Agricultural Power and Machinery - 0154

The course includes maintenance and troubleshooting, and repair of small gas engines, auto and farm equipment maintenance, Identification and comparison of energy sources. Troubleshoot problems and evaluate performance to service and repair power transmission systems. Utilize maintenance manuals to service and repair hydraulic systems. Utilize schematics to service vehicle electrical systems.

AGRICULTURAL MECHANICS

Identifying Basic Areas of Agricultural Mechanization

Understand Principles of Operation of Internal Combustion Engines

Identifying Engine Systems and their Components

Measuring Engine Components and Specifications

Applying Preventative Maintenance Practices

Using Small Engines

Using Multiple Cylinder Engines

Using Hydraulic Systems

Using Pneumatic Systems

Using Robotic Systems

Use of Technology in World Food and Fiber Production

Understanding Monitoring Systems

Determining the Role of Precision Technology

Understanding Global Positioning Systems

Understanding Remote Sensing Technology

Developing Goals

Obtaining Education for a Job

Identifying Occupational Competencies

Finding a Job

Applying for a Job

Writing a Resume for a Job

Succeeding in a Job Interview

Understanding Conflicts and their Resolution

AGRIBUSINESS MANAGEMENT

Understanding Organization of an Agribusiness

Preparing Business Goals and a Plan

Establishing an Agribusiness

Understanding Personal Finances and Goals

Understanding the Concept of Borrowing Money

Determining Sources of Credit

Calculating Interest Rates

Understanding Record Keeping

Insuring the Agribusiness

AGRICULTURAL MECHANICS

Understanding Applications of Fluids, Lubricants in Ag. Equipment

Operating, Calibrating and Maintaining Agricultural Tillage Systems

Operating, Calibrating and Maintaining Planting Systems

Operating, Calibrating and Maintaining Irrigation Systems

Operating, Calibrating and Maintaining Spraying Systems

Operate, Calibrate and Maintain Forage Harvest Handling Systems

Operate, Calibrate and Maintain Grain Harvesting, Handling Systems

Operate, Calibrate and Maintain Animal Waste Management Systems