Department of Consumer Affairs
Bureau of Automotive Repair
Smog Check Inspector
&
Smog Check Repair Technician
Licensing Examinations

CANDIDATE INFORMATION BULLETIN

CONTENT OUTLINE

Section I: Introduction ........................................... 2
Purpose .............................................................. 2
Section II: Preparing for the Examination(s) .................. 2
Where to Begin .................................................... 2
How the Examinations are Developed ....................... 2
License Classifications ......................................... 2
Trade Experience ................................................ 3
Training ............................................................. 3
Study Courses and Publications ............................... 3
Resources .......................................................... 3
Reference Materials ............................................. 4
Description of Smog Check Inspector Training .......... 6
Inspector License Requirements ............................. 7
Technician License Requirements ............................ 8
Section III: Application Procedures ......................... 9
How to Apply ................................................... 9
Special Accommodations Available ...................... 9
Candidate Eligibility ......................................... 9
Application and Examination Fees ....................... 9
Section IV: Description of the Examinations .............. 10
Inspector Examination Plan ................................ 11
Repair Technician Examination Plan .................. 17
Section V: The Examination Registration Process ........ 23
Examination Fee ............................................... 23
Internet Registration and Scheduling .................... 23
Telephone Registration and Scheduling ................. 23
Fax Registration and Scheduling ........................ 23
Standard Mail Registration and Scheduling ............ 23
Canceling an Examination .................................. 24
Missed Appointment or Late Cancellation ............... 24
Emergency Examination Center Closing ................ 24
Examination Site Locations ................................ 24
Reporting to the Examination Site ......................... 26
Required Identification at the Examination Site ....... 26
Security Procedures ........................................... 26
Special Testing Considerations .......................... 27
Taking the Examination by Computer ................ 27
Identification Screen ......................................... 27
Tutorial ............................................................ 27
Tips for Preparing for your Examination ............... 28
Section VI: The Licensing Examination .................. 29
Multiple-Choice Questions ................................ 29
Section VII: After the Examination is Over ............. 30
Examination Results ......................................... 30
Retaking an Examination ................................... 30
Section VIII: Obtaining a License ......................... 31
Initial Licensing Flowchart ................................ 32
Examination Registration Form .......................... 33

Please refer to our website to check for the most updated information at www.psiexams.com.

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SECTION 1: INTRODUCTION

PURPOSE
The California Department of Consumer Affairs, Bureau of Automotive Repair (BAR) developed this handbook to help you prepare for the Smog Check Inspector Licensing Examination and the Smog Check Repair Technician Licensing Examination. The purpose of each examination is to assess the basic qualifications of the applicant. We strongly recommend that you read every section of this handbook carefully, well in advance of the examination(s).

The Smog Check Inspector Licensing Examination and the Smog Check Repair Technician Licensing Examination are used only to initially obtain a license. Smog Check Inspectors and Smog Check Repair Technicians renewing a license must complete and submit a license renewal application to BAR. Additional requirements for renewal of these licenses may be required.

Licensed Smog Check Inspectors may inspect and certify vehicles included in the Smog Check Program, no smog related diagnoses or repairs may be performed by Inspectors. Smog Check Repair Technicians may perform vehicle emission control system adjustments, diagnoses and repairs to failed vehicles included in the Smog Check Program. Smog Check inspections and repairs may only be completed by licensed Inspectors and Repair Technicians at appropriately licensed stations.

This handbook will not give you all the knowledge that you need. It is intended to help you determine what training and/or skills you need to pass the Inspector and/or Repair Technician examination and provide an idea of what the actual examinations are like.

The handbook gives recommendations for studying, information on the format of the examinations, a general description of the examinations, and examples of the kinds of questions you will encounter with each examination.

SECTION II: PREPARING FOR THE EXAMINATION

WHERE TO BEGIN
In general, the Smog Check Inspector Licensing Examination evaluates a candidate’s knowledge of Smog Check Program inspection requirements. The Smog Check Repair Technician Licensing Examination evaluates a candidate’s knowledge of diagnoses and repairs. The questions in each examination are based on an Examination Plan. Review the information contained in this handbook carefully, including the examination plans, and set an appropriate schedule of study and review.

HOW THE EXAMINATIONS ARE DEVELOPED
The examinations are developed by licensed Smog Check Technicians who work within guidelines established by DCA for the licensing of many regulated trades and professions. Every attempt is made to assure that the questions fairly and reasonably measure the competencies listed in the Examination Plans in Section IV.

First, the questions are written in a structured setting by technicians and are edited and reviewed by several groups of technicians. This assures that the questions are job-related and written in terms used by practicing technicians. This process provides for an impartial review of the questions to verify their accuracy and technical quality.

A series of statistics are compiled on each question. These statistics assist BAR in determining if a question is a fair measure of knowledge.

Then, the passing score is determined by another group of licensed technicians, who evaluate the difficulty of each question, as it relates to entry practice. These evaluations are analyzed, and the passing score is determined, with an acceptable level of confidence that the examination separates the qualified candidates from the non-qualified candidates. Different forms of the examination may have different passing scores.

LICENSE CLASSIFICATIONS
All applicants for a Smog Check Inspector or a Smog Check Repair Technician license must use the most current license application form. The form is available on the Smog Check website (www.bar.ca.gov) under the Industry tab.

Regulations establish two classifications of licenses: Inspector and Repair Technician. Detailed qualification requirements are provided on Pages 7 to 8 of this handbook.

Individuals employed to perform inspections must possess a Smog Check Inspector License. Individuals employed to perform Smog Check related repairs must possess a Smog Check Repair Technician License. Inspectors employed in a licensed station may perform inspections in all areas of the State. Repair Technicians may perform diagnoses and repairs in a licensed repair station or test and repair station in all areas of the State.

TRADE EXPERIENCE
Significant portions of the examination(s) relate directly to actual situations. Experience you acquire performing inspections, emission control, and related diagnostic and repair work increases the likelihood that you will answer these questions correctly.
TRAINING

Smog Check Inspector and Repair Technicians shall have the option to do hands-on work in lieu of written work in order to successfully complete the department specified training and retraining courses or may complete comparable military training as documented by submission of Verification of Military Experience and Training (V-MET) records in lieu of meeting any other training-related requirements.

STUDY COURSES AND PUBLICATIONS

Some persons may offer examination preparation courses or publications. We have no information to indicate that applicants who use these sources have a higher pass rate than those who do not. Training courses, other than BAR specified (or citation) courses, are not associated with BAR. No publishers or training sponsors have legal access to BAR’s examination materials. We make every effort to ensure that the contents of our examinations remain confidential and that the questions are changed frequently.

RESOURCES

A. INFORMATION ON PERFORMING INSPECTIONS

Review of BAR training materials is helpful. They include the current edition of the Smog Check Manual, Smog Check Reference Guide, OBD Test Reference, the BAR “Write It Right” booklet, as well as current Laws and Regulations Relating to Licensed Smog Check Stations.

See the reference materials list on the following page.

B. INFORMATION ON DIAGNOSIS AND REPAIR (TECHNICIAN APPLICANTS)

A number of commercially available publications, as well as training classes, offer detailed diagnostic and repair information (including diagrams and illustrations). They may be obtained from public and college libraries, bookstores, test equipment manufacturers, parts manufacturers, private and public schools, and vehicle manufacturers.
Competency-based examinations are not based solely on textbook information, but on the skills and competencies required for safe and successful performance as a Smog Check Inspector or Repair Technician. Nevertheless, the following resources may be useful in reviewing information required for the examination and for organizing the material for study purposes.

When selecting publications, always confirm that you have the most recent editions. The references provided here may or may not represent the current editions. BAR does not endorse the publications used as a reference for the Repair Technician examination other than to disclose that they were used in the examination development process.

In addition, do not limit your study to the resources provided here. Although the references listed below present useful information, there are a number of additional or alternative sources that are suitable for study, including BAR’s website. The list should be considered as illustrative rather than exhaustive. The references should be available from bookstores, on the Internet, or by contacting the publisher.

Applicants should review the Examination Plans carefully to obtain a reasonable expectation of the different topics for which they will be responsible, and to identify areas for which focused review may be helpful.

**Available from BAR**

The BAR publications listed below were used as references when writing questions for both the Smog Check Inspector and Repair Technician licensing examinations. They are available on the Bureau of Automotive Repair’s Smog Check website (www.bar.ca.gov). For Inspector candidates, BAR certified schools will also make these publications available as part of the training materials for the required Smog Check Training (Level 2). In addition to the procedural and administrative information contained in these publications, Inspector candidates must also have basic working knowledge of vehicle engine and emission control systems. To obtain this knowledge, Inspector candidates with minimal or no experience must complete the BAR specified Engine and Emission Control Training (Level 1). See page 6 for Inspector training information.

**Smog Check Manual**, Bureau of Automotive Repair.


**OBD Test Reference**, Bureau of Automotive Repair.

**Write It Right Booklet**, Bureau of Automotive Repair.


**Repair Technician Examination Reference Materials**

*Only available commercially*

ATG, Advanced Drivability Diagnostic Strategies. San Diego, California; ATG, Inc. 2012; (858)486-8525

ATG, Chrysler Engine Performance. San Diego, California; ATG, Inc. 2012; (858)486-8525

ATG, Ford Engine Performance (1996-2011). San Diego, California; ATG, Inc. 2011; (858)486-8525

ATG, General Motors Engine Performance. San Diego, California; ATG, Inc. 2013; (858)486-8525

ATG, Hyundai and Kia Engine Performance. San Diego, California; ATG, Inc. 2011; (858)486-8525

Birnbaum, Ralph and Truglia, Jerry, Mode 6 and Evaporative Emission System Diagnosis. ATTS 2006


Delphi, A Common OBD II Failure - The Misfire Monitor. Delphi Corporation; (800)545-2220

SV10845-11B1

Delphi, Compression. Delphi Corporation; (800)545-2220

SV10848-11B1

Delphi, Diagnosing and Repairing Catalyst and O2 Monitor Failures. Delphi Corporation 2011; (800)545-2220

SV11250-11B1

Delphi, Engine Management - Continuous OBD II Monitors. Delphi Corporation 2011; (800)545-2220

SV10691-11B1

Delphi, Diagnosing OBD II Failures Related to EGR Systems. Delphi Corporation; (800)545-2220

SV10843-11B1

Delphi, Diagnosing and Repairing Fuel Control Monitoring Failures. Delphi Corporation; (800)545-2220

SV10858-11B1

Delphi, Diagnosing and Repairing Evaporative Monitoring Failures. Delphi Corporation; (800)545-2220

