NORTH CAROLINA CAREER AND TECHNICAL EDUCATION STANDARDS

Agricultural Education

Grade: Grade 9 - 12

Course: Agricultural Mechanics II

NCCTE.2018.AS32 - Agricultural Mechanics II

NCCTE.2018.AS32.01.00 - Understand leadership qualities involved in successful employment.

NCCTE.2018.AS32.01.01 - Understand leadership qualities and career building techniques desired by the agricultural mechanics industry.

NCCTE.2018.AS32.01.02 - Understand parliamentary procedure.

NCCTE.2018.AS32.02.00 - Understand the Supervised Agricultural Experience component of the agricultural mechanics program.

NCCTE.2018.AS32.02.01 - Understand SAE components and application to work-based learning.

NCCTE.2018.AS32.02.02 - Understand a financial statement.

NCCTE.2018.AS32.03.00 - Apply shop safety skills in the agriculture shop.

NCCTE.2018.AS32.03.01 - Understand OSHA safety rules, color coding, and equipment safety in an agricultural mechanics shop.

NCCTE.2018.AS32.03.02 - Apply safety skills when practicing cold and hot metal skills...

NCCTE.2018.AS32.04.00 - Apply metal fabrication skills in the agricultural shop.

NCCTE.2018.AS32.04.01 - Apply proper procedures for using bolts, nuts, washers, screws, rivets.

NCCTE.2018.AS32.04.02 - Apply the proper use of metal fabrication equipment such as plasma cutters, chop saws, grinders, bandsaws, and CNC (Computer Numerical Control).

NCCTE.2018.AS32.04.03 - Apply proper procedures for using oxy-fuel equipment and materials for annealing, bending, brazing, soldering, tempering, hardening, cutting, and welding various materials.

NCCTE.2018.AS32.04.04 - Apply proper procedures for using arc welding equipment and materials for SMAW, GMAW and GTAW.

NCCTE.2018.AS32.04.05 - Apply metal fabrication skills to design plans, read symbols, and construct a project.

NCCTE.2018.AS32.05.00 - Apply the use of agricultural power in agricultural mechanics.

NCCTE.2018.AS32.05.01 - Understand principles of operation and troubleshooting techniques for air-cooled and water-cooled engines.

NCCTE.2018.AS32.05.02 - Apply preventative maintenance procedures to service small engine powered tools, equipment, tractors and attachments.

NCCTE.2018.AS32.05.03 - Apply principles and procedures for the safe use of tractors and power equipment.

NCCTE.2018.AS32.06.00 - Apply plumbing principles used in agricultural mechanics.

NCCTE.2018.AS32.06.01 - Understand plumbing principles and materials.

NCCTE.2018.AS32.06.02 - Apply proper safety and industry approved techniques to install plumbing materials.

NORTH CAROLINA CAREER AND TECHNICAL EDUCATION STANDARDS

NCCTE.2018.AS32.07.00 - Apply concrete and masonry principles to complete agricultural mechanics projects.

NCCTE.2018.AS32.07.01 - Understand concrete and masonry principles to construct masonry projects in agricultural mechanics.

NCCTE.2018.AS32.07.02 - Apply concrete and masonry principles to calculate materials needed and cost for a masonry project.

NCCTE.2018.AS32.07.03 - Apply principles to construct a concrete/masonry project.