# Career Program Area: Precision Agriculture Specialist

## Specific Rules

The objective of the Precision Ag Career Program Area is to evaluate and develop the skills necessary for students to be successful in the precision ag field. Proficiencies will be tested in the following areas:

- Written Examination consisting of 50 questions about basic GNSS processes, terminology, precision ag hardware, applications, etc.
- Hardware setup, configuration and/or component identification. Participant will be given 30 minutes to properly setup or troubleshoot a variety of monitors, sensors and cables as well as identify hardware components. Participant will be scored on:
  - Properly connecting and operation of all given hardware components
  - Written explanation detailing the purpose of the final setup or explaining the discovered hardware issue and/or list hardware components
- Using AgLeader SMS Advanced software, participant will be given various files and images to be processed into the SMS Software. Participant will have 60 minutes to import data, create recommendations and create a printable PDF reports/map(s) that accurately displays data. Participant will be scored on:
  - Properly setting up folder structures
  - Importing the data correctly into the software management tree
  - Accurately create recommendations from the imported data
  - Creation of output reports and maps containing the appropriate information as indicated in the instructions

## Procedures

1. Written exam will be machine scored.
2. The hardware portion of the event will begin with participant given a supply of various precision agricultural hardware components. A 30 minute time period will begin when participant is given supplies. When 30 minutes have expired, participant must stop all work and turn in what they have at that time.
3. In the event of a tie, three questions from the written exam will be identified in advance of the event and final placing will be determined by who answered the three questions correctly.

## Performance Evaluation

Each participant will be evaluated on performance in each of the three activity areas:

- Written Exam – 50 points
- Hardware – 100 points
- Software/Mapping – 100 points
- **TOTAL POSSIBLE – 250 Points**

State Awards and Recognition will be given to 1st, 2nd and 3rd place.