Class descriptions for Smog Tech Institute.

Smog Tech Institute operates under approval from the Bureau of Automotive Repair for the state of California. All classes or programs offered at Smog Tech Institute are under $2500.

Smog Tech Institute offers five programs or packages:

Smog Inspector: Includes the Inspector Level 1 and Inspector Level 2 classes for $1895.00.

Smog Inspector and Repair: This package, priced at $1895.00, includes the BAR-specified diagnostic and Repair and the Inspector Level 2 classes.

Smog Repair Technician: This package includes the BAR specified Diagnostic and repair class for $1400.00

Recertification package: This package includes the BAR-specified Diagnostic and Repair and the 16 Hour update class for $1690.00

Vehicle Safety Inspection: This package includes the Vehicle Safety Inspection prep class and the A6, A5, and A4 ASE classes Virtual for a total of $1680.00

All classes can be sold separately and include: :

BAR Specified Diagnostic & Repair Training (also known as Alternative A6, A8, L1)

Course Hours: 72

Tuition: $1400

Course Description: This training is designed to provide students with competency in diagnosing and repairing Smog Check failures, focusing on electrical/electronic systems, engine performance, and emission control. Students with at least two years of relevant experience who complete this training may qualify for the state licensing examination for the Smog Check Repair Technician License.

Upon completion, Students will receive a Certificate of Completion from the Bureau of Automotive Repair indicating they have successfully completed 72 hours of Bar-Specified Diagnostic and Repair Training.

Smog Inspector Level 1

Course Hours: 68

Tuition: $1400.00

Course Description: This course covers personal, shop, equipment, and vehicle safety practices, engine theory, design, and operation for both gasoline and diesel vehicles. It also includes identifying engine systems, parts, components, and emission control systems, checking ignition timing and exhaust gas recirculation systems, and monitoring readiness on vehicles with OBDII systems.

Upon completion, Students will receive a Certificate of Completion from the Bureau of Automotive Repair indicating they have successfully completed 68 hours of Inspector level 1 Training.

Smog Inspector Level 2

Course Hours: 28

Tuition: $495.00

Course Description: This course includes laws, regulations, and procedures related to consumer authorization of inspections and the administration of the Smog Check Program. It covers standards of practice, calibration of emission inspection systems, performing Smog Check emission and visual inspections, and functional tests on various vehicle designs.

Upon completion: Students will receive a Certificate of Completion from the Bureau of Automotive Repair indicating they have completed 28 hours of Inspector Level 2 Training.

BAR 16 Hour Update: Diesel Fundamentals & Diagnostics Principles (ID: UT026)

Course Hours: 16

Tuition: $290.00

Course Description:

Diesel engines are gaining popularity in the USA due to advancements in diesel technology, which now achieves emission levels comparable to gasoline engines. Consequently, many manufacturers are incorporating diesel power plants into their fleets for their efficiency and improved fuel mileage. This course addresses the common lack of understanding of diesel engines and fuel systems through the California Smog Check Program update training.

Students will gain comprehensive knowledge of diesel combustion principles, various fuel systems, emission systems and controls, intake systems, on-board diagnostics, and more. The course materials are industry-proven and NATEF certified, designed for higher education, and refined over the years. Additionally, the course includes practical lab sessions where students will

use scan tools to monitor diesel OBD II systems and determine codes, monitor readiness, and mode 6 data. Upon completion, students will have developed the skills necessary to diagnose tailpipe emissions and OBD II system failures in diesel fuel and emission systems. The certificate for completion is valid for two years from the final exam date.

Upon Completion, Students will receive a Certificate of Completion from the Bureau of Automotive Repair confirming that they have successfully completed UT026 OBD II System & Diagnostic Principles Training, a total of 16 hours.

BAR 16 Hour Update: Hybrid Fundamentals & Safety (ID: UT029)

Course Hours: 16

Tuition: $290.00

Course Description:

Hybrid vehicles are becoming mainstream in the USA, driven by EPA mandates for higher gas mileage and lower emissions. As the California Smog Program begins certifying hybrids, smog technicians need to understand these complex vehicles. This course aims to provide a basic understanding of hybrid systems and safety protocols, addressing potential dangers associated with high-voltage systems.

Students will learn about hybrid technology, including series and parallel designs, generators, inverters, converters, internal combustion engine design and features, heating and ventilation, and successful Toyota hybrid models. A significant focus will be on safety procedures for handling high-voltage systems and distinguishing between high- and low-voltage components. This training aims to build technicians' confidence when working with hybrid technology.

Upon Completion, Students will receive a Certificate of Completion from the Bureau of Automotive Repair confirming that they have successfully completed UT029 Hybrid fundamentals, which totals 16 hours.

