

What is it?

This CDE builds your knowledge about soils, whether it be applied in managing farms, fields, woodlands, in developing communities, or in engineering work. This CDE helps students understand the basic differences in soils. Students will be able to comprehend why soils respond differently to management practices, as well as how soil properties affect crop growth.

Career Opportunities

Career Clusters

- Agriculture, Food & Natural Resources
- Business Management & Administration
- Marketing
- Finance
- Science Technology, Engineering & Mathematics
- Human Services
- Education & Training

Career opportunities found in the career cluster areas:

- **Agriculture, Food & Natural Resources** – agronomist, field inspector, producer
- **Marketing** – field sales representative
- **Science Technology, Engineering & Mathematics** – soil scientist
- **Education & Training** – soil science teacher, farm broadcaster, editor/writer for a geology publication

Educational Requirements

Associate Degree and/or industry training – producer

Bachelor Degree – agronomist, editor/writer, field sales representative, agricultural extension agent

Graduate Degree – soil scientist, postsecondary educator

SAE Opportunities

Conducting tests on crops in different soil types and making recommendations, employment at a farm that produces crops, field surveyor, soil conservation, experiment with erosion control methods

Proficiency Award Areas

Environmental Science and Natural Resources Management
Forest Management

Curriculum Resources

- *Introduction to Horticulture*. 3rd Edition, 2000. Interstate Publishers, Inc. Danville, IL.
- *Introductory Horticulture*. 5th Edition, 1996. Delmar Publishers, Inc. Albany, NY.
- *Ornamental Horticulture: Science, Operations and Management*. 2nd Edition, 1994. Delmar Publishers Inc., Albany, NY.
- *www.Landjudging.com*
- *Soil Science and Management*. 4th Edition 2003. Delmar Publishers, Inc. Albany, NY.
- *Fundamental Soil Science*. 2006. Delmar Publishers, Inc. Albany, NY.
- CAERT Library Lessons – *Animal, Plant & Soil Science Library*