

# CERTIFICATE OF ACHIEVEMENT IN EQUIPMENT TECHNICIAN LEVEL 2

support courses may be substituted with the approval of the Agriculture Division Chair.

NOTE: AGTC 225 is a 3 unit course starting Fall 2019.

This certificate prepares students for an exciting career as an Equipment Technician. Production agriculture is highly dependent on machines like tractors, harvesters and other specialized pieces of equipment to grow and harvest the food and fiber we use on a daily basis. Students in this program will learn about Diesel Engines, Power Transmissions, Hydraulics, Welding, Fuel and Emission Systems, Air Conditioning Systems, Electrical Systems, Troubleshooting and Diagnostics. This program focuses on the skills and theory entry level technicians need to maintain and repair equipment used in agriculture. Students will learn these skills in a combination of lecture and laboratory experiences that not only provide the knowledge but the skills required by industry. This program will also incorporate training from OEM's (Original Equipment Manufacturers) to give graduates a competitive edge in the workforce. Tools for laboratory work are provided at no cost to students.

## Program Outcomes

- Demonstrate safe repair and maintenance of equipment.
- Use a systematic approach to troubleshoot a problem and communicate the findings appropriately.
- Demonstrate knowledge of how equipment systems function.

## Career Opportunities

Upon successful completion of this certificate, students will be prepared for employment in the following fields: equipment technicians and farm mechanics.

## Program Requirements

Code	Title	Units
REQUIRED CERTIFICATE COURSES		
AGTC 103	Farm Power	3
AGTC 106	Agriculture Welding	3
AGTC 120	Introduction to the Agriculture Power Equipment Service Industry	3
AGTC 123	Power Equipment Electronics and Electrical Systems	3
AGTC 124	Power Equipment Air Conditioning and Heating	2
AGTC 125	Power Transmission Systems	3
AGTC 126	Diesel Engine Emission Systems	2
AGTC 127	Equipment Diagnostics, Testing and Failure Analysis	2
AGTC 210 or AGTC 202	Agriculture Project Construction (or) Farm Equipment Construction	3
AGTC 213	Hydraulics	3
AGTC 225	Compact Diesel Engines	3
=		
TOTAL		30

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and