BAR 16 Hour Update: New Technologies (ID: UT028)

Course Hours: 16

Tuition $290.00

Course Description:

This course aims to provide a comprehensive understanding of the current complex network systems that technicians encounter. It covers diagnosis methods for emission failures and provides tools and knowledge for diagnosing new systems such as throttle control, direct injections, wide band O2 sensors, and variable cam timing. The curriculum includes practical lab sessions where students will use a scan tool to monitor OBD II systems, perform CAN communication checks, identify codes, and analyze wideband O2 sensor data and variable cam

timing data. By the end of this course, students should be able to diagnose CAN communication failures, variable cam timing issues, throttle control systems, direct injection problems, and complex ignition system failures. The completion certificate is valid for two years from the final exam date.

Upon completion: Students will receive a Certificate of Completion from the Bureau of Automotive Repair stating they have completed UT028 New Technologies training 16 Hours.

BAR 16 Hour Update: OBD II System & Diagnostic Strategies (ID: UT027)

Course Hours: 16

Tuition $290.00

Course Description:

This course is designed to help technicians develop critical thinking skills for accurate and timely diagnostics in California's smog test program. It focuses on diagnostic strategies to minimize diagnostic time and improve accuracy, utilizing vehicle diagnostics like Mode 6, fuel trim, and emission diagnostic monitors. The manual begins with a refresher on basic computer operations and then delves into diagnostic approaches such as the 8-step approach, symptom-based diagnostics, and oscilloscope diagnostics. The course includes practical labs requiring students to use a scan tool to monitor OBD II systems, understand the 9 modes of operation in the global OBD II system, interpret mode data, and perform fuel trim calculations. Upon completion, students should be proficient in diagnosing most symptom-based and code-related concerns of failed vehicles. The completion certificate is valid for two years from the final exam date.

Upon completion: Students will receive a Certificate of Completion from the Bureau of Automotive Repair stating they have completed UT027 OBD II System & Diagnostic Strategies Training 16 Hours.

BAR 16 Hour Update: Smog Check Diagnosis and Permanent DTCs (ID: UT062)

Course Hours: 16

Tuition $290.00

Course Description:

This course addresses using various fuels, including gasoline, diesel, and biodiesel, and their impact on air/fuel ratios and trimming. It emphasizes the importance of monitors and Mode $06 as diagnostic tools for identifying drivability concerns by examining PCM test results on emissions systems. Starting July 1, 2019, vehicles from 2010MY and newer with an OBD II Permanent Diagnostic Trouble Code (PDTC) stored in memory will fail the BAR-OIS Smog Check, adding to existing inspection requirements. Understanding PDTCs and clearing codes stored in permanent memory is crucial for verifying successful emission repairs.

Upon completion: Students will receive a Certificate of Completion from the Bureau of Automotive Repair stating they have completed UT062 Smog Check Diagnosis and Permanent DTCs Training 16 Hours.

Diesel and Aftertreatment Systems (ID: UT064)

Course Hours: 16

Tuition $290.00

Course Description:

Course Description: This updated course offers technicians a comprehensive understanding of the theory, operation, and diagnostic procedures for modern diesel vehicles. It delves into the latest technologies that reduce emissions through advanced after-treatment systems. The course covers the fundamentals of diesel engines, including operation, compression fuel ignition, air intake systems, and turbocharging, in detail. Additionally, it addresses diesel after-treatment OBD II monitors.

Upon completion: Students will receive a Certificate of Completion from the Bureau of Automotive Repair stating they have completed UT064 Diesel Aftertreatment Systems 16 Hours.

Incomplete Readiness Flags and Monitors Tests (ID: UT077)

Course Hours: 16

Tuition $290.00

Course Description:

BAR Updates:

Updates on the BAR website, Inspector and Repair Licensing Procedures - BAR Inspector Update Module - Data Check and Modified Software - Calibration Identification and Calibration Verification Number - Case study applying techniques covered in class

Incomplete Readiness Flags and Monitor Tests:

Understanding Readiness Flags and Monitor Tests - Driver Seat Diagnostic Approach - Differences between Readiness Flags and Monitor Tests - Completion vs Condition ratios - Using GLOBAL OBDII MODES to identify issues - Case studies applying techniques

Mysteries of Running Monitor Tests:

Preparing for Monitor Tests - Time requirements - Exhaust Time - Samples/Flow Counts - Parallel/Series Monitor Tests - Filtering techniques - Exponentially Weighted Moving Average explanation, in detail. Additionally, it addresses diesel after-treatment OBD II monitors.

Upon completion: Students will receive a Certificate of Completion from the Bureau of Automotive Repair stating they have completed UT077 Incomplete Readiness Flags and Monitors.

