury prevention.
- Minimum of two compact excavators for operation of event
- Diagram and set up of obstacle course
- Copies of written exam
- Final solution for written exam ready for scoring the students' tests
- Stopwatches
- Sufficient number of judges and event monitors