

Georgia FFA Association

Agriculture Technology and Equipment ID CDE

Information Sheet 2024-2025

Tool Identification

- Student will Identify 25 Tools **Changes to the CDE: SEE NEW TOOL LIST** Click Here -> [Hand Tools and Equipment ID Sheet](#)
- 25 tools, tool descriptions, or described tool uses will be provided for identification
- Students will select from a list of corresponding numbers for the tool identified and record it on an answer sheet

Written Exam

- Students will answer 25 multiple-choice questions
- Multiple choice questions may be selected from any of the resources identified in the CDE Guidelines
- Written exam questions will match the skill selected reference for the FY 25 CDE (focus on Differential Leveling/Surveying)

References

- Agricultural Technical Systems, 1st edition, ISBN 978-0-8269-3663-9, Chapter 9
- Basic Surveying Manual, Transportation Information Center,
 - [Wisconsin Transportation Information Center - Basic Surveying Manual](#)

Skill

- The skill will involve interpreting pictures, photos, or diagrams or using actual equipment to survey land.
- Students may be required to perform any or all the following skills:
 - Read and record the backsight or foresight of a survey rod.
 - Read and record the distance using stadia crosshair measurements.
 - Use the readings to determine the difference in elevation between two locations.
 - Use the readings to calculate the percent slope between two locations.
 - Use the calculated percent slope to determine potential land class.
 - Use readings to determine land area in square feet or acres.

Measurements – ALL MEASUREMENT TOOLS WILL BE PROVIDED

- Students may be required to measure:
 - Length of material (board, wire, conduit length, and diameter)
 - Read stadia lines and elevation (site lines)
 - Determine Distance using stadia hairs
 - Determine Elevation
 - Angle
 - Measurements will need to be recorded in simplest form
- Measurement tools may include:
 - Measuring Tapes, Squares, Rulers, any other common measuring device, and photos of an engineer rod.

Items to Bring:

- Pencils/Pen, Clipboards, Calculators.