Introduction to Agricultural Mechanics - 0151

Course provides for the skill and knowledge development applicable to the tools and equipment used in the agricultural industry. In learning to apply basic industrial knowledge and skills (engines, power, welding and carpentry) a broad range of topics may be explored, including the operation, mechanics, and care of tools and machines; the construction and repair of structures; introduction to electricity and power. Procedures for safe operations in the agricultural mechanics laboratory are included in this course.

Personal Safety

Personal Safety in Agricultural Mechanics/NCCER Certification

Identifying Basic Areas of Agricultural Mechanization

Identifying Hazards in Agricultural Mechanics

General Shop Tools ID

Impact of Technological Advances in Agricultural Mechanics

Understanding Construction Codes

Concrete Tools ID

Careers in Agricultural Mechanics and Technology Systems

Planning and Designing Projects

Shop Activities

Using Hand Tools

Carpentry Tools ID

Using Power Tools

Caring for and Reconditioning Tools

Introducing Electricity and Electrical Safety

Electric Power Related Tools ID

Identifying Metals and Their Physical Properties

Applying Cold Metal Working Techniques

Shop Supplies and Materials

Applying Fuel Gas Welding Processes and Techniques

Applying Shielded Metal Arc Welding Techniques

Metal Working Tool ID

Applying Metal Inert Gas/Mig Welding Techniques

Concrete Masonry Unit

Concrete Tools