SV10844-11B1

Delphi, Hybrid Electric Vehicles-First Look. Delphi Corporation; (800) 545-2220

SV11234-11B1

Delphi, OBD II Diagnostic Scan Tools. Delphi Corporation, 2008

SV10688-11B1; (800)545-2220


**DESCRIPTION OF INSPECTOR TRAINING**

**BAR-specified Engine and Emission Control Training (Level 1)** is only required for Inspector license candidates with minimal or no experience. See the Inspector license qualification requirements on the following page for more information. The training is a minimum of 68 hours in length and covers:

- Personal, shop, equipment, environmental, and vehicle safety practices
- Engine theory, design and operation
- Identification of engine systems, parts and components
- Emission control system theory, design and operation
- Identification of emission control systems, parts and components
- On Board Diagnostics (OBD II) systems
- Ignition timing inspection
- Exhaust gas recirculation systems

**Smog Check Training (Level 2)** is required for all Inspector candidates. See the Inspector license qualification requirements on the following page for more information. The training is a minimum of 20 hours and covers:

- Personal, shop, equipment, environmental, and vehicles safety practices
- Rules associated with customer authorization and the overall administration of the Smog Check Program
- Operation and calibration of Smog Check inspection systems
- OBD II inspections
- Tailpipe emission inspections - loaded mode and two-speed-idle
- Emission control system visual inspections
- Emission control system functional inspections
# INSPECTOR LICENSE REQUIREMENTS

## THIS LICENSE REQUIRES AN EXAMINATION

The Inspector license allows an individual to inspect and certify the emission control systems on vehicles subject to the Smog Check Program at licensed Test Only or Test and Repair stations in all Smog Check program areas of California.

To qualify to take the examination, the applicant must successfully complete the BAR Smog Check Training (Level 2) within the last two years **AND** meet one of the following **three** requirements:

1. **Training:**
   - Successfully complete the BAR specified Engine and Emission Control Training (Level 1) within the last two years; **OR**

2. **Certification:**
   - Possess certification from the National Institute for Automotive Service Excellence (ASE) in all three of the following areas: A-6 Electrical/Electronic Systems, A-8 Engine Performance, and L-1 Advanced Engine Performance Specialist; **OR**

3. **Education/Experience:**
   - Possess an Associate of Arts or Associate of Science degree or higher in Automotive Technology, from a state accredited or recognized college, public school, or trade school, **AND** have one year automotive repair experience in the engine performance area; **OR**

   - Possess a certificate in automotive technology, from a state accredited or recognized college, public school, or trade school with a minimum of 720 hours of course work that includes at least 280 hours of course work in the engine performance areas, **AND** have one year of automotive repair experience in the engine performance area; **OR**

   - Have a minimum of two years of automotive repair experience in the engine performance area, **AND** have successfully completed the BAR Specified Diagnostic and Repair Training (alternative training) within the last five years.
The Repair Technician license allows an individual to diagnose, adjust and repair the emission control systems on vehicles subject to the Smog Check Program at licensed Repair Only or Test and Repair stations in all Smog Check program areas of California.

To qualify to take the examination, the applicant must meet either the Certification requirements OR the Education/Experience requirements:

**Certification**

The applicant must possess certification from the National Institute for Automotive Service Excellence (ASE) in all three of the following areas:

- A-6 Electrical/Electronic Systems
- A-8 Engine Performance
- L-1 Advanced Engine Performance Specialist

**Education/Experience**

The applicant must meet one of the following requirements:

- Possession of an Associate of Arts or Associate of Science degree or higher in Automotive Technology, from a state accredited or recognized college, public school, or trade school, AND have one year automotive repair experience in the engine performance area, OR

- Possession of a certificate in automotive technology, from a state accredited or recognized college, public school, or trade school with a minimum of 720 hours of course work that includes at least 280 hours of course work in the engine performance areas, AND have one year of automotive repair experience in the engine performance area; OR

- Have a minimum of two years of automotive repair experience in the engine performance area, AND have successfully completed the BAR Specified Diagnostic and Repair Training within the last five years.
SECTION III: APPLICATION PROCEDURES

HOW TO APPLY
Applications must be complete and accurate and be submitted with a $20 application fee to BAR’s Licensing Unit. Incomplete applications will be rejected, delaying the review process.

Current policy allows two test attempts per examination before applicants are required to submit another application.

Applicants who falsify applications or supporting documents may have their licenses denied, revoked or suspended.

The examination fee(s) will be collected separately by the examination administration contractor, PSI licensure: certification (PSI).

APPLICATION AND EXAMINATION FEES
A $20 application fee must accompany your initial licensing application. Your approved application allows two attempts to pass the examinations(s). However, if you fail the first attempt, there must be at least 14 days between examination attempts. If you fail the second attempt, you must submit another application, and $20 application fee, to the BAR Licensing Unit. See the flowchart on Page 30 for details.

A separate $44.25 examination fee must be paid to PSI for each examination attempt. If you cancel or don’t show up without following PSI’s guidelines, the examination fee(s) is forfeited. See “Rescheduling” for further details.

SPECIAL ACCOMMODATIONS AVAILABLE
If you need special accommodations to take an examination, mark the box on the application indicating that you may need assistance during the written examination. BAR will mail you a Request for Special Accommodations form, which must be completed and returned. The appropriate licensed health care provider (or licensed counselor) must write a letter answering all the questions on the special accommodations form, confirming the disability and justifying the need for special accommodations using the criteria in the request form.

NOTE: English as a second language is NOT a disability, and special accommodations are not granted for this circumstance.

CANDIDATE ELIGIBILITY
Once a candidate is determined to be eligible, BAR will notify PSI. PSI will mail an eligibility notice indicating how the candidate may register for and schedule an examination. An examination appointment date is usually available to each candidate within two weeks.

To be eligible to take an examination, the applicant must not have any outstanding BAR citations. Pending enforcement actions will not prohibit you from taking the examination but may prevent issuance of a license.

In addition, the law requires the Department to check a list of individuals who have not paid their family support or tax obligations. A license cannot be issued or renewed for an individual who has been identified as not meeting their family support or tax obligations. However, a temporary license may be issued to permit resolution of the family support or tax obligation.
Listed below are the content areas and the associated percentage of questions for the Inspector and the Repair Technician licensing examinations.

### Smog Check Inspector Examination

<table>
<thead>
<tr>
<th>Sections</th>
<th>Percentage of Questions*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharging Obligations to Consumers</td>
<td>19%</td>
</tr>
<tr>
<td>Identifying the Vehicle to be Tested</td>
<td>10%</td>
</tr>
<tr>
<td>Inspecting the Vehicle to be Tested for Safety</td>
<td>7%</td>
</tr>
<tr>
<td>Calibrating, Maintaining, and Servicing the Analyzer/Test System</td>
<td>6%</td>
</tr>
<tr>
<td>Preparing for and Safely Conducting Emissions Tests</td>
<td>13%</td>
</tr>
<tr>
<td>Performing Functional Tests</td>
<td>10%</td>
</tr>
<tr>
<td>Performing Visual Inspections</td>
<td>35%</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

*The percentage of examination content listed above is approximate.

The examination for the Smog Check Inspector License has a total of 110 questions (90 scored questions and 20 unscored questions used for statistical research purposes only). A candidate’s answers to these unscored questions will not affect their score, but since the candidate does not know which ones they are, the candidate should answer all questions in the examination. A candidate is allowed 2 1/2 hours to take the examination.

### Smog Check Repair Technician Examination

<table>
<thead>
<tr>
<th>Sections</th>
<th>Percentage of Questions*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharging Obligations to Consumers</td>
<td>10%</td>
</tr>
<tr>
<td>Diagnosing Test Failures</td>
<td>60%</td>
</tr>
<tr>
<td>Performing Repairs</td>
<td>30%</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

*The percentage of examination content listed above is approximate.

The examination for the Smog Check Repair Technician License has a total of 120 questions (100 scored questions and 20 unscored questions used for statistical research purposes only). A candidate’s answers to these unscored questions will not affect their score, but since the candidate does not know which ones they are, the candidate should answer all questions in the examination. A candidate is allowed 3 hours to take the examination.
# INSPECTOR EXAMINATION PLAN

The following is the examination plan for the Inspector examination. This information was used by subject matter experts to write examination questions.

## I. Discharging Obligations to Consumers (19%)

This area assesses the candidate’s ability to consult with the consumer about the requirements of the Smog Check program and the requirements of consumer authorization to perform smog check inspections according to state law and regulations.

