**ATMS (Ag Mechanics)**

**Committee Report**

**VATAT Conference 2023 – Dallas, TX**

**2024 Ag Mechanics CDE- Forage Production**

It was decided to align the Texas FFA CDE ATMS Contest to better fit the National Contest and guided examples within each skill set.

**Machinery & Equipment- (Individual Skills)**

Round Balers

* Identify safe machinery operational practices.
* Identify the recommended service and maintenance operations from the operator’s manual.
* Select lubricants for machinery and equipment.
* Identify functions of machinery components.
* Identify parts and functions of hydraulic systems.
* Match tractors to implement.
* Install, operate, maintain, adjust and evaluate machine systems for field conditions

**Electrical – (Individual Skill)**

AC Wiring - 120 volt branch circuits

* Single pole switches
* 3 way switches
* GFCI, Duplex Receptacles,
* Light Fixtures
* breaker box

**Compact Equipment- (Individual Skill)**

Small Engines - single or multi cylinder engines (roughly 30 HP or less?) OHV engines

* Perform recommended periodic service jobs (as found in operator’s manuals).
* Use measuring tools and test instruments such as micrometer and telescoping gauges, dial indicator,
* compression tester, torque wrench, VOA (volt-ohm-amp) meter, DMM (digital multi-meter), timing
* devices, tachometer and dynamometer for determining test procedures.
* Remove, service and replace electrical components.
* Test and service batteries, charging, lighting, warning and cranking systems
* Select and use engine overhaul equipment, including valve, cylinder, piston, seal and bearing tools.
* Service and maintain fuel, air intake and exhaust, cooling and lubrication systems

**Environmental & NR- (Team Activity)**

Surveying -

* Conduct Land Surveying practices (profile leveling, differential leveling)
* determine land shaping and grading requirements
* Lay out grade stakes for cuts/fills
* layout and map contour lines

**Structures- (Team Activity)**

Wood structures -

* Determine the size, specifications and layout of building (stud frame)
* develop a bill of materials
* interpret plans and working drawings
* rafter layout and construction
* operate power tools such as drills and saws

**Ag Mechanics Contest and Workshop Dates:**

* 09/01/2023 – Texas State ATMS Prep Course
* 03/22/2024 – Texas State Invitational CDE
* 03/23/2024 - Texas A&M ATMS Invitational
* 03/27/2024 – SFA Invitational ATMS CDE
* 03/28/2024 – SHSU Invitational ATMS CDE
* 04/5/2024 – Area VII ATMS Contest Texas State
* 04/26/2024 – State ATMS Contest SHSU
* Continue to check judgingcard.com for other contests throughout the year!
  + Signup early!

Additional Information:

* Area VII Website
* ATAT Website
* Texas FFA Website