

**2010 South Carolina
State FFA Agricultural Mechanics Contest
9:30 am, Saturday May 8, 2010
Laurens High School-Career Areas**

This year's state contest will include:

- 1. 1 hour written examination**
- 2. 1 hour team problem solving activity (3-4 members)**
- 3. 1 hour(3-20 minute sections) individual skill performances and/or written problems**

Portions of this contest may be conducted outdoors rain or shine. All contestants must arrive at Laurens High School by 9:20 a.m. dressed appropriately for the weather and to provide adequate safety while performing skill exercises (no shorts or open toed shoes). Students MUST provide their own eye safety protection. All students must wear safety glasses during the skill activities. To enter the CDE area, students must have safety glasses in their possession. The use of clipboards and pocket calculators is permissible and encouraged.

Your team should be comprised of three or four individuals that have prepared to represent your chapter for the state event. Be sure 2009-2010 FFA dues have been paid on your contestants. Also review the skills portion of this event as outlined below and make sure your contestants can safely participate in these activities. Please do not place your students into potentially hazardous and embarrassing situations if they are unprepared.

Please register NO LATER than May 6th if you plan to compete in this year's state event. No exceptions.

Event Theme for 2010:

INTEGRATED PEST MANAGEMENT

The 2010 South Carolina State Agricultural Mechanics Career Development Event will be developed from the following subject matter described under the five systems areas listed below.

- **Machinery & Equipment Systems-** repair, maintenance, processing, materials handling, adjustments as well as Perform maintenance on small gas engine-powered pressure washer and or generator.
- **Marketing/Information Systems-** customer relations, accounting, communication, economics, safety, service calls, reading and understanding labels

- **Energy Systems-** *The problem solving/skills in the **Energy Systems** will involve the operation, installation, maintenance, and/or repair of 120/ 240 volt Single Phase Alternating Current Electrical Systems, Electric Motors and Controls and/or electrical equipment associated with Wiring a ventilation fan in a greenhouse controlled by a timer and thermostat.*
- **Structural Systems-** *storage, handling, disposal, concrete, plumbing, structural material selection, heating, ventilation, and “welding”. Contestants must bring a welding helmet and leather welding gloves. They must wear appropriate clothing and footwear for working with hot metal.*
- **Environmental/Natural Resource Systems-** *water quality, material compatibility, soil and water conservation, disposal of waste*

WRITTEN EXAMINATION- Question for the written examination may come from any or all of those five areas listed above and will be developed from CAERT.

TEAM EVENT- The one hour team event may include problem solving activities related to the above five systems that can be completed by a team effort. A comprehensive problem scenario may also be a portion of the team event. A laptop computer will NOT be needed. “Sprayer calibration and or Wiring irrigation valves to timers for a greenhouse or nursery operation.

INDIVIDUAL SKILLS- The individual skills may include contestants to read instructions and material, select materials, measure, cut, layout, and fabricate an object from “copper or steel pipe for spraying purposes”.