



# EAST CENTRAL COLLEGE AUTOMOTIVE TECHNOLOGY

## CERTIFICATE OF ACHIEVEMENT

Catalog Year Fall 2015

### East Central College

1964 Prairie Dell Road  
Union, Missouri 63084  
636-584-6500  
www.eastcentral.edu

### Admissions Office

ECC Campus  
636-584-6563  
admissions@eastcentral.edu

### Program Contact

Student Services Call Center  
636-584-6563  
admissions@eastcentral.edu

### Program Location

Four Rivers Career Center  
1978 Image Drive  
Washington, Missouri 63090  
636-239-0598

### Program Faculty

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East Central College is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools  
30 N. LaSalle St., Suite 2400  
Chicago, Illinois 60602-2504  
800-621-7440

### THE CAREER

Automotive service technicians and mechanics inspect, maintain and repair automobiles and light trucks that run on gasoline, electricity or alternative fuels, such as ethanol. The responsibilities of these professionals have evolved from simple mechanical repairs to high-level technology-related work.

The increasing sophistication of automobiles requires workers to be versatile with a variety of systems and tools. They need to be able to use computerized shop equipment and work with electronic components while also maintaining their skills with traditional hand tools.

### PROFESSIONAL TRAITS

Those pursuing a career in this field should:

- Have mechanical aptitude and a working knowledge of automobiles
- Be able to diagnose the source of a problem quickly and accurately
- Have strong communication and analytical skills
- Possess solid reading, mathematics and computer skills

### EMPLOYMENT AND SALARY INFORMATION

The automotive service profession is experiencing about average growth, per the U.S. Bureau of Labor Statistics. By 2022, the number of positions is expected to increase by 9 percent.

Median hourly earnings for automotive service technicians and mechanics, including commission, were \$17.60 in May 2012. The median hourly rate in the industries employing the largest numbers of these workers were as follows:

Local government, excluding schools	\$22.71
Automobile dealers	\$19.88
Automotive repair and maintenance	\$15.97
Automotive parts, accessories and tire stores	\$15.02
Gasoline stations	\$14.94

### THE PROGRAM

The East Central College Automotive Technology program is recognized as an Automotive Service Excellence (ASE) certified program. It is offered at the ECC Washington site in partnership with Four Rivers Career Center.

Students enrolled in the program gain a solid understanding and working knowledge of the automotive industry. They study automotive technology, with emphasis on lab demonstrations while working in the well-equipped shop area. Students are given hands-on mechanical training from the very start, progressing from basic systems to the more complex. They first work on bench units before moving on to live engines on stands, live cars belonging to the program and finally consumer automobiles.

New students must enroll in the fall and should plan on attending full-time, choosing either a morning or afternoon time block. Students currently in high school can choose to articulate coursework to the AAS degree program and continue with the general education block of coursework at ECC.

Assuming appropriate placement scores, full-time students can expect to complete the certificate track in 24 months.

### ADMISSIONS REQUIREMENTS

Students must have completed:

- ✓ High school diploma or the equivalent (documentation must be sent to the registration office)
- ✓ Application for admission
- ✓ A placement test as specified by the college (some courses require minimum placement results)

### ADDITIONAL PROGRAM INFORMATION

STANDARD OCCUPATIONAL CLASSIFICATION (SOC)  
49-3023.00

JOB PLACEMENT RATE  
60 percent

TUITION AND REQUIRED FEES  
\$3,230 (In-District)  
\$4,420 (Out-of-District)

BOOKS AND SUPPLIES  
\$120.45

■ **ROLLA**  
573-466-4100

■ **SULLIVAN**  
573-468-8287

■ **UNION**  
636-584-6588

■ **WASHINGTON**  
636-239-0598

WWW.EASTCENTRAL.EDU

# AUTOMOTIVE TECHNOLOGY

## CERTIFICATE OF ACHIEVEMENT

### CERTIFICATE OF ACHIEVEMENT COURSEWORK

COURSE	HOURS
AT 1001 Introduction to Automotive Technology	1
AT 1004 ASE Brakes	4
AT 1043 ASE Suspension/ Steering	3
AT 1063 ASE Manual Drive	3
AT 1082 Auto Transmission/Transaxel	2
AT 1104 ASE Engine Repair	4
AT 2038 ASE Electrical Systems	8
AT 2057 ASE Engine Performance	7
AT 2071 Heating & Air Conditioning (Auto)	1
BU 2881 Business & Industry Capstone	1
<b>Total Credit Hours</b>	<b>34</b>

TO CONVERT A CERTIFICATE OF ACHIEVEMENT INTO AN ASSOCIATE OF APPLIED SCIENCE DEGREE, STUDENTS ALSO NEED TO TAKE THE FOLLOWING:

COURSE	HOURS
FS 1000 Campus Orientation/	
FS 1001 Foundation Seminar	1
EN 1223 English Comp I or	
EN 1233 Honors English Comp I	3
MT 1083 Applied Algebra & Trigonometry or	
MT 1303 Intermediate Algebra	3
EN 1403 Technical Writing	3
PE Requirement	1
Program Elective	3
HI 1000/ PS 1000 Constitutions Study Module	0
History or Political Science Requirement	3
Science Requirement (BI)	3
Program Elective	3
Communications Requirement (CT)	3
Program Elective	3
Program Elective	3
<b>Total Credit Hours</b>	<b>32</b>