Citation Level 1

Course Hours: 8

Tuition: $280.00

Course Description:

This course involves 8 hours of training. The student will perform smog checks under the supervision of a BAR-certified instructor and must pass an exam with a score of at least 70%.

Upon completion: The student will get a certificate of completion to clear his citation

Citation Level 2

Course Hours: 28

Tuition: $495.00

Course Description:

This course covers the laws, regulations, and procedures related to consumer authorization of inspections and the overall administration of the Smog Check Program. It includes standards of practice for Smog Check Inspectors, calibration of emission inspection systems, and skills in performing Smog Check tests on various vehicle designs, including visual inspections and functional tests.

Upon completion: The student will receive a Certificate of Completion from the Bureau of Automotive Repair confirming successful completion of Citation Level 2 Training.

Citation Level 3

Course Hours: 68

Tuition: $1400.00

Course Description:

This course includes comprehensive training on safety practices, engine theory, and operation for both gasoline and diesel vehicles. It covers identifying engine systems, emission control systems,

checking ignition timing, exhaust gas re-circulation systems, and monitor readiness on OBDII-equipped vehicles.

Upon completion: The student will receive a Certificate of Completion from the Bureau of Automotive Repair confirming successful completion of Citation Level 3 Training.

Vehicle Safety Inspection Exam Prep Class

Course Hours: 28 hours

Tuition: $495.00

Course Description:

This workshop is designed to assist technicians in preparing for the state Vehicle Safety Inspection Exam. It is not a certified course and is not mandated by the state. The workshop provides hands-on training in brake system inspections, measurement of standard brake components, and lighting system inspections with adjustment procedures. Additionally, it covers the rules and regulations related to the brake and lamp program. Lectures will address the latest braking systems and advanced lighting systems. By the end of the course, participants should acquire knowledge that will give them an advantage when taking the California brake and lamp examination.

Upon completion: The student does not receive a certificate of completion.

Workshops

Online Self-Paced Diesel Fuel and Aftertreatment Systems Workshop

Course Hours: 16 hours

Tuition: $195.00

Course Description:

This course will update the Technician's knowledge and understanding of modern-day diesel vehicles. It covers the theory, operation, and diagnostic processes of diesel engines. Additionally, the course provides an in-depth understanding of new technologies that lower emissions through a new generation of aftertreatment emission control systems.

The course discusses fundamental diesel topics such as diesel engine operation, compression fuel ignition, air intake systems, and turbocharging. It also covers diesel aftertreatment OBD II monitors.

Upon completion: Students will not receive a certificate for workshops.

Online Self-Paced OBD II System Operation and Diagnostics Workshop

Course Hours: 16 hours

Tuition: $195.00

Course Description:

This course centers on imparting diagnostic strategies essential for today's technicians to streamline their diagnostic procedures and enhance precision. It strongly emphasizes harnessing the diagnostic systems integrated into modern vehicles, including Mode 6, Fuel Trim, and Emission Diagnostic Monitors.

The course commences with a chapter on fundamental computer operations, offering a refresher on how computers function and make decisions. Subsequently, it delves into the purpose and functionality of the OBD II system before progressing to various diagnostic approaches, such as the 8-step method, Symptom-based diagnostics, Mode 6, and Fuel trim diagnosis.

Upon completion: Students will not receive a certificate for workshops.

Online Self-Paced HYBRID FUNDAMENTALS AND SAFETY WORKSHOP

Course Hours: 16

Tuition: $195.00

Course Description:

This course does not aim to provide students with all the knowledge necessary to work on hybrid or Electric vehicles. Smog Tech Institute warns technicians to strictly adhere to all published safety guidelines when working on or around hybrid and electric cars. The institute recommends a higher level of training than what this course offers to ensure safety. High-voltage systems are robust and hazardous and can result in fatal accidents for technicians who do not have sufficient training.

Hybrids have become mainstream in the USA, and as EPA mandates stricter gas mileage and emissions requirements, manufacturers are set to meet these demands. This course introduces students to a basic understanding of all the systems on hybrid vehicles and the fundamentals of the different types of hybrid designs such as Series, Parallel, and Series-Parallel. The course will strengthen students' knowledge of generators, inverters, and converters and will provide a thorough understanding of the difference between high-voltage and low-voltage systems. Additionally, the course will cover regenerative braking systems and safety techniques that must be followed by all technicians working on or around hybrid electric vehicles.

Upon completion: Students will not receive a certificate for workshops.

Online Self-Paced New Technologies Workshop

Course Hours: 16 hours

Tuition: $195.00

Course Description:

he world of automotive diagnosis has evolved significantly with the introduction of complex systems like CAN Networks, Variable Cam Timing, Throttle Control Systems, Direct Injection, and Air Fuel Ratio Sensors. This course is designed to equip students with the knowledge and diagnostic skills required to diagnose and repair vehicles utilizing such intricate systems effectively.

