

# NORTH CAROLINA CAREER AND TECHNICAL EDUCATION STANDARDS

## Agricultural Education

**Grade:** Grade 9 - 12

**Course:** Horticulture I

**NCCTE.AP41** - Horticulture I

**NCCTE.AP41.01.00** - Examine leadership opportunities related to the horticulture industry.

**NCCTE.AP41.01.01** - Discuss the organization available for students in horticulture.

**NCCTE.AP41.01.02** - Demonstrate parliamentary procedures and public speaking used in horticulture business meetings.

**NCCTE.AP41.02.00** - Examine careers related to horticulture.

**NCCTE.AP41.02.01** - Discuss careers and skills necessary for employment in the horticulture industry.

**NCCTE.AP41.02.02** - Implement an SAE.

**NCCTE.AP41.03.00** - Summarize plant anatomy.

**NCCTE.AP41.03.01** - Discuss biological terms used to describe plants.

**NCCTE.AP41.03.02** - Discuss the anatomy and functions of plants.

**NCCTE.AP41.03.03** - Discuss floriculture and landscape plants.

**NCCTE.AP41.04.00** - Examine factors relating to plant growth and development.

**NCCTE.AP41.04.01** - Explain the growth process of plants.

**NCCTE.AP41.04.02** - Use sexual and asexual methods of propagation.

**NCCTE.AP41.05.00** - Explain properties of soils.

**NCCTE.AP41.05.01** - Discuss horticultural soils.

**NCCTE.AP41.05.02** - Discuss the soil profile and soil sampling for surface and subsurface layers.

**NCCTE.AP41.06.00** - Explain the role of nutrients and fertilizers.

**NCCTE.AP41.06.01** - Discuss macro and micro nutrients and the role they play in plant deficiencies.

**NCCTE.AP41.06.02** - Discuss the advantages and disadvantages of various fertilizers.

**NCCTE.AP41.07.00** - Apply procedures to plant a garden.

**NCCTE.AP41.07.01** - Plan a garden.

**NCCTE.AP41.07.02** - Establish a garden.

**NCCTE.AP41.08.00** - Compare distinguishing characteristics of pests.

**NCCTE.AP41.08.01** - Discuss the anatomy and life cycle of pests.

**NCCTE.AP41.08.02** - Discuss diseases and viruses.

**NCCTE.AP41.09.00** - Explain Integrated Pest Management and pesticides.

**NCCTE.AP41.09.01** - Discuss integrated pest management strategies.

**NCCTE.AP41.09.02** - Discuss key signal words and safety precautions on pesticide labels.

