

# NORTH CAROLINA CAREER AND TECHNICAL EDUCATION STANDARDS

## Agricultural Education

**Grade:** Grade 9 - 12

**Course:** Agricultural Mechanics I

**NCCTE.2017.AS31** - Agricultural Mechanics I

**NCCTE.2017.AS31.01.00** - Apply leadership in agricultural education.

**NCCTE.2017.AS31.01.01** - Remember organizations related to the agricultural mechanics industry.

**NCCTE.2017.AS31.01.02** - Apply parliamentary procedure and public speaking skills.

**NCCTE.2017.AS31.01.03** - Understand skills needed for employment and careers in the agricultural mechanics industry.

**NCCTE.2017.AS31.02.00** - Understand the use of records in the agricultural mechanics industry.

**NCCTE.2017.AS31.02.01** - Understand the Supervised Agricultural Experience component of the agricultural mechanics program.

**NCCTE.2017.AS31.02.02** - Understand methods of financial record keeping in an agricultural mechanics business.

**NCCTE.2017.AS31.03.00** - Apply shop safety principles to work in an agricultural mechanics shop.

**NCCTE.2017.AS31.03.01** - Understand OSHA safety rules, color coding, and personal and fire safety equipment and techniques in an agricultural mechanics shop.

**NCCTE.2017.AS31.03.02** - Apply safe work practices when setting up, adjusting, using hand and power tools.

**NCCTE.2017.AS31.04.00** - Apply construction principles in agricultural mechanics.

**NCCTE.2017.AS31.04.01** - Understand the use of a builder's level, tripod, laser level and the 3-4-5 method to layout a building.

**NCCTE.2017.AS31.04.02** - Apply drawings and symbols to develop a project plan and complete a bill of materials.

**NCCTE.2017.AS31.04.03** - Understand the use of fasteners, hardware, and finishing materials in carpentry projects.

**NCCTE.2017.AS31.04.04** - Understand framing terms to calculate and install floor, wall, and roofing materials.

**NCCTE.2017.AS31.04.05** - Apply basics of layout and framing to construct and finish a shop project.

**NCCTE.2017.AS31.04.06** - Apply electrical principles to calculate the cost of electricity needed in the agricultural mechanics setting.

**NCCTE.2017.AS31.04.07** - Apply principles of electrical wiring to install branch circuits in a safe manner.

**NCCTE.2017.AS31.04.08** - Apply principles of painting and preserving to finish wood and metal projects.

**NCCTE.2017.AS31.04.09** - Understand principles and materials for constructing fences using



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various materials.

**NCCTE.2017.AS31.05.00** - Apply principles of welding in the agricultural mechanics shop.

**NCCTE.2017.AS31.05.01** - Understand principles for using arc welding equipment and materials for SMAW, GMAW and GTAW.

**NCCTE.2017.AS31.05.02** - Apply welding skills to construct agricultural mechanics projects.

