#### **Past and Projected Job Openings and Earnings**

						Earnings		
Advanced Transportation Occupations in Region	2016 Jobs	2021 Jobs	Job Growth	5 Year Openings*	Annual Openings	Entry Hourly	Average Hourly	Experienced Hourly
First-Line Supervisors of Mechanics, Installers, and Repairers	4,429	4,855	9%	2,352	470	\$18.87	\$34.15	\$51.10
Automotive Body and Related Repairers	1,599	1,702	6%	876	175	\$11.47	\$19.10	\$32.97
Automotive Service Technicians and Mechanics	9,848	10,482	6%	5,281	1,056	\$10.68	\$19.20	\$32.92
Bus and Truck Mechanics and Diesel Engine Specialists	4,519	5,023	11%	2,577	515	\$13.29	\$22.84	\$33.73

970

194

Mobile Heavy

Equipment Mechanics

#### **Auto Technician Career Path**

1,728

1,862

8%

Most employers prefer to hire employees who have completed a vocational or community college automotive technical program

	initiality college automotive technical			
Careers	Education Required	S	alary Rang	е
Manufacturer Corporate Employment	BA Degree Preferred/Required + Automotive Technical Degree/Certificate		\$78,000- \$85,800	
General Manager Service Department	AA Degree in Business + Auto Management Classes Auto/Technical Background		\$67,800- \$74,580	
Service Writer	AA Degree in Business + Auto Management Classes Auto/Technical Background		\$42,000- \$46,200	
Senior Tech	ASE Certified Master Tech  + AS Degree in Automotive Technology		\$32,300- \$35,530	
Technician	ASE Certifications + Auto Technology Certificate		\$24,000- \$28,000	
Entry Level	Quick Service Installer Program or Auto 100		\$21,000- \$25,000	

# College of the Desert

\$25.98

\$37.61

43-500 Monterey Ave. Palm Desert, CA 92260

\$16.10

#### **Automotive Programs:**

- A.S., Advanced Transportation Technologies
- Automotive Alternative Fuels Certificate
- A.S., Automotive Technology
- Automotive Air Conditioning Certificate
- Automotive Electrical Certificate
- Automotive Emissions Certificate
- Automotive Engine Mgt. Certificate
- Auto Transmission & Axle Certificate
- General Auto Service Certificate
- Light Duty Diesel Certificate
- Steering, Suspension, Align Certificate

#### **Contact:**

Doug Redman

(760) 346-8041

dredman@collegeofthedesert.edu www.collegeofthedesert.edu/students/ap/auto/Pages/ automotivetechnology.aspx

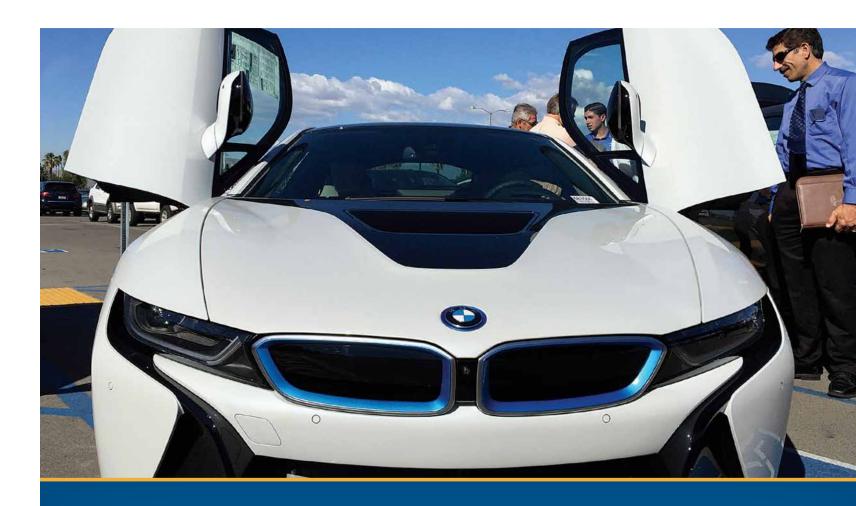


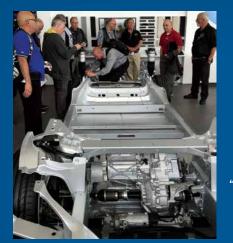




# Automotive Technology Career







## Fast Track to an Automotive Technology Career at College of the Desert

"Tesla Model S chassis. Instructors at Roundtable event with Tesla Motors discussing innovations in automotive technology and how they use technicians"

<sup>\*</sup>openings reflect job growth and attrition over five years

# **Fast Track to an Automotive Technology Career**

There are many paths to an automotive technology career. Our College offers the training necessary for a successful future in automotive technology. Choose from many different tracks, such as classes in auto mechanical general service to specialized service such as drive train, electric/hybrid systems, and engine performance courses.

## Why Choose a Career in Automotive?

The average wage across our region for automotive service technicians and mechanics is \$39,900 annually, or \$19.20 hourly. To start, you only need to have a high school diploma, although most employers prefer to hire employees who have completed a post-secondary vocational or community college automotive technician training program.

