



CERTIFICATE OF ACHIEVEMENT IN EQUIPMENT TECHNICIAN LEVEL 2

Credit Status:

Credit

Program Award:

Certificate of Achievement (16+ units)

Effective Term:

Spring 2025

Program Title

Certificate of Achievement in Equipment Technician Level 2

Program Goal:

CTE

Secondary Program Goal

Local

Catalog Description:

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.

Career and Transfer Opportunities:

Career Opportunities

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

Program Outcomes:

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.

Requirements

Program Requirements

Code	Title	Units
REQUIRED CERTIFICATE COURSES		
AGTC 103	Farm Power	3
AGTC 106	Agriculture Welding	3
AGTC 120	Course AGTC 120 Not Found	3
AGTC 123	Course AGTC 123 Not Found	3
AGTC 124	Course AGTC 124 Not Found	2
AGTC 125	Course AGTC 125 Not Found	3
AGTC 126	Course AGTC 126 Not Found	2
AGTC 127	Course AGTC 127 Not Found	2
AGTC 213	Hydraulics	3



AGTC 210 or AGTC 202	Agriculture Project Construction (or) Farm Equipment Construction	3
AGTC 225	Compact Diesel Engines	3
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TOTAL		30

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Agriculture Division Chair.

Units for Degree Major or Area of Emphasis (Min):

30

Units for Degree Major or Area of Emphasis (Max):

30

Total Units for Degree (Min):

30

Total Units for Degree (Max):

30

TOP Code:

011600 - * Agricultural Power Equipment Technology

Enrollment and Completer Projection:

Course Number	Course Title	Required / Electives	Annual Number of Sections (Yr 1)	Annual Enrollment Total (Yr 1)	Annual Number of Sections (Yr 2)	Annual Enrollment Total (Yr 2)
AGTC 103	Farm Power	Required	1	15	1	25
AGTC 106	Ag Welding	Required	1	17	1	17
AGTC 120	Introduction to the Ag Power Equipment Industry	Required	1	20	1	25
AGTC 123	Power Equipment Electronics and Electrical Systems	Required	1	20	1	25
AGTC 125	Power Trains	Required	1	20	1	25
AGTC 126	Diesel Engine Emission Systems	Required	1	20	1	25
AGTC 127	Equipment Diagnostics, Testing and Failure Analysis	Required	1	20	1	25
AGTC 210	Ag Project Construction	Required	1	20	1	25
AGTC 213	Hydraulics	Required	1	20	1	25
AGTC 225	Compact Diesels	Required	1	20	1	25

Enrollment Projections:

25

Place of Program in Curriculum/Similar Programs:

There is no other program similar to this currently offered at COS.

Similar Programs at other colleges in Service Area:

Reedley College has a similar program to this. I have consulted quite a bit with Reedley during the creation of this program. Reedley is Accredited through the Associated Equipment Distributors (AED) Foundation. When working with our local advisory committee members none of them are AED members so we did not pursue accreditation through them any further. We did use the standards to build our course outlines and objectives which were then reviewed by our advisory committee. Our advisory members suggested we pursue the Kubota Tech Certification and the Case New Holland (CNH) Top Tech Program which we are currently doing.

**Master Planning:**

This new program addresses district goals related to growth as there are students who drive past our college from Porterville to go to Reedley and many students in our own service area go to Reedley College to be in their equipment technician program. This program would allow us to capture those students back into our district. This would also address student success as many local employers rely on Reedley or UTI for technicians and their needs aren't being met. This program will allow us to work directly with those partners to build the program that meets their needs.

State Program Control Number:

20073