



# Automotive Electrical Systems (Ford ASSET) Certificate

This certificate represents a subset of the Ford Automotive Student Service Education Training (ASSET) Program and is intended for students wishing to specialize in automotive electrical systems. This certificate is designed to help students develop the skills necessary to efficiently and accurately maintain, diagnose, and service/repair automotive electrical systems. Please refer to the [Program Handbook](#) for more information. Only students enrolled in the ASSET Program can enroll in Ford ASSET courses.

**Total Units: 11-17**

## First Year

### Semester 1

**7-10 Units**

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*
<b>AMT 370</b> <sup>(Z)</sup> Ford ASSET Automotive Fundamentals and Dealership Practices	4		F
<b>AMT 371</b> <sup>(Z)</sup> Ford ASSET Automotive Electrical/Electronic Systems	3		F
<b>AMT 498</b> <sup>1</sup> <sup>(Z)</sup> Work Experience in Automotive Mechanics Technology	0-3		F, S, Su

<sup>(Z)</sup> At least one section of this course is offered with free textbooks and is labeled as zero textbook costs (ZTC). If it is a GE area class or elective, there may be several ZTC offerings to fulfill the GE requirement. Use the Free Textbook filter to find these courses. Learn more on the [ZTC page of the college website](#).

<sup>1</sup> Enroll in a minimum of 3 units in AMT 498 is required for this certificate.

## Year 2

### Semester 2

**4-7 Units**

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*
<b>AMT 381</b> <sup>(Z)</sup> Ford ASSET Electronic Engine Control	4	AMT 371	F
<b>AMT 498</b> <sup>1</sup> <sup>(Z)</sup> Work Experience in Automotive Mechanics Technology	0-3		F, S, Su

<sup>(Z)</sup> At least one section of this course is offered with free textbooks and is labeled as zero textbook costs (ZTC). If it is a GE area class or elective, there may be several ZTC offerings to fulfill the GE requirement. Use the Free

## Career

### Options/Outlook:

Master mechanics repair virtually any part on the vehicle or specialize in the transmission system. Tasks include test-drive vehicles and test components/systems using equipment such as infrared engine analyzers, compression gauges, and computerized diagnostic devices; test and adjust repaired systems to meet manufacturers' performance specifications; repair, reline, replace, & adjust brakes; review work orders and discuss work with supervisors; confer with customers to obtain descriptions of vehicle problems and to discuss work to be performed.

### A sample of reported job titles:

ASE Master Mechanic (Automotive Service Excellence Master Mechanic), Auto Technician, Automotive Drivability Technician, Automotive Mechanic (Auto Mechanic), Automotive Service Technician, Certified ASE Master Automotive Technician (Certified Automotive Service Excellence Master Automotive Technician), Master Automotive Technician, Master Technician, Mechanic, Transmission Rebuilder

### Projected job openings in California (2020-2030):

6,900

Textbook filter to find these courses. Learn more on the [ZTC page of the college website](#).

<sup>1</sup> Enroll in a minimum of 3 units in AMT 498 is required for this certificate.

<sup>^</sup>You must have passed the prerequisite course(s) with a "C" or better; Corequisite must be taken during the same semester; Advisory means it is recommended but not required to enroll in the course.

\*(O) = online available (P) = partially online

## Projected job openings in California (2020-2030):

4% growth

## Median Salary in California (2021):

\$50,740/yr

## Source:

<https://www.onetonline.org/link/summary/49-3023.00>

## About this map:

This program map represents one possible pathway to complete the program. Please see a counselor to create an education plan that is customized to meet your needs. This map is not a guarantee of course availability or financial aid applicability.

## Zero Textbook Costs (ZTC):

The Zero Textbook Costs designation and logo are added to any course that provides free access to all required instructional materials. These are typically shared with students through Canvas. Courses that are designated as ZTC may still require students to purchase supplemental materials such as lab coats, a calculator, art supplies, etc. See full definitions and searching tips on the [Zero Textbook Costs page](#) of the college website.