#### **Program Highlights**

Our programs are supported by a wide variety of partners from both the state, college, and private industry. Most colleges offer specific corporate programs to ready you for a career in the auto industry. Our corporate programs include well-known companies such as General Motors, Ford, and Chrysler, as well as Imports.

Southern California is a great place to start your career in the automotive industry.

Southern California is home to over 500 new car dealerships, and in addition many corporate offices are located here, including BMW, Chrysler, Ford, General Motors, Hyundai, Isuzu, Kia, Mazda, Suzuki, Toyota, and others! Plus, career enhancement opportunities exist for all graduates to progress within the dealer organization, including as a Service Manager, Parts Manager, and Service Advisor to name just a few.

#### Qualifications

For anyone planning ahead for a career in automotive technology, students are advised to take courses in English, mathematics, computer technology, electronics, and auto and machine shop. To be successful, a high degree of mechanical ability as well as customer and personal service, engineering and technology knowledge, and critical thinking are necessary, as well as manual dexterity, auditory attention, and visualization.



Automotive technologies are becoming more advanced

## **Industry Sector Pathway:**

**Automotive/Advanced Transportation** 

# Secondary Courses (Technical)

#### Most H.S. Level Programs Organize Their Courses as Follows:

#### Intro to Auto 1

- Overall Systems
- Basic Theory
- Some Tires

#### Intro to Auto 2

- Electronics/Electrical
- Brakes

#### Intro to Auto 3

- Suspension Chassis
- Steering

#### M.L.R. Preparation

• MLR 1, MLR2, MLR3

#### **Additional Opportunities Include:**

AYES Opportunity
ASE Preparation
ASE Student Certificate

#### **Secondary (Academic)**

#### Math

- Measuring
- Conversions
- Angles

Reading Standard Documents & Instructions

Communications Oral/Written Computer Applications Interpreting Diagrams & Charts Information Retrieval & Data



# 2-Year/Community College Programs

#### Most college Level Programs Organize Their Courses as Follows:

#### ASE 1-9 ordered

- Engine Repair
- Auto Transmissions
- Man. Transmissions
- Suspension
- Brakes
- Electrical
- A/C
- Engine Performance
- Diesel/Heavy Duty

#### **Advanced Course Opportunities Include:**

Electric & Hybrid Technologies Alternative Fuels/CNG/LNG Emissions Testing

On-Board Computer Systems Software Tech

Networking Auto Machining

Auto Body

- Frame Repair
- Paint
- Welding & Cutting

# Hybrid Bectro Dans SUBUS 1808

# Which Path? More Education or

**Enter Workforce** 

**Pathway** 

**Options** 

# Community College Prep Programs

#### **Business Education**

- Business Plan
- Supervision
- Customer Service
- Inventory Mgt.
- Financial Mgt.

#### **Transfer Preparation**

- Math
- Physics
- Gen. Ed
- CSU/IGETC

#### **4-Year Transfer/Degree**

- Business Management
- Electrical Engineering
- Mechanical Engineering
- Software Engineering
- Environmental Engineer

#### Employment Opportunities

#### **Entry Level:**

Lube Tech Tire & Battery Service Porter (Lot)

Parts Counter/Delivery

Inspection Auto Body Tech

Glass Installer

Upholstery/ Interior Audio/Sound/Network

Tune

Small Engine Repair

Assemblers Emissions/Smog Check Tech HVAC Tech

#### Middle Skill:

Service Manager Shop Foreman

Team Leader/Master Tech

Quality Control Service Writers

Cylinder Block Spec
Cylinder Head Machining

Machining (CNC)
Motorcycle Mechanic

Dissemblers Retail Dealer

#### High Skill:

Owner/Entrepreneur
Data Acquisition/Analysis Tech
Factory Engineering Tech

Teacher Software Engineering High Performance Engineering

#### \_

#### **Soft Skills for Employment**

Reliable, Timely, Driver's License, Good Driving Record, Professional Clean Language, Honesty, Cell Phone Do's & Don'ts, Communication (Oral, Written, Body Language), Work Ethic, Interpersonal Skills, Responsibility "No Excuses", Team Work, Show Initiative, Don't Just Stand There!, Attitude, Job Search Skills, Eye Contact, Firm Handshake, Personal Presentation, Resume Writing

# Skills

#### Are You Good At?

- Repairing ThingsProblem Solving
- Active Listening

## Wondering How to Get Started?

We offer a variety of automotive certificates, and can help you on your way to achieving an AS degree as well with the addition of a few general education classes. Just pick your path and choose between day or night classes! Many certificates can be finished within a year, and financial aid and scholarships are available.

### Automotive Information Links: Automotive Youth Educational

Systems http://www.ayes.org/

National Automotive Technicians Education Foundation http://www.natef.org/

National Institute for Automotive Service Excellence http://www.ase.com/

## Knowledge

#### Do You Like?

- Mechanical Repairs
- Customer ServiceNew Technologies
- Working with Computers