<table>
<thead>
<tr>
<th>TASKS</th>
<th>ASSOCIATED KNOWLEDGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ Inform customers about the benefits of the smog check program.</td>
<td>✓ Knowledge of laws and regulations pertaining to vehicles subject to</td>
</tr>
<tr>
<td>✓ Review vehicle information to determine type of smog check</td>
<td>smog check inspection.</td>
</tr>
<tr>
<td>inspection to be performed (e.g., program area, vehicle model</td>
<td>✓ Knowledge of methods and resources used to determine if a vehicle</td>
</tr>
<tr>
<td>year).</td>
<td>requires smog check inspection.</td>
</tr>
<tr>
<td>✓ Inform customers about pretest smog check inspection options</td>
<td>✓ Knowledge of pretest smog check inspection options.</td>
</tr>
<tr>
<td>(e.g., partial, complete).</td>
<td>✓ Knowledge of methods and procedures used to prepare cost estimates</td>
</tr>
<tr>
<td>✓ Inform customers about possible vehicle test restrictions (e.g.,</td>
<td>for smog check inspections.</td>
</tr>
<tr>
<td>directed vehicles, STAR, Referee).</td>
<td>✓ Knowledge of information to provide on cost estimates for smog check</td>
</tr>
<tr>
<td>✓ Provide customers with cost estimates for performing smog check</td>
<td>inspections.</td>
</tr>
<tr>
<td>inspection.</td>
<td>✓ Knowledge of laws and regulations requiring customer authorization for</td>
</tr>
<tr>
<td>✓ Obtain customers’ authorization to perform smog check inspection.</td>
<td>smog check inspections.</td>
</tr>
<tr>
<td>✓ Provide customers with itemized invoices and VIRs.</td>
<td>✓ Knowledge of how to explain VIR results to customers.</td>
</tr>
<tr>
<td>✓ Explain smog check results on the VIR to customers.</td>
<td>✓ Knowledge of laws and regulations regarding performing minor repairs</td>
</tr>
<tr>
<td>✓ Obtain customers’ authorization to perform allowable minor</td>
<td>on vehicles.</td>
</tr>
<tr>
<td>repairs on vehicles prior to/during smog check inspections.</td>
<td>✓ Knowledge of laws and regulations regarding informing customers about</td>
</tr>
<tr>
<td>✓ Inform customers regarding minor repairs that are recommended</td>
<td>repair cost waivers.</td>
</tr>
<tr>
<td>to be performed on vehicles prior to/during smog check inspections.</td>
<td>✓ Knowledge of information to provide customers regarding available</td>
</tr>
<tr>
<td>✓ Inform customers about laws and regulations on aftermarket parts.</td>
<td>smog check assistance programs (e.g., CAP, Parts Locator, repair cost</td>
</tr>
<tr>
<td>✓ Provide customers with information on how to access the BAR</td>
<td>waiver).</td>
</tr>
<tr>
<td>website to find stations authorized to diagnose and repair</td>
<td>✓ Knowledge of laws and regulations regarding Referee referrals (e.g.,</td>
</tr>
<tr>
<td>vehicles upon inspection failure.</td>
<td>grey market vehicle, engine change, SPCNS).</td>
</tr>
<tr>
<td>✓ Inform customers regarding available smog check assistance</td>
<td>✓ Knowledge of documentation required for Referee referral.</td>
</tr>
<tr>
<td>programs (e.g., CAP, Parts Locator, repair cost waiver).</td>
<td>✓ Knowledge of laws and regulations requiring vehicles to be tested at</td>
</tr>
<tr>
<td>✓ Inform customers of Referee referral criteria (e.g., grey market</td>
<td>STAR stations.</td>
</tr>
<tr>
<td>vehicles, engine change, SPCNS).</td>
<td>✓ Knowledge of laws and regulations requiring Test Only stations to</td>
</tr>
<tr>
<td>✓ Explain OBD readiness monitors to customers (e.g., complete,</td>
<td>provide information to customers regarding stations that diagnose and</td>
</tr>
<tr>
<td>incomplete, enabling criteria).</td>
<td>repair vehicles upon inspection failure.</td>
</tr>
<tr>
<td></td>
<td>✓ Knowledge of information to provide customers about OBD readiness</td>
</tr>
<tr>
<td></td>
<td>monitors.</td>
</tr>
<tr>
<td></td>
<td>✓ Knowledge of reasons for performing OBD readiness monitors.</td>
</tr>
<tr>
<td></td>
<td>✓ Knowledge of laws and regulations to inform customers about</td>
</tr>
<tr>
<td></td>
<td>aftermarket parts.</td>
</tr>
<tr>
<td></td>
<td>✓ Knowledge of laws and regulations requiring vehicle to receive</td>
</tr>
<tr>
<td></td>
<td>smog check inspections at specific types of stations (e.g., STAR,</td>
</tr>
<tr>
<td></td>
<td>Referee).</td>
</tr>
</tbody>
</table>
## II. Vehicle Identification (10%)

This area assesses the candidate’s ability to identify the vehicle to be tested.

**TASKS**

- Review vehicle emission control labels or application manuals to determine vehicle emission control requirement specifications (e.g., OBD, CAT, ignition timing).
- Review emission control labels to determine vehicle certification type (e.g., California, Federal, BAR label).
- Verify vehicle registration documents match vehicle information prior to performing smog check inspections (e.g., VIN label, license plate number).
- Review vehicle information to determine type of inspection system to be used (e.g., OIS, BAR-97 EIS).
- Assess vehicle configuration to determine tailpipe emissions test type (e.g., GVWR, AWD, non-disengagable traction control.).

**ASSOCIATED KNOWLEDGE**

- Knowledge of methods and procedures to verify accuracy of vehicle registration documents.
- Knowledge of methods and procedures used to verify vehicle information prior to performing smog check inspections.
- Knowledge of methods and procedures used to identify vehicles that have missing or incorrect emissions control labels.
- Knowledge of information used to determine if vehicles do not conform to California or U.S. EPA emissions certifications (e.g., grey market).
- Knowledge of methods and procedures used to determine type of vehicle certification standards (e.g., California, Federal, BAR label).
- Knowledge of information used to determine emissions control components required.
- Knowledge of methods and resources to identify vehicles that meet ASM test restrictions (e.g., AWD, TCS, GVWR).
- Knowledge of methods and resources to identify vehicles that meet TSI test restrictions (e.g., transmission restriction).
- Knowledge of methods to determine type of inspection systems to be used (e.g., OIS, BAR-97 EIS).

## III. Safety Precautions (7%)

This area assesses the candidate’s ability to identify and determine whether the vehicle presented for testing has any conditions that would render emissions testing problematic and/or unsafe.

**TASKS**

- Assess vehicles for unfit, incompatible, and/or unsafe conditions prior to performing smog check inspection (e.g., fluid leaks).
- Monitor vehicles and equipment during the smog check inspection for conditions that require an aborted smog check inspection (e.g., unsafe, unfit, incompatible).
- Follow safety procedures of vehicle and equipment manufacturers during inspections (e.g., hybrid safety protocols, dynamometer operation).
- Maintain safe inspection area by keeping work area clean and orderly.

**ASSOCIATED KNOWLEDGE**

- Knowledge of methods and procedures used to identify unsafe vehicle conditions (e.g., fluid leaks).
- Knowledge of methods and procedures to determine when smog check inspections need to be aborted or rejected.
- Knowledge of methods and procedures used to operate smog check inspection equipment (e.g., dynamometer, cooling fan, BAR-97 EIS).
- Knowledge of methods and procedures used to ensure inspector safety while operating equipment during smog check inspections.
- Knowledge of methods and procedures used to maintain customer and staff safety in inspection area.
- Knowledge of manufacturer recommended safety protocols (e.g., hybrid vehicles).
IV. Calibration of Test Analyzers and Devices (6%)  

This area assesses the candidate’s ability to interpret and respond to test prompts, maintain or troubleshoot test analyzer system malfunctions and perform required test analyzer service procedures (including dynamometer).

<table>
<thead>
<tr>
<th>TASKS</th>
<th>ASSOCIATED KNOWLEDGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ Perform calibration of emissions testing systems to ensure accurate functioning of systems during smog check inspections (e.g., BAR-97 EIS, LPFET, dynamometer).</td>
<td>✓ Knowledge of procedures used to calibrate LPFET equipment.</td>
</tr>
<tr>
<td>✓ Perform visual inspection of testing system components to verify correct operation during smog check inspections (e.g., RPM pickup, filters).</td>
<td>✓ Knowledge of LPFET upload procedures.</td>
</tr>
<tr>
<td>✓ Perform troubleshooting procedures on the BAR-97 EIS to restore function.</td>
<td>✓ Knowledge of methods and procedures used to troubleshoot LPFET equipment.</td>
</tr>
<tr>
<td>✓ Perform troubleshooting procedures on the LPFET equipment to restore function.</td>
<td>✓ Knowledge of methods and procedures used to verify function of inspection system components (e.g., RPM, probe pickup).</td>
</tr>
<tr>
<td>✓ Perform troubleshooting procedures on the OIS to restore function.</td>
<td>✓ Knowledge of procedures used to calibrate BAR-97 EIS.</td>
</tr>
<tr>
<td></td>
<td>✓ Knowledge of methods and procedures used to troubleshoot BAR-97 EIS sample system calibration failures.</td>
</tr>
<tr>
<td></td>
<td>✓ Knowledge of methods and procedures used to troubleshoot OIS (e.g., DAD).</td>
</tr>
<tr>
<td></td>
<td>✓ Knowledge of methods and procedures used to troubleshoot sample system leak check failures.</td>
</tr>
<tr>
<td></td>
<td>✓ Knowledge of methods and procedures used to replace user serviceable inspection system components (e.g., filters, sample hoses).</td>
</tr>
<tr>
<td></td>
<td>✓ Knowledge of methods and procedures used to verify function of fuel cap test devices.</td>
</tr>
<tr>
<td></td>
<td>✓ Knowledge of methods and procedures used to troubleshoot modem operations.</td>
</tr>
<tr>
<td></td>
<td>✓ Knowledge of methods and procedures used to verify operations of dynamometer.</td>
</tr>
</tbody>
</table>
V. Emissions Test(s) Procedures (13%)

This area assesses the candidate’s ability to use correct procedures to safely test the tailpipe emissions of vehicles subject to Smog Check (includes dynamometer).

<table>
<thead>
<tr>
<th>TASKS</th>
<th>ASSOCIATED KNOWLEDGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ Verify vehicles meet before-test-conditions as required by the Smog Check Manual (e.g., engine at normal operating temperature, tire pressure).</td>
<td>✓ Knowledge of methods and procedures used to determine correct type of BAR-97 EIS tests (e.g., TSI, ASM).</td>
</tr>
<tr>
<td>✓ Attach test equipment to vehicles for inspections (e.g., RPM pickup, OBD).</td>
<td>✓ Knowledge of methods and procedures used to perform OIS tests.</td>
</tr>
<tr>
<td>✓ Enter technician and vehicle information into inspection systems (e.g., BAR-97 EIS, OIS).</td>
<td>✓ Knowledge of methods for diagnosing OBD communication errors.</td>
</tr>
<tr>
<td>✓ Perform pretest smog check inspections on vehicles.</td>
<td>✓ Knowledge of methods and procedures used to prepare vehicles for performing emissions tests (e.g., cooling fan, engine at normal operating temperature).</td>
</tr>
<tr>
<td>✓ Perform TSI test to obtain vehicle emission readings.</td>
<td>✓ Knowledge of methods and procedures used to perform ASM tests.</td>
</tr>
<tr>
<td>✓ Perform ASM test to obtain vehicle emission readings.</td>
<td>✓ Knowledge of vehicle information used to perform ASM tests (e.g., GVWR).</td>
</tr>
<tr>
<td>✓ Perform OIS test to obtain OBD vehicle emission systems data.</td>
<td>✓ Knowledge of methods and procedures used to prevent vehicles from overheating during ASM testing (e.g., cooling fan).</td>
</tr>
<tr>
<td>✓ Evaluate vehicles’ drivetrain for dynamometer compatibility (e.g., traction control, temporary load, GVWR, AWD).</td>
<td>✓ Knowledge of methods and procedures used to perform TSI tests.</td>
</tr>
<tr>
<td>✓ Restrain vehicles onto dynamometer in preparation for ASM testing (e.g., chocks, straps).</td>
<td>✓ Knowledge of procedures used to enter vehicle and inspector information into inspection systems.</td>
</tr>
<tr>
<td>✓ Perform allowable minor repair(s) on vehicles if needed during inspection (e.g., fluid leaks, tighten loose hose clamp).</td>
<td>✓ Knowledge of methods and procedures used to verify weight classification of vehicles.</td>
</tr>
<tr>
<td></td>
<td>✓ Knowledge of devices used by inspection systems to detect engine RPM.</td>
</tr>
<tr>
<td></td>
<td>✓ Knowledge of methods and procedures used to determine vehicle weight (e.g., GVWR, temporary load).</td>
</tr>
<tr>
<td></td>
<td>✓ Knowledge of devices used to sample vehicle exhaust system.</td>
</tr>
<tr>
<td></td>
<td>✓ Knowledge of methods and procedures used to determine placement of vehicles on dynamometer.</td>
</tr>
<tr>
<td></td>
<td>✓ Knowledge of methods and procedures used to weigh vehicles on dynamometer.</td>
</tr>
<tr>
<td></td>
<td>✓ Knowledge of equipment and procedures used to restrain vehicles on dynamometer.</td>
</tr>
<tr>
<td></td>
<td>✓ Knowledge of methods and procedures used to troubleshoot sample systems (e.g., HC hang up, sample dilution, low flow).</td>
</tr>
<tr>
<td></td>
<td>✓ Knowledge of laws and regulations regarding inspection test area requirements (e.g., system location, vehicle location).</td>
</tr>
<tr>
<td></td>
<td>✓ Knowledge of laws and regulations regarding inspection equipment and materials requirements (e.g., timing light, tire pressure gauge, publications).</td>
</tr>
<tr>
<td></td>
<td>✓ Knowledge of laws and regulations for performing allowable minor repairs to vehicles.</td>
</tr>
</tbody>
</table>
VI. Visual Inspection (35%)

This area assesses the candidate’s ability to perform a comprehensive visual inspection by identifying the condition of required emission-related components.

<table>
<thead>
<tr>
<th>TASKS</th>
<th>ASSOCIATED KNOWLEDGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ Perform visual inspection of vehicles to detect presence of liquid fuel leaks.</td>
<td>✓ Knowledge of methods and procedures used to identify and assess vehicle emission components.</td>
</tr>
<tr>
<td>✓ Perform visual inspection of fuel metering systems to assess the condition of the components (e.g., pass, tampered, defective).</td>
<td>✓ Knowledge of laws and regulations regarding identification of CARB approved aftermarket emission control parts.</td>
</tr>
<tr>
<td>✓ Perform visual inspection of EVAP systems to assess the condition of the components (e.g., pass, tampered, defective).</td>
<td>✓ Knowledge of methods and procedures used to identify liquid fuel leaks in accordance with Smog Check Manual.</td>
</tr>
<tr>
<td>✓ Perform visual inspection of forced induction systems to assess the condition of the components (e.g., pass, tampered, defective).</td>
<td>✓ Knowledge of methods and procedures used to identify and assess conditions of forced air induction components (e.g., supercharger, turbocharger).</td>
</tr>
<tr>
<td>✓ Perform visual inspection of EGR systems to assess the condition of the components (e.g., pass, tampered, defective).</td>
<td>✓ Knowledge of methods and procedures used to identify and assess conditions of diesel emission control components.</td>
</tr>
<tr>
<td>✓ Perform visual inspection of SPK systems to assess the condition of the components (e.g., pass, tampered, defective).</td>
<td>✓ Knowledge of methods and procedures used to identify and assess conditions of diesel aftertreatment systems (e.g., DEF, DPF, SCR).</td>
</tr>
<tr>
<td>✓ Perform visual inspection of CAT(s) to assess the condition of the components (e.g., pass, tampered, defective).</td>
<td>✓ Knowledge of methods and procedures used to identify and assess conditions of TAC systems (e.g., pipes, switches, valves, air cleaner).</td>
</tr>
<tr>
<td>✓ Perform visual inspection of AIS systems to assess the condition of the components (e.g., pass, tampered, defective).</td>
<td>✓ Knowledge of methods and procedures used to identify and assess conditions of other vehicle emission control parts.</td>
</tr>
<tr>
<td>✓ Perform visual smoke tests.</td>
<td>✓ Knowledge of methods and procedures used to identify and assess conditions of PCV systems (e.g., required hoses, condition of valves).</td>
</tr>
<tr>
<td>✓ Perform visual inspection of TAC systems to assess the condition of the components (e.g., pass, tampered, defective).</td>
<td>✓ Knowledge of methods and procedures used to identify and assess conditions of EVAP systems (e.g., fuel cap, canister).</td>
</tr>
<tr>
<td>✓ Enter visual inspection results into inspection system.</td>
<td>✓ Knowledge of methods and procedures used to identify and assess conditions of other vehicle emission-related components.</td>
</tr>
</tbody>
</table>

Document vehicle failure on the VIR (e.g., liquid fuel leak, smoke test).

Enter visual inspection results into inspection system.

Identify and assess conditions of EVAP systems (e.g., fuel cap, canister).

Identify and assess conditions of PCV systems (e.g., required hoses, condition of valves).

Identify and assess conditions of EGR systems (e.g., fuel injection, carburetor).
II. Functional Test(s) (10%)

This area assesses the candidate’s ability to use correct procedures for testing the functional operation of emissions-related components.

<table>
<thead>
<tr>
<th>TASKS</th>
<th>ASSOCIATED KNOWLEDGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ Perform functional tests of EGR systems</td>
<td>✓ Knowledge of methods and procedures to verify function of EGR systems.</td>
</tr>
<tr>
<td>✓ Perform functional tests of ignition</td>
<td>✓ Knowledge of vehicles that require an EGR functional test.</td>
</tr>
<tr>
<td>timing following vehicle manufacturer</td>
<td>✓ Knowledge of vehicles that require an ignition timing functional test.</td>
</tr>
<tr>
<td>procedures.</td>
<td>✓ Knowledge of vehicle ignition timing parameters per the Smog Check Manual.</td>
</tr>
<tr>
<td>✓ Perform functional tests of vehicles’</td>
<td>✓ Knowledge of vehicles that require a LPFET test.</td>
</tr>
<tr>
<td>MIL as required by the Smog Check Manual.</td>
<td>✓ Knowledge of methods and procedures to perform a LPFET test.</td>
</tr>
<tr>
<td>✓ Perform LPFET tests on vehicles as</td>
<td>✓ Knowledge of methods and procedures to perform an ignition timing test.</td>
</tr>
<tr>
<td>required by the Smog Check Manual.</td>
<td>✓ Knowledge of vehicles that require a fuel cap functional test.</td>
</tr>
<tr>
<td>✓ Perform fuel cap functional tests as</td>
<td>✓ Knowledge of methods and procedures to perform a fuel cap functional test.</td>
</tr>
<tr>
<td>✓ Perform OBD functional tests as prompted</td>
<td>✓ Knowledge of vehicles that require an OBD functional test.</td>
</tr>
<tr>
<td>by the inspection system.</td>
<td>✓ Knowledge of vehicles that require an MIL functional test.</td>
</tr>
<tr>
<td></td>
<td>✓ Knowledge of methods and procedures to verify function of MIL.</td>
</tr>
<tr>
<td></td>
<td>✓ Knowledge of vehicles that require an MIL functional test.</td>
</tr>
</tbody>
</table>
The following is the examination plan for the **Repair Technician** examination. This information was used by subject matter experts to write examination questions.

1. **Discharge of Customer Responsibilities (10%)**: This area assesses the candidate’s ability to consult with customers about reasons for performing diagnostic testing and obtaining authorization to perform smog system repairs.

**Subarea: Authorizations and Documentation**

<table>
<thead>
<tr>
<th>Task Number</th>
<th>Tasks</th>
<th>Knowledge Number</th>
<th>Associated Knowledge Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Explain to customers the reasons for diagnostic testing or repairs to inform them about the benefits and process.</td>
<td>1</td>
<td>Knowledge of the purpose of diagnostic testing.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>Knowledge of regulations regarding emissions testing and repairs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3</td>
<td>Knowledge of the relationship between vehicle emissions and environmental impacts.</td>
</tr>
<tr>
<td>2</td>
<td>Prepare cost estimates associated with diagnostic testing or repairs to provide customers with advance notice of prices.</td>
<td>4</td>
<td>Knowledge of regulations relating to pricing, cost limits, and estimates.</td>
</tr>
<tr>
<td>3</td>
<td>Obtain customer authorization to provide diagnostic testing or repairs.</td>
<td>5</td>
<td>Knowledge of regulations regarding customer authorizations for services.</td>
</tr>
<tr>
<td>4</td>
<td>Provide customers with itemized invoices to identify work performed and parts supplied.</td>
<td>6</td>
<td>Knowledge of regulations regarding invoicing customers for services provided.</td>
</tr>
</tbody>
</table>

**Subarea: Financial Assistance and Referral for Special Services**

<table>
<thead>
<tr>
<th>Task Number</th>
<th>Tasks</th>
<th>Knowledge Number</th>
<th>Associated Knowledge Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Refer customers to the Smog Check Referee Program to provide them with specialized services.</td>
<td>7</td>
<td>Knowledge of regulations associated with the Smog Check Referee Program.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8</td>
<td>Knowledge of the types of services provided under the Smog Check Referee Program.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9</td>
<td>Knowledge of the requirements associated with repair cost waivers.</td>
</tr>
<tr>
<td>6</td>
<td>Inform customers about the Consumer Assistance Program to provide financial assistance with repair or vehicle retirement.</td>
<td>10</td>
<td>Knowledge of regulations associated with the Consumer Assistance Program.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11</td>
<td>Knowledge of the types of financial assistance options associated with the Consumer Assistance Program.</td>
</tr>
<tr>
<td>7</td>
<td>Review vehicle warranty provisions with customers to inform them that necessary repairs may be covered.</td>
<td>12</td>
<td>Knowledge of regulations regarding vehicle emission system warranties.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>13</td>
<td>Knowledge of the types of repairs covered under vehicle warranties.</td>
</tr>
</tbody>
</table>
2. **Diagnosing Smog Check Failures (60%)**: This area assesses the candidate’s ability to perform diagnostic testing procedures to determine the cause of a vehicle’s smog check inspection failure.

