

2019 MD STATE AG-TECH MECH SYSTEMS UP-DATE

MACHINERY & EQUIPMENT SYSTEMS:

Use of operator manual on tractor and rated equipment for use with type available – we are contacting John Deere and Case IH for availability

ELECTRICAL SYSTEMS:

110/220 volt AC circuit wired to spec. (panel box to end device) Determine proper wire size for the application. Component identification along with knowledge and use of Multi-meter. Possible calculations for amp, watts, or volts.

STRUCTURAL SYSTEMS:

We will be using MIG welding this year. Will assemble and weld to supplied specs with given materials. Also proper selection of welding filler materials and amperage to complete exercise along with knowledge of SMAW, GMAW, and Oxyacetylene for welding questions.

COMPACT EQUIPMENT:

Routine engine component adjustment or repair on Briggs & Stratton OHV engines. Engine & tool identification/parts and Specs knowledge. Use of measuring tools, torque wrench, multi-meter, feeler or thickness gauge.

ENVIRO-NATURAL RESOURCES:

I have contacted area Soil Conservation Service and shared competencies from National Contest guidelines. More information to follow as it becomes available.

WRITTEN EXAM - 25 questions from the 5 skills areas

TEAM ACTIVITY :

We will be utilizing a plumbing exercise/activity that will allow the participation of all team members. It will include identification, use of tools and assembling a component that demonstrate the understanding of these items.

Rules of contest: Will following National FFA rules as close as possible

Team consists of 4 members – all scores count

Safety glasses required for all areas except examination

Welding helmet, gloves needed for all team members

Sturdy shoes and proper clothing required

Questions can be directed to Joe Linthicum at linthicumj@hotmail.com 410-868-2567