Each chapter will delve into the theory and operation of these systems, offering practical diagnostic strategies based on real-world scenarios. By the end of the course, students should have a solid understanding of five critical systems that are often challenging to repair.

Upon completion: Students will not receive a certificate for workshops.

ASE Practice Test Online Self-Paced

Tuition: $9.95

Course Description:

These are practice tests with multiple subjects that are designed to help improve the automotive technician ASE test results.

Upon completion: Students will not receive a certificate.

ASE Online Self-Paced Exam Prep Class A6 Automotive Electrical

Hours: 20

Tuition: $295.00

Course Description:

The course consists of several modules:

- Electrical Fundamentals
- Battery and Starting Systems
- Charging Systems
- Lighting Systems
- Gauges and Warning Devices
- Wiring and Connector Repair

Upon completion: Students will not receive a certificate.

ASE Online Virtual Instructor-led ASE Prep Class A6 Automotive Electrical

Hours: 20

Tuition: $395.00

Course Description:

The course consists of several modules:

- Electrical Fundamentals
- Battery and Starting Systems
- Charging Systems
- Lighting Systems
- Gauges and Warning Devices
- Wiring and Connector Repair

Upon completion: Students will not receive a certificate.

Smog Inspector Online Test Prep

Tuition: $75.00

Course Description:

STI SMOG TECH INSTITUTE Study Guide for the California Smog License Inspector Exam The purpose of this study guide is to help you prepare for the California Smog License Inspector Exam.

This guide addresses current smog laws as they pertain to the professional Smog Inspector and provides general knowledge of emission controls, functional and visual inspections, and testing procedures.

Rather than memorizing information, this guide's purpose is to help the Technician understand the procedures to follow to conduct a proper Smog Check and gain a deeper understanding of the Laws and regulations of the State of California as they pertain to the Smog Check Inspection Program.

This guide offers detailed answers to each question and correct answers to the pertinent sections of the Smog Check Reference Guide (SCRG), the Smog Check Inspection Manual (SCIM), the Write it Right Guide, and the California Code of Regulations (CCR).

Upon completion: Students will not receive a certificate.

Smog Repair Online Test Prep

Tuition: $75.00

Course Description:

Study Guide for the California Smog License Repair Technician Exam The study guide aims to help you prepare for the California Smog License Repair Technician Exam.

This guide addresses current diagnostic and repair procedures. Rather than memorize information, the purpose of this guide is to help the Technician understand the procedures to follow to perform a successful diagnosis and repair, and how to advise customers of their rights and obligations properly.

This guide offers correct answers to each question, detailed explanations, and references to the pertinent sections of the Smog Check Reference Guide (SCRG), the Smog Check Inspection Manual (SCIM), and the Write it Right Guide.

Upon completion: Students will not receive a certificate.

Smog Tech Institute Classes Online Exam Prep

Tuition: Free

Course Description:

BAR 16 Hour Update New Technologies Final Exam Test Prep

BAR 16 hour Diesel Fundamentals Final Exam Test Prep

BAR 16 Hour Smog Check & PDTCs Final Exam Prep

BAR 16 hour OBD II Final Exam Test Prep

BAR 16 HOUR Diesel Aftertreatment
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A6 Final Prep For Bar Specified Diagnostic and Repair Training

A8 Final Prep For Bar Specified Diagnostic and Repair Training

L1 Final Prep for Bar specified Diagnostic and Repair Training

Upon completion: Students will not receive a certificate.

Price List

PACKAGES	COURSE HOURS	PRICE	DISCOUNT
Smog Inspector	96	$1895.00	$1795.00
Test & Repair	100	$1895.00	$1795.00
Repair Only	72	$1400.00	$1300.00
Recertification	88	$1690.00	$1350.00
Vehicle Safety Inspection	92	$1680.00	$1495.00
INDIVIDUAL CLASSES			
BAR 16 Hour Update	16	$340.00	$290.00
Inspector Level 1	68	$1400.00	$1300.00
Inspector Level 2	28	$495.00	$495.00
BAR Specified Diagnostic Repair	72	$1400.00	$1300.00
Citation Level 1	8	$280.00	$280.00
Citation Level 2	28	$495.00	$495.00
Citation Level 3	68	$1400.00	$1300.00
Vehicle Safety Inspection	28	$495.00	$495.00
Workshops	16	$295.00	$295.00
ASE Prep Classes (Virtual Online)	24	$395.00	$395.00
ASE Prep Classes (Self-paced Online)	24	$295.00	$295.00