### Subarea: Diagnostic Pre-assessments

<table>
<thead>
<tr>
<th>Task Number</th>
<th>Tasks</th>
<th>Knowledge Number</th>
<th>Associated Knowledge Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Review vehicle inspection report (VIR) to identify causes of smog check failures.</td>
<td>14</td>
<td>Knowledge of methods for analyzing results included on vehicle inspection reports.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15</td>
<td>Knowledge of references used for reviewing results of vehicle inspection reports.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16</td>
<td>Knowledge of the relationship between emissions system components and vehicle emissions failures.</td>
</tr>
<tr>
<td>9</td>
<td>Review information about vehicle condition or prior repairs to assist in diagnosing system issues resulting in smog check failure.</td>
<td>17</td>
<td>Knowledge of the relationship between vehicle condition and smog check failures.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>18</td>
<td>Knowledge of the relationship between vehicle history and smog check failures.</td>
</tr>
<tr>
<td>10</td>
<td>Inspect vehicles to verify smog check failure.</td>
<td>19</td>
<td>Knowledge of methods for verifying smog check failures.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20</td>
<td>Knowledge of signs of mechanical damage that result in smog check failure.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>21</td>
<td>Knowledge of regulations regarding aftermarket parts.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>22</td>
<td>Knowledge of methods for identifying system tampering or modification.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>23</td>
<td>Knowledge of the effects of tampering or modification of vehicle components on smog check failure.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>24</td>
<td>Knowledge of references for verifying CARB-approved aftermarket components.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25</td>
<td>Knowledge of technical references for performing diagnostic tests.</td>
</tr>
</tbody>
</table>

### Subarea: Diagnostic Testing

<table>
<thead>
<tr>
<th>Task Number</th>
<th>Tasks</th>
<th>Knowledge Number</th>
<th>Associated Knowledge Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Perform diagnostic testing of system components to identify the cause of visible smoke test failure.</td>
<td>26</td>
<td>Knowledge of causes of visible smoke test failures.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>27</td>
<td>Knowledge of procedures for diagnosing visible smoke test failures.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>28</td>
<td>Knowledge of the internal engine components related to cylinder compression, valve timing, and variable displacement and their functions.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>29</td>
<td>Knowledge of procedures for diagnosing internal engine components.</td>
</tr>
<tr>
<td>12</td>
<td>Perform diagnostic testing of mechanical systems to identify cause of smog check failure.</td>
<td>30</td>
<td>Knowledge of the components of engine cooling systems and their functions.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>31</td>
<td>Knowledge of procedures for diagnosing engine cooling components.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>32</td>
<td>Knowledge of maintenance requirements regarding fuel, oil viscosity, and coolant.</td>
</tr>
<tr>
<td>13</td>
<td>Perform diagnostic testing of fuel metering systems to identify cause of smog check failure.</td>
<td>33</td>
<td>Knowledge of the components of fuel metering systems and their functions.</td>
</tr>
<tr>
<td>14</td>
<td>Perform diagnostic testing of exhaust gas recirculation systems to identify cause of smog check failure.</td>
<td>35</td>
<td>Knowledge of the function of exhaust gas recirculation systems.</td>
</tr>
<tr>
<td>15</td>
<td>Perform diagnostic testing of computers, sensors, and switches to identify cause of smog check failure.</td>
<td>37</td>
<td>Knowledge of the components of computer inputs and their functions.</td>
</tr>
<tr>
<td>16</td>
<td>Perform diagnostic testing of catalytic converters and exhaust after-treatment systems to identify cause of smog check failure.</td>
<td>39</td>
<td>Knowledge of the components of computer outputs and their functions.</td>
</tr>
<tr>
<td>17</td>
<td>Perform diagnostic testing of ignition systems to identify cause of smog check failure.</td>
<td>41</td>
<td>Knowledge of the components of control modules and their functions.</td>
</tr>
<tr>
<td>18</td>
<td>Perform diagnostic testing of positive crankcase ventilation systems to identify cause of smog check failure.</td>
<td>43</td>
<td>Knowledge of the types of catalytic converters and their functions.</td>
</tr>
<tr>
<td>19</td>
<td>Perform diagnostic testing of air injection systems to identify cause of smog check failure.</td>
<td>44</td>
<td>Knowledge of procedures for diagnosing catalytic converters.</td>
</tr>
<tr>
<td>20</td>
<td></td>
<td>46</td>
<td>Knowledge of procedures for diagnosing diesel after-treatment systems.</td>
</tr>
<tr>
<td>21</td>
<td></td>
<td>47</td>
<td>Knowledge of methods for verifying approved aftermarket catalytic converter installations.</td>
</tr>
<tr>
<td>22</td>
<td></td>
<td>48</td>
<td>Knowledge of the components of ignition systems and their functions.</td>
</tr>
<tr>
<td>23</td>
<td></td>
<td>49</td>
<td>Knowledge of procedures for diagnosing ignition systems.</td>
</tr>
<tr>
<td>24</td>
<td></td>
<td>50</td>
<td>Knowledge of components of crankcase emissions control systems and their functions.</td>
</tr>
<tr>
<td>25</td>
<td></td>
<td>51</td>
<td>Knowledge of procedures for diagnosing crankcase emissions control systems.</td>
</tr>
<tr>
<td>26</td>
<td></td>
<td>52</td>
<td>Knowledge of the components of air injection systems and their functions.</td>
</tr>
<tr>
<td>27</td>
<td></td>
<td>53</td>
<td>Knowledge of procedures for diagnosing air injection systems.</td>
</tr>
<tr>
<td>Task Number</td>
<td>Tasks</td>
<td>Knowledge Number</td>
<td>Associated Knowledge Statements</td>
</tr>
<tr>
<td>-------------</td>
<td>----------------------------------------------------------------------</td>
<td>------------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>20</td>
<td>Perform diagnostic testing of thermostatic air cleaner systems to identify cause of smog check failure.</td>
<td>54</td>
<td>Knowledge of the components of thermostatic air cleaner systems and their functions.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>55</td>
<td>Knowledge of procedures for diagnosing thermostatic air cleaner systems.</td>
</tr>
<tr>
<td>21</td>
<td>Perform diagnostic testing of air induction systems to identify cause of smog check failure.</td>
<td>56</td>
<td>Knowledge of the components of forced induction systems and their functions.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>57</td>
<td>Knowledge of procedures for diagnosing forced induction system components.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>58</td>
<td>Knowledge of the components of naturally aspirated induction systems and their functions.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>59</td>
<td>Knowledge of procedures for diagnosing naturally aspirated induction system components.</td>
</tr>
<tr>
<td>22</td>
<td>Perform diagnostic testing of fuel evaporative emission systems to identify cause of smog check failure.</td>
<td>60</td>
<td>Knowledge of the components of fuel evaporative emission systems and their functions.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>61</td>
<td>Knowledge of procedures for diagnosing fuel evaporative emission system components.</td>
</tr>
<tr>
<td>23</td>
<td>Perform diagnostic testing of other related emissions components to identify cause of smog check failure.</td>
<td>62</td>
<td>Knowledge of other related emissions components and their functions.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>63</td>
<td>Knowledge of procedures for diagnosing other related emissions components.</td>
</tr>
<tr>
<td>24</td>
<td>Perform diagnostic testing of hybrid or alternative fuel systems to identify cause of smog check failure.</td>
<td>64</td>
<td>Knowledge of safety precautions related to working with hybrid or alternative fuel systems.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>65</td>
<td>Knowledge of the components of hybrid systems and their functions.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>66</td>
<td>Knowledge of procedures for diagnosing hybrid vehicle systems.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>67</td>
<td>Knowledge of the components of alternative fuel systems and their functions.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>68</td>
<td>Knowledge of procedures for diagnosing alternative fuel systems.</td>
</tr>
<tr>
<td>Task Number</td>
<td>Tasks</td>
<td>Knowledge Number</td>
<td>Associated Knowledge Statements</td>
</tr>
<tr>
<td>-------------</td>
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<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>25</td>
<td>Evaluate diagnostic test results to determine if a vehicle system failure is affecting the operation of other systems.</td>
<td>69</td>
<td>Knowledge of the effects of emission system failure on other vehicle systems.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>70</td>
<td>Knowledge of methods for interpreting tailpipe emissions readings.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>71</td>
<td>Knowledge of the relationship between vehicle emissions systems.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>72</td>
<td>Knowledge of vehicle network components and their functions.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>73</td>
<td>Knowledge of methods for testing vehicle network systems.</td>
</tr>
<tr>
<td>26</td>
<td>Evaluate diagnostic test results to determine necessary repairs.</td>
<td>74</td>
<td>Knowledge of methods for interpreting diagnostic test results.</td>
</tr>
<tr>
<td>27</td>
<td>Prioritize repairs based on diagnostic testing to restore system operation to manufacturer specification.</td>
<td>75</td>
<td>Knowledge of the relationship between vehicle emissions systems.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>76</td>
<td>Knowledge of the methods for establishing a sequence of repairs.</td>
</tr>
</tbody>
</table>
3. **Repairs (30%)**: This area assesses the candidate's ability to perform repairs on emissions-related components and to verify the effectiveness of the repairs.

<table>
<thead>
<tr>
<th>Task Number</th>
<th>Tasks</th>
<th>Knowledge Number</th>
<th>Associated Knowledge Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>28</td>
<td>Clean out components of vehicle systems to address issues identified by diagnostic testing.</td>
<td>77</td>
<td>Knowledge of procedures for cleaning out components of vehicle systems.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>78</td>
<td>Knowledge of equipment used to clean out components of vehicle systems.</td>
</tr>
<tr>
<td>29</td>
<td>Adjust components of vehicle systems to address issues identified by diagnostic testing.</td>
<td>79</td>
<td>Knowledge of procedures for adjusting components of vehicle systems.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>80</td>
<td>Knowledge of requirements regarding repair procedures recommended by manufacturer or industry standard publications.</td>
</tr>
<tr>
<td>30</td>
<td>Repair components of vehicle systems to restore operation to manufacturer specifications.</td>
<td>80</td>
<td>Knowledge of requirements regarding repair procedures recommended by manufacturer or industry standard publications.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>81</td>
<td>Knowledge of regulations regarding repairing vehicle components according to manufacturer or industry standards.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>82</td>
<td>Knowledge of procedures for repairing vehicle emissions components.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>83</td>
<td>Knowledge of regulations regarding subletting of repairs.</td>
</tr>
<tr>
<td>31</td>
<td>Replace components of vehicle systems to restore operation to manufacturer specifications.</td>
<td>84</td>
<td>Knowledge of procedures for replacing components of vehicle systems.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>85</td>
<td>Knowledge of types of tools and equipment used to replace components of vehicle systems.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>86</td>
<td>Knowledge of requirements for replacement procedures recommended by manufacturer or industry standard publications.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>87</td>
<td>Knowledge of regulations regarding replacing vehicle components according to manufacturer or industry standards.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>88</td>
<td>Knowledge of requirements for replacing catalytic converters and other emissions components.</td>
</tr>
<tr>
<td>32</td>
<td>Test systems operation to verify that repairs were performed correctly.</td>
<td>89</td>
<td>Knowledge of methods for verifying repairs.</td>
</tr>
<tr>
<td>33</td>
<td>Test OBD II system to verify operation following repairs.</td>
<td>90</td>
<td>Knowledge of regulations regarding OBD II configurations.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>91</td>
<td>Knowledge of references for verifying repair of OBD II vehicles.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>92</td>
<td>Knowledge of types of operational modes of OBD II vehicles.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>93</td>
<td>Knowledge of procedures for verifying repairs of OBD II vehicles.</td>
</tr>
</tbody>
</table>
SECTION V: THE EXAMINATION REGISTRATION PROCESS

EXAMINATION REGISTRATION PAYMENT AND SCHEDULING PROCEDURES

Once you have been approved by BAR, you are responsible for contacting PSI to register, pay, and schedule an appointment to take the examination. You may do so via the Internet at www.psiexams.com, or schedule over the telephone at (877) 392-6422.

Current policy allows two test attempts per examination before candidates are required to submit another application to the BAR Licensing Unit. You must wait 14 days between the two test attempts.

EXAMINATION FEE

| Examination Fee | $44.25 |

NOTE: EXAMINATION FEES ARE NOT REFUNDABLE OR TRANSFERABLE. The fee is for each examination, whether you are taking the examination for the first time or repeating.

In most California testing centers, testing does not take place on the following major holidays:

- Independence Day: Closed July 4, 2022
- Labor Day: Closed September 5, 2022
- Thanksgiving Day: Closed November 24-25, 2022
- Christmas Day: Closed December 26-27, 2022
- New Year’s Day: Closed January 1, 2023
- Martin Luther King Jr.: Closed January 16, 2023
- Memorial Day: Closed May 29, 2023

INTERNET SCHEDULING

You may schedule for your test by completing the online Test Registration Form. The Test Registration Form is available at PSI’s website, www.psiexams.com. You may schedule for a test via the Internet 24 hours a day.

1. Complete the registration form online and submit your information to PSI via the Internet.
2. Upon completion of the online registration form, you will be given the available dates for scheduling your test.
3. You will need to choose a date to complete your registration.
4. Upon successful registration, you will receive a traceable confirmation number.

TELEPHONE REGISTRATION AND SCHEDULING

For telephone registration, you will need a valid credit card (VISA, MasterCard, American Express or Discover).

Complete the Examination Registration Form, including your credit card number and expiration date, so that you will be prepared with all of the information needed to register by telephone.

Call PSI registrars at (877) 392-6422, Monday through Friday between 4:30 am and 7:00 pm, or Saturday-Sunday between 6:00 am and 2:30 pm, Pacific Time, to receive the information listed on your Examination Registration Form and to schedule your appointment for the examination. TDD is available at (800) 735-2929.

FAX REGISTRATION AND SCHEDULING

For Fax registration, you will need a valid credit card (VISA, MasterCard, American Express or Discover).

Complete the Examination Registration Form, including your credit card number and expiration date.

Fax the completed form to PSI (702) 932-2666. Fax registrations are accepted 24 hours a day.

If your information is incomplete or incorrect, it will be returned for correction.

Please allow 4 business days to process your Registration. After 4 business days, you may schedule your examination using a touch-tone phone, by calling PSI 24 hours a day at (877) 392-6422. Otherwise, PSI registrars are available Monday through Friday between 4:30 am and 7:00 pm, and Saturday-Sunday between 6:00 am and 2:30 pm, Pacific Time. You may also schedule online by accessing PSI’s registration website at www.psiexams.com.

STANDARD MAIL REGISTRATION AND SCHEDULING

A PSI Examination Registration Form is provided at the end of this bulletin for candidates who wish to register and pay by mail. Payment of fees may be made by credit card, money order, company check or cashier’s check. Money orders or checks should be made payable to PSI. Print your ID number on your cashier’s check or money order to ensure that your fees are properly assigned. CASH AND PERSONAL CHECKS ARE NOT ACCEPTED.

Mail the completed form and payment to:

PSI licensure:certification
ATTN: Examination Registration CA BAR
3210 E Tropicana
Las Vegas, NV 89121
(877) 392-6422 • Fax (702) 932-2666

Please allow 2 weeks to process your Registration. After 2 weeks, call PSI at (877) 392-6422, Monday through Friday between 4:30 am and 7:00 pm, or Saturday-Sunday between 6:00 am and 2:30 pm, Pacific Time. You may also schedule online by accessing PSI’s registration website at www.psiexams.com.
CANCELING AN EXAMINATION APPOINTMENT

You may cancel and reschedule an examination appointment without forfeiting your fee if your cancellation notice is received forty-eight (48) hours prior to the scheduled examination date. For example, for a 9:00 a.m. Monday appointment, the cancellation notice would need to be received before 9:00 a.m. on the previous Saturday. You may call PSI at (877) 392-6422.

Note: A voice mail or email message is not an acceptable form of cancellation. Please use the PSI Website or call PSI and speak directly to a Customer Service Representative.

MISSED APPOINTMENT OR LATE CANCELLATION

If you miss your appointment, you will not be able to take the examination as scheduled, further you will forfeit your examination fee, if:

- You do not cancel your appointment 48 hours before the scheduled examination date;
- You do not appear for your examination appointment;
- You arrive after examination start time;
- You do not present proper identification when you arrive for the examination.

EXAMINATION SITE CLOSING FOR AN EMERGENCY

In the event that severe weather or another emergency forces the closure of an examination site on a scheduled examination date, your examination will be rescheduled. PSI personnel will attempt to contact you in this situation. However, you may check the status of your examination schedule by calling (877) 392-6422. Every effort will be made to reschedule your examination at a convenient time as soon as possible. You will not be penalized. You will be rescheduled at no additional charge.

EXAMINATION SITE LOCATIONS

The California examinations are administered at the PSI examination centers in California as listed below:

AGOURA HILLS
30851 AGOURA RD SUITE 302
AGOURA HILLS, CA 91301
(818) 851-9266


ATASCADERO
7305 MORRO RD, SUITE 201A
ATASCADERO, CA 93422
(805) 538-5053

FROM US-101 N, TAKE THE CA-41 EXIT (EXIT 219) TOWARD MORRO RD. TURN LEFT ONTO EL CAMINO REAL. TURN LEFT ONTO CA-41/MORRO RD.
FROM US-101 S, TAKE THE MORRO RD/CA-41 EXIT (EXIT 219), TURN RIGHT ONTO CA-41/MORRO RD.

BAKERSFIELD
5405 STOCKDALE HIGHWAY
SUITE 103
BAKERSFIELD, CA 93309
(661) 735-5351

FROM INTERSTATE 5-SOUTH, TAKE THE STOCKDALE HIGHWAY EXIT (EXIT 253). TURN RIGHT ONTO STOCKDALE HIGHWAY. END AT 5405 STOCKDALE HIGHWAY.

CARSON
17420 S AVON BLVD, SUITE 205
CARSON, CA 90746
(310) 400-7393

FROM CA-91 E/GARDENA FWY TAKE THE AVALON EXIT. OFF RAMP WILL LEAD YOU ONTO ALBERTONI ST. MAKE A RIGHT ONTO AVON BLVD AND WE ARE LOCATED ON THE RIGHT HANDSIDE (SAME PARKING LOT AS CARL’S JR).

FROM CA-91 W TAKE THE AVALON EXIT. MAKE A LEFT ONTO AVON BLVD. MAKE A U-TURN ON AVON BLVD AND ALBERTONI ST. WE ARE LOCATED ON THE RIGHT-HAND SIDE. (SAME PARKING LOT AS CARL’S JR).

DIAMOND BAR
21660 EAST COLEY DR SUITE 260
DIAMOND BAR, CA 91765
(909) 860-8158

FROM I-10 E, TAKE THE GRAND AVE EXIT (EXIT 38A). TURN RIGHT ONTO S GRAND AVE. TURN RIGHT ONTO GOLDEN SPRINGS DR. TURN LEFT ONTO COLEY DR.
FROM 60 WEST, TAKE GRAND AVE EXIT (EXIT 248). TURN LEFT ONTO GRAND AVE. TURN RIGHT ONTO GOLDEN SPRINGS DR. TURN LEFT ONTO COLEY DR. 21660 COLEY DR, STE 260 IS ON THE LEFT.

EL MONTE - SANTA FE SPRINGS
10330 PIONEER BOULEVARD, SUITE 285
SANTA FE SPRINGS, CA 90670
(562) 325-8113

FROM THE I-5 NORTH TAKE NORWALK BLVD (EXIT 121), TURN RIGHT ONTO NORWALK BLVD. TURN LEFT ONTO IMPERIAL HWY/CA-90. TURN RIGHT ONTO PIONEER BLVD, TESTING CENTER WILL BE ON YOUR RIGHT.

FRESNO
351 E. BARSTOW AVE, SUITE 101
FRESNO, CA 93710
(559) 538-3575

FROM CA-41 S, TAKE THE BULLARD AVE EXIT. TURN LEFT ONTO E BULLARD AVE. TURN RIGHT ONTO N FRESNO ST. PASS THROUGH THE INTERSECTION OF FRESNO AND BASTOW AVE. TAKE THE FIRST DRIVEWAY ON THE RIGHT-HAND SIDE.

FROM CA-41 N, TAKE THE SHAW AVE EXIT TOWARD CLOVIS. TURN RIGHT ONTO E SHAW AVE. TURN LEFT ONTO N FRESNO ST. TURN LEFT INTO THE LAST DRIVEWAY BEFORE BARSTOW AVE. TESTING CENTER IS IN THE OFFICE COMPLEX ON THE SW CORNER OF BARSTOW AND FRESNO ST.

IRVINE
8 CORPORATE PARK, SUITE 200
IRVINE, CA 92606
(949) 418-9653

FROM I-405 S - USE THE 2ND LANE FROM RIGHT TO TAKE EXIT 7 FOR JAMBOREE RD, THEN USE THE LEFT 2 LANES TO TURN LEFT ONTO JAMBOREE RD. GO ABOUT 1.5 MILES THEN TURN RIGHT ONTO BECKMAN AVE. TAKE THE FIRST RIGHT ONTO CORPORATE PARK. 8 CORPORATE PARK IS THE SECOND BUILDING ON THE RIGHT.
FROM I-5 S - TAKE EXIT 100 FOR JAMBOREE RD. USE THE 2ND FROM RIGHT LANE TO TURN RIGHT ONTO JAMBOREE RD. TAKE THE RAMP TO JAMBOREE RD THEN KEEP LEFT AT THE FORK TO CONTINUE ONTO JAMBOREE RD. GO ABOUT 2.2 MILES THEN TURN LEFT ONTO BECKMAN AVE. TAKE THE FIRST RIGHT ONTO CORPORATE PARK. 8 CORPORATE PARK IS THE SECOND BUILDING ON THE RIGHT.

ONCE PARKED, PROCEED THROUGH THE FRONT ENTRANCE AND TAKE THE ELEVATOR TO THE SECOND FLOOR. THE TEST CENTER IS IN SUITE 200.

LAWNDALE
THE BAYTOWER CORPORATE CENTER
15901 HAWTHORNE BLVD, SUITE 330
LAWNDALE, CA 90260
310-504-0004

REDDING
2861 CHURN CREEK, UNIT C
REDDING, CA 96002
(530) 319-3615
FROM I-5 S, TAKE THE CYPRESS AVENUE EXIT (677). TURN RIGHT ONTO E. CYPRESS AVE. TURN RIGHT ON CHURN CREEK RD.
FROM I-5 N TOWARDS SACRAMENTO, TAKE THE CYPRESS AVENUE EXIT (677). TURN LEFT ONTO E. CYPRESS AVE. TURN RIGHT ONTO CHURN CREEK RD.
FROM 299 E TOWARDS REDDING, START GOING WEST ON CA-299. MERGE ONTO I-5 S RAMP ON THE LEFT TOWARDS SACRAMENTO. TAKE THE CYPRESS AVE EXIT (677). TURN LEFT ONTO E. CYPRESS AVE. TURN RIGHT ONTO CHURN CREEK RD.

RIVERSIDE
7888 MISSION GROVE PARKWAY S., SUITE 130
RIVERSIDE, CA 92508
(951) 565-8037
FROM THE CA-91W TOWARD RIVERSIDE/BEAUTIFUL CITIES, TAKE THE CENTRAL AVENUE EXIT TOWARD MAGNOLIA CENTER. TURN LEFT ONTO CENTRAL AVE. CENTRAL AVE BECOMES ALESSANDRO BLVD. VEEER TO THE RIGHT, THEN STAY STRAIGHT TO GO ONTO TRAUTWEIN RD (YOU WILL PASS COMMUNICATION CENTER DR). TURN LEFT ON MISSION GROVE PKWY W.

FROM THE HIGH DESERT/SAN BERNARDINO AREA 215 S, WHERE THE 60 FWY, 91 FWY, AND THE 215 FWY SPLIT, TAKE 2155 S (SIGNS FOR THE 60 EAST INDIO). TAKE EXIT 27C FOR ALESSANDRO BLVD. TURN RIGHT ONTO E ALESSANDRO BLVD, TURN LEFT ONTO MISSION GROVE PKWY S.

SACRAMENTO
8950 CAL CENTER DR, SUITE 158
BUILDING TWO
SACRAMENTO, CA 95826
(916) 476-5926
FROM US-50 E: USE THE RIGHT TWO LANES TO TAKE EXIT 11 FOR WATT AVE. USE THE RIGHT 2 LANES TO TURN RIGHT ONTO WATT AVE. USE THE LEFT LANE TO TURN LEFT AT THE FIRST CROSS STREET ONTO FOLSOM BLVD. USE THE LEFT TWO LANES TO TURN LEFT ONTO MANLOVE RD. TURN LEFT ONTO CAL CENTER DR. BUILDING 8950 WILL BE ON THE LEFT.

FROM US-50 W: USE THE RIGHT TWO LANES TO TAKE EXIT 11 FOR WATT AVE. USE THE LEFT 2 LANES TO TURN LEFT ONTO WATT AVE. USE THE LEFT LANE TO TURN LEFT AT THE FIRST CROSS STREET ONTO FOLSOM BLVD. USE THE LEFT TWO LANES TO TURN LEFT ONTO MANLOVE RD. TURN LEFT ONTO CAL CENTER DR. BUILDING 8950 WILL BE ON THE LEFT.

MANLOVE RD. TURN LEFT ONTO CAL CENTER DR. BUILDING 8950 WILL BE ON THE LEFT.

SAN DIEGO
5440 MOREHOUSE DRIVE, SUITE 3100
SAN DIEGO, CA 92121
(858) 550-5940
FROM I-180 S, TAKE THE SORRENTO VALLEY RD/MIRA MESA BLVD EXIT. TURN LEFT ONTO MIRA MESA BLVD, TURN LEFT ONTO SCARON ROAD. TURN RIGHT ONTO MOREHOUSE DRIVE. FROM I-805 N TOWARD LOS ANGELES, TAKE THE MIRA MESA BLVD/VISTA SORRENTO PKWY EXIT. TURN RIGHT ONTO MIRA MESA BLVD. TURN LEFT ONTO SCARON RD. TURN RIGHT ONTO MOREHOUSE DR.

ADDITIONAL PARKING CAN BE FOUND (ON TOP OF THE AT&T BUILDING) BY CONTINUING ON MOREHOUSE PAST OUR BUILDING AND TURNING LEFT AT THE NEXT DRIVeway UP THE HILL.

SAN FRANCISCO
150 EXECUTIVE PARK BLVD., STE 2400
SAN FRANCISCO, CA 94134
(415) 791-3713


SANTA ROSA
160 WIKIUP DRIVE, SUITE 105
SANTA ROSA, CA 95403
(707) 791-3713
FROM US-101 N, TAKE MARK WEST SPRINGS/RIVER ROAD EXIT. TURN RIGHT ON MARK WEST SPRINGS. TURN LEFT AT OLD REDWOOD HIGHWAY. TURN RIGHT ON WIKIUP DRIVE. FIRST DRIVeway ON RIGHT.

FROM US-101 S, TAKE MARK WEST SPRINGS/RIVER ROAD EXIT. TURN LEFT ON MARK WEST SPRINGS. TURN LEFT AT OLD REDWOOD HIGHWAY. TURN RIGHT ON WIKIUP DRIVE. FIRST DRIVeway ON RIGHT.

UNION CITY
32960 ALVARADO-NILES RD, SUITE 650
UNION CITY, CA 94587
(510) 460-3343

VENTURA
4245 MARKET ST, SUITE 208
VENTURA, CA 93003
(805) 650-5220
FROM US-101N, TAKE THE TELEPHONE ROAD (EXIT 65). TURN LEFT ONTO TELEPHONE ROAD. TURN RIGHT ON MARKET STREET.
On the day of the examination, you should arrive at least 30 minutes prior to your scheduled appointment time. This allows time for sign-in and identification verification and provides time to familiarize yourself with the examination process. If you arrive late, you may not be admitted to the examination site and you will forfeit your examination registration fee.

**REQUIRED IDENTIFICATION AT EXAMINATION SITE**

You must provide 2 forms of identification. Both forms of identification must bear the candidate’s signature and one must be a valid government issued identification document bearing a photograph of the applicant. Examples of acceptable forms of photo identification are:

- A valid unexpired Driver License with a photo.
- A valid unexpired Department of Motor Vehicles Identification Card with a photo.
- An unexpired military-issued identification card.
- An unexpired passport (booklet or card).

All identification provided must match the name on the license application submitted to BAR. PSI keeps the applicant’s driver’s license locked up until the examination is completed.

**CALIFORNIA EXAMINATION SECURITY LAW**

Section 123 of the California Business and Professions Code states: “It is a misdemeanor for any person to engage in any conduct which subverts or attempts to subvert any licensing examination or the administration of an examination, including, but not limited to:

- Conduct which violates the security of the examination materials;
- Removing from the examination room any examination materials without authorization;
- The unauthorized reproduction by any means of any portion of the actual licensing examination;
- Aiding by any means the unauthorized reproduction of any portion of the licensing examination;
- Paying or using professional or paid examination-takers for the purpose of reconstructing any portion of the licensing examination;
- Obtaining examination questions or other examination material, except by specific authorization either before, during, or after an examination; or
- Selling, distributing, buying, receiving, or having unauthorized possession of any portion of a future, current, or previously administered licensing examination.
- Communicating with any other examinee during the administration of a licensing examination.
- Copying answers from another examinee or permitting one’s answers to be copied by another examinee.
- Having in one’s possession during the administration of the licensing examination any books, equipment, notes, written or printed materials, or data of any kind, other than the examination materials distributed, or otherwise authorized to be in one’s possession during the examination.
- Impersonating any examinee or having an impersonator take the licensing examination on one’s behalf.

Nothing in this section shall preclude prosecution under authority provided for in any other provision of law. In addition to any other penalties, a person found guilty of violating this section, shall be liable for the actual damages sustained by the agency administering the examination not to exceed ten thousand dollars ($10,000) and the costs of litigation."

**IMPORTANT INFORMATION ABOUT TAKING AN EXAMINATION**

1. All candidates will have their thumbprint taken during examination check-in. The thumb print must be matched after candidates return from a restroom break and any time the candidate leaves and returns to the test site after check-in.

2. The temperature in the testing room is maintained at a moderate level. Candidates are advised to layer clothing. Acceptable layered clothing includes lightweight shirts, sweaters, and pullovers without pockets or hoods. These items must be worn upon check-in, while you wait to enter the testing room, and during your initial seating for the examination. If the layered item is removed during the examination, you will be required to store it in the lobby while time continues to count down on your examination. Outerwear (coats, heavy jackets, vests, shawls, scarves, etc.) is not allowed in the testing rooms.

3. There are timing mechanisms available in the testing room and on the computer console to help candidates keep track of time during the test administration. Candidates are not permitted to bring watches or other timekeeping devices into the testing rooms.

4. Only one candidate will be allowed to take a restroom break at a time. Candidates are required to sign out when leaving and returning to the testing room. If a candidate’s restroom break takes longer than 5 (five) minutes, a proctor will check on the candidate and will notify the applicable regulatory entity of the occurrence. The regulatory entity will investigate and take appropriate action.
5. The following is a non-exhaustive list of personal items that are not permitted in the testing rooms:

<table>
<thead>
<tr>
<th>Purses</th>
<th>Briefcases/daypacks/luggage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cellular phones</td>
<td>Pagers</td>
</tr>
<tr>
<td>Drinks (including water)</td>
<td>Food/candy/snacks/gum</td>
</tr>
<tr>
<td>Good luck items</td>
<td>Luggage</td>
</tr>
<tr>
<td>Calculators</td>
<td>Reading materials</td>
</tr>
<tr>
<td>Textbooks</td>
<td>Notes</td>
</tr>
<tr>
<td>Any recording device</td>
<td>Smart devices</td>
</tr>
<tr>
<td>Electronic devices</td>
<td>Headphones or earbuds</td>
</tr>
<tr>
<td>Personal pens or pencils</td>
<td>Therapeutic items</td>
</tr>
<tr>
<td>Cameras</td>
<td>Over-the-counter medication</td>
</tr>
<tr>
<td>Weapons</td>
<td>Fashion scarves</td>
</tr>
<tr>
<td>Hats/baseball caps/visors*</td>
<td>Sunglasses**</td>
</tr>
<tr>
<td>Bulky, large or noisy jewelry***</td>
<td>Prescription drugs****</td>
</tr>
</tbody>
</table>

*Headwear worn for religious purposes is subject to inspection.
**Prescription and non-prescription eyeglasses may not be worn for the photo. Eyeglasses subject to inspection.
***Jewelry that is allowed into the examination room is subject to inspection.
****Drugs that are medically necessary during the pendency of the examination may be brought into the examination site, in a container bearing a proper prescription label with the name of the candidate and of the drug; any such medication is subject to examination by a proctor upon check-in.

Examination proctors will have considerable discretion to refuse permission of clothing and/or items that compromise the integrity or security of the examination.

During the check-in process, all candidates will be asked if they possess any of the prohibited items and all candidates will be asked to empty their pockets. If prohibited items are found during check-in, candidates must return these items to their vehicle or other place of safekeeping. Neither PSI nor the Department of Consumer Affairs will be responsible for the items. Any candidate possessing prohibited items in the testing room will have his or her examination results invalidated, and PSI will notify the appropriate regulatory entity of the occurrence.

6. Shoes must be worn at all times and feet are not permitted on the chairs. Feet must remain on the floor during examinations.

7. Copying any portion of the examination content by any means or communicating examination content for the purpose of aiding its unauthorized reproduction, whether before, during, or after the examination, is a violation of PSI security policy and existing law. Either one may result in the disqualification or invalidation of examination results, the denial of your license, and may result in criminal prosecution.

8. If a candidate is asked by a proctor to step into the lobby during your examination, the proctor will suspend the candidate’s examination, so all remaining test time will be retained.

Only candidates, and those individuals with prior regulatory entity approval, are allowed to be present in the testing sites.

If candidates require that an exception be made to ANY of the abovementioned security procedures, candidates must contact their regulatory entity PRIOR to the date of their examination. The regulatory entity must provide the exception to PSI. NO EXCEPTIONS WILL BE MADE ON THE DAY OF THE EXAMINATION.

### SPECIAL TESTING CONSIDERATIONS

#### AMERICANS WITH DISABILITIES ACT (ADA)

Candidates with a physical or mental impairment that substantially limits a major life activity may be eligible for accommodation in the testing process to assure you that the examination accurately reflects knowledge, skills, or abilities. BAR and PSI are fully compliant with ADA guidelines and will provide reasonable accommodations as required by the law. Scheduling services are also available via our Telecommunications Device for the Deaf (TDD) by calling 800-790-3926.

#### ACCOMMODATION PROCEDURES

Candidates requiring special testing arrangements due to a physical or mental impairment must submit a request to BAR for such arrangements at the time of application. Please see Page 8, Special Accommodations Available for details.

### TAKING THE EXAMINATION BY COMPUTER

The examination will be administered via computer. You will be using a mouse and computer keyboard.

#### IDENTIFICATION SCREEN

You will be directed to a semiprivate testing station to take the examination. When you are seated at the testing station, you will be prompted to confirm your name, identification number, and the examination for which you are registered.

#### TUTORIAL

Before you start your examination, an introductory tutorial is provided on the computer screen. The time you spend on this tutorial, up to 15 minutes, DOES NOT count as part of your examination time. Sample questions are included following the tutorial so that you may practice answering questions and reviewing your answers.

#### TEST QUESTION SCREEN

The “function bar” at the top of the sample question provides mouse-click access to the features available while taking the examination.
One question appears on the screen at a time. During the examination, minutes remaining will be displayed at the top of the screen and updated as you record your answers.

TIPS FOR PREPARING FOR YOUR EXAMINATION

The following suggestions will help you prepare for your examination.

- Planned preparation increases your likelihood of passing.
- Start with a current copy of this Candidate Information Bulletin and use the examination content outline as the basis of your study.
- Read study materials that cover all the topics in the content outline.
- Take notes on what you study. Putting information in writing helps you commit it to memory, and it is also an excellent business practice. Underline or highlight key ideas that will help with a later review.
- Discuss new terms or concepts as frequently as you can with colleagues. This will test your understanding and reinforce ideas.
- Your studies will be most effective if you study frequently, for periods of about 45 to 60 minutes. Concentration tends to wander when you study for longer periods of time.
SECTION VI: LICENSING EXAMINATIONS

LICENSING EXAMINATIONS

<table>
<thead>
<tr>
<th>Examination</th>
<th>Length of Time</th>
<th># of Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspector</td>
<td>2.5 Hours</td>
<td>110</td>
</tr>
<tr>
<td>Repair Technician</td>
<td>3 Hours</td>
<td>120</td>
</tr>
</tbody>
</table>

Actual number of questions and passing score may vary, depending on the actual exam version. Check the latest BAR publications for the latest information.

SAMPLE OF MULTIPLE-CHOICE EXAMINATION QUESTIONS

Multiple-choice questions are used throughout the examination(s). These are questions in which four answers are provided, only one of which is correct.

Examination candidates should carefully read the following:

- For each multiple-choice question, you may select only one answer.
- There is no penalty for guessing. Scores are based on the number of overall correct answers. It is to your advantage to answer as many questions as you can.
- Some questions will require you to use provided reference materials to determine the correct answer.
- Suggestions for taking multiple-choice examinations:
  - Your first answer is often your best answer. Don’t spend too much time on any one question.
  - If more than one answer seems to be correct, choose the answer that seems correct most often.

SAMPLE EXAMINATION QUESTIONS

1. While performing a visual inspection, an Inspector observes there is no EGR amplifier, even though one is shown on the underhood emission label. The EGR valve is connected to ported vacuum. What EIS analyzer entry should be made?
   - A. Missing
   - B. Disconnected
   - C. Pass
   - D. Defective

2. Which of the following actions should be taken if a vehicle’s timing reads 5 degrees BTDC and the specification for the vehicle is 8 degrees BTDC?
   - A. Adjust timing to specification and perform a second after-repairs test.
   - B. Enter “fail” into the analyzer for ignition timing because it is out of specification range.
   - C. Enter “pass” into the analyzer for ignition timing and 5 degrees BTDC for the timing reading.
   - D. Enter “not applicable” for the ignition timing and specification.

3. Which of the following is a primary purpose of the Smog Check Referee?
   - A. Perform initial smog inspections.
   - B. Analyze data from test analyzers.
   - C. Perform inspection dispute resolutions.
   - D. Perform disputed smog-related repairs.

4. What action should be taken when a 23-month-old car with 22,200 miles on its odometer fails an emissions inspection because of a failed emission component?
   - A. Send the vehicle to a Referee as a pattern failure.
   - B. Refer the customer go to a dealer for the repair.
   - C. Retest and issue a certification and exemption.
   - D. Issue a certificate of non-compliance.

5. Which of the following statements describes the difference between a three-wire oxygen sensor and a single-wire oxygen sensor?
   - A. A three-wire is more accurate.
   - B. A single-wire is more durable.
   - C. A single-wire sends information slower.
   - D. A three-wire allows earlier closed-loop operation

6. Use the following exhibit to answer this question.

![FUEL INJECTOR PATTERN](image)

At what point in this scope pattern would the fuel injector be open?

- A. 1
- B. 2
- C. 3
- D. 4

(Correct answers to these questions can be found on the next page.)
SECTION VII: AFTER THE EXAMINATION IS OVER

EXAMINATION RESULTS

At the end of your test, you will receive a printed Score Report. The report indicates whether you passed or failed the examination.

For candidates who fail the examination, the Score Report also identifies the number of questions answered correctly, the minimum passing score, and the scores for each of the sections of the examination. The scores for each of the sections are provided to give you more details about your performance on the examination. You may refer to the examination plans in Section IV of this handbook for the specific knowledge, skills and abilities needed for each section. Only correctly answered questions count toward your examination score.

Periodically, there may be a delay in providing results due to the Bureau performing a quality assurance assessment on the examination items. Once this assessment has been completed during one of these periodic reviews, release of examination results should resume as scheduled. Whenever the Bureau conducts a quality assurance assessment, the Bureau posts this information on its website.

CONFIDENTIALITY OF EXAMINATION RESULTS

Examination results are the property of the person who took the examination and will not be released to anyone else without the written permission of the candidate.

DUPLICATE SCORE REPORTS

You may request a duplicate score report after your examination by emailing scorereport@psionline.com or by calling 800-733-9267.

RETTAKING AN EXAMINATION

Once you have received your Examination Eligibility Notice, you will be allowed two attempts to pass the examination. If you do not pass your first examination, you may schedule a second examination appointment. BAR requires 14 days between examination attempts.

It is not possible to make a new examination appointment on the same day you have taken an examination; this is due to processing and reporting scores. A candidate who tests unsuccessfully on a Wednesday can call the next day, Thursday, to schedule another test. In order to retest, you must re-register following the steps for registration and scheduling as outlined earlier. You may re-register over the Internet, telephone, fax or by mail. Once registered, you can schedule your re-examination.

If you do not pass the examination in two attempts, you must submit a new application, with a $20.00 application fee, to:

Department of Consumer Affairs
Bureau of Automotive Repair
Licensing Unit
P.O. Box 989001
West Sacramento, CA 95798-9001

If you wish to send your application and fee by an express carrier, send to:

Department of Consumer Affairs
Bureau of Automotive Repair
Licensing Unit
10949 N. Mather Blvd.
Rancho Cordova, CA 95670

You must wait at least 14 days between examination attempts. You will be charged a fee of $44.25 each time you take the examination.

Answers to sample examination questions
1:A; 2:C; 3:C; 4:B; 5:D; 6:A
SECTION VIII: OBTAINING A LICENSE

After passing the examination, your record is sent back to BAR to review for enforcement actions, as well as family support or tax actions before a license may be issued. If there are no administrative, tax, or family support holds on your license, your results will be updated into the BAR Vehicle Information Database (VID) within five business days of your examination. You must contact your local BAR field office for instructions on how to obtain an