Ag Technology and Mechanical Systems

updated 2.27.2026
Items underlined are links

Contest chairs:
Jeff Kolzow

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 6 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:
A clipboard and paper free from notes or other markings
Several sharpened no. 2 pencils (no pens)
Basic Calculator - **IMPORTANT for 2026 Practicum, at least 1 per team**
Tape Measure - IMPORTANT for 2026 Practicum, at least 1 per team.

Event format:
The contest will consist of the following parts:

A. Written Exam:A 50 question, 1 point each, 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, 2 points each, from the Tool ID List

C. **Team Practicum** (100 points total): in the area of
- **Structures:** Structures, storage, **concrete**, masonry, plumbing, electrical, fabrication, **construction, building materials**, ventilation, heating, and air conditioning.
    - Study Guide
    - Scoring Rubric

Activity	Individual Points	Team Points
Written Exam (Individual)	**50**	**150**
Tool ID (Individual)	**50**	**150**
Team Practicum	**100**	**300**
	100	**600**

*only the top 3 scores are calculated.

Links to Other Contests:
State Ag Mech Event
National Ag Mech Event

Other:
Scantron Example

Round/Schedule:
There will be 3 rounds of start times. 9am, 9:45am, and 10:30am. All will start with the team practicum. Times are approximate and subject to change, please wait to be called.