

Ag Technology and Mechanical Systems

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Contest chairs:

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Contest purpose/objectives: Students develop technical knowledge and an ability to work with others to solve complex agricultural problems. The Agricultural Technology and Mechanical Systems Career Development Event (CDE) helps students develop technical knowledge and an ability to work with others to solve complex agricultural problems. The event is built around students learning and executing a “systems approach” – or the process of understanding how solving one problem influences others.

Qualification statement: This is a **qualifying contest** for the State contest. **The top 5 teams will be eligible to enter the State FFA Career Development event.** Practice teams will not be accepted. One team per school.

Placement and tie breaker:

Placement of teams will be determined by tabulating the three best scores of contestants from the school.

If a tie occurs within the top 5 teams or individuals, the following events will be used to determine award recipients:

Individual

- Highest written exam score
- Highest ID score

Overall Team

- Team Activity Score
- Total (top 3 team members) written exam score

Materials needed:

Safety Glasses

A clipboard and paper free from notes or other markings

Several sharpened no. 2 pencils (no pens)

Basic Calculator

Event format:

The contest will consist of the following parts:

A. Written Exam: A 50 question, multiple choice written exam will be given to assess the students' knowledge. Questions will come from the [Ag Mech Test Bank](#).

B. Tool ID: Identify 25 tools from the [Tool ID List](#)

C. Individual Practicum - the lab practicum could be one of the following activities:

1. Read schematics and sketch wiring circuits.
2. Reading manuals to determine tractor clearances and capacities.
3. Using micrometers/ calipers to determine clearances and sizes.
4. Service and maintain equipment to maintain optimum productivity.
5. Identify and compute harvest losses.
6. Select and plan concrete construction.
7. Determine a bill of materials for a construction.

Links to Other Contests:

[State Ag Mech Event](#)

[National Ag Mech Event](#)

Other:

[Scantron Example](#)

Round/Schedule: