



# Advanced Automotive Academy

## 007-BI-Automotive & Diesel Technician

## 007-BI-Collision Repair Technician

### @SCTHS



The Automotive program of study teaches CTE learners how to repair and refinish automobiles and service various types of vehicles. CTE learners may learn to collect payment for services or supplies and perform typical vehicle maintenance procedures such as lubrication, oil changes, installation of antifreeze, or replacement of accessories like wiper blades or tires.

## Secondary Courses for High School Credit

### Level 1

- Dual Credit Courses with Lee College or LIT

### Level 2

- Dual Credit Courses with Lee College or LIT

### Level 3

- Dual Credit Courses with Lee College or LIT

### Level 4

- Dual Credit Courses with Lee College or LIT

## Postsecondary Opportunities

### Associates Degrees

- Autobody/ Collision and Repair Technology/ Technician
- Medium/Heavy Vehicle and Truck Technology/ Technician
- Mechanical Engineering/ Mechanical Technology/ Technician

### Bachelor's Degrees

- Mechanical Engineering/ Mechanical Technology/ Technician

### Master's, Doctoral, and Professional Degrees

- Mechanical Engineering

## Industry-Based Certifications – Diesel

- ASE Entry Level Automobile Maintenance and Light Repair (MR)
- ASE Entry-Level Automobile Engine Performance (EP)
- ASE Entry-Level Automobile Engine Repair (ER)
- ASE Entry-Level Collision Non-Structural Analysis and Damage Repair (SR)
- ASE Entry-Level Collision Painting and Refinishing (PR)
- ASE Entry-Level Collision Structural Analysis and Damage Repair
- ASE Entry-Level Medium/Heavy Truck, Brakes (TB)
- ASE Entry-Level Medium/Heavy Truck, Diesel Engines (DE)
- ASE Entry-Level Medium/Heavy Truck, Electrical/Electronic Systems (TE)
- ASE Entry-Level Medium/Heavy Truck, Suspension and Steering (TS)
- ASE Refrigerant Recovery and Recycling
- Diesel Technology - Job Ready
- Heavy Equipment Maintenance and Repair - Job Ready

## Work-Based Learning and Expanded Learning Opportunities

### Exploration Activities

- Join SkillsUSA or the Automotive Service Association

### Work-Based Learning Activities

- Work at a local automotive repair or body shop

## Industry-Based Certifications – Automotive & Collision

- ASE Entry Level Automobile Maintenance and Light Repair (MR)
- ASE Entry-Level Automobile Automatic Transmission/Transaxle (AT)
- ASE Entry-Level Automobile Brakes (BR)
- ASE Entry-Level Automobile Electronic/Electrical Systems (EE)
- ASE Entry-Level Automobile Engine Performance (EP)
- ASE Entry-Level Automobile Engine Repair (ER)
- ASE Entry-Level Automobile Heating and Air Conditioning (AC)
- ASE Entry-Level Automobile Manual Drive Train and Axles (MD)
- ASE Entry-Level Automobile Service Technology
- ASE Entry-Level Automobile Suspension and Steering (SS)
- ASE Entry-Level Collision Mechanical and Electrical Components (ME)
- ASE Entry-Level Collision Non-Structural Analysis and Damage Repair (SR)
- ASE Entry-Level Collision Painting and Refinishing (PR)
- ASE Entry-Level Collision Structural Analysis and Damage Repair
- Principles of Small Engine Technology Certification
- Small Engine Technology

- OSHA 30 Hour General\*
- ASE Suspension and Steering\*
- ASE Structural Analysis Damage Repair\*
- ASE Painting & Refinishing\*
- ASE Non-Structural Analysis Damage Repair\*
- ASE Mech Elec Components\*
- ASE Manual Drive Train Axles\*
- ASE Maintenance Light Repair\*
- ASE Heating, Ventilation, AC (HVAC)\*
- ASE Auto Transmission\*
- ASE Automobile Service Technology\*
- ASE Brakes\*
- ASE Electrical/Electronic Systems\*
- ASE Engine Performance\*
- ASE Engine Repair\*

\*IBC sunseting 8/31/24

## Aligned Occupations

| Occupations                                 | Median Wage | Annual Openings | % Growth |
|---------------------------------------------|-------------|-----------------|----------|
| Automotive Body and Related Repairers       | \$40,144    | 1,456           | 25%      |
| Automotive Service Technician and Mechanics | \$38,459    | 5,557           | 18%      |

Successful completion of the Automotive program of study will fulfill requirements of the Business and Industry endorsement. Revised – October 2022

# COURSE INFORMATION

## AUTOMOTIVE TECHNOLOGY - DUAL CREDIT WITH LEE COLLEGE

Advanced Automotive Academy students in the Automotive Pathway have the opportunity to earn the Certificate of Completion in Automotive Mechanics, Certificate of Completion in Automotive Technician and Associates of Applied Science in Automotive Technology.

AUMT 1405 Introduction to Automotive Technology  
AUMT 1312 Automotive Basic System  
AUMT 1407 Electrical Systems  
AUMT 2437 Auto Electronics  
AUMT 1416 Automotive Suspension and Steering Systems  
AUMT 1410 Automotive Brake Systems  
AUMT 1419 Engine Repair  
AUMT 1345 Climate Control  
AUMT 2417 Automotive Engine Perf. Analysis 1  
AUMT 2434 Automotive Engine Perf. Analysis 2  
AUMT 2413 Automotive Drivetrain & Axles  
AUMT 2413 Automotive Drivetrain & Axles

All courses are subject to change by Lee College. Please see cohort layout document for course order and high school alignment.

## DIESEL TECHNOLOGY - DUAL CREDIT WITH LEE COLLEGE AND LAMAR INSTITUTE OF TECHNOLOGY

Advanced Automotive Academy students in the Diesel Pathway have the opportunity to earn a Level 1 Certificate in Advanced Engine Technology, Level 2 Certificate in Advanced Engine Technology and Associates of Applied Science in Advanced Engine Technology.

AUMT 1405 Introduction to Automotive Technology  
AUMT 1312 Automotive Basic System  
AUMT 1407 Electrical Systems  
AUMT 2437 Auto Electronics  
DEMR 1306 Diesel Engine I  
DEMR 1313 Fuel Systems  
DEMR 1449 Diesel Engine II  
DEMR 1329 Preventive Maintenance  
DEMR 1410 Diesel Engine Testing and Repair 1  
DEMR 2348 Failure Analysis  
DEMR 2412 Diesel Engine Testing and Repair II  
DEMR 1316 Basic Hydraulics  
DEMR 2334 Advance Diesel Tune-up and Troubleshooting  
DEMR 1323 HVAC Troubleshooting and Repair  
DEMR 1280 Co-Op

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# COURSE INFORMATION

## COLLISION REPAIR - DUAL CREDIT WITH LAMAR INSTITUTE OF TECHNOLOGY

Advanced Automotive Academy students in the Collision Repair Pathway have the opportunity to earn a Level 1 Certificate in Collision Repair.

ABDR 1431 Basic Refinishing

ABDR 1455 Non-Structural Metal Repair

ABDR 1349 Automotive Plastic Repair

ABDR 2449 Advanced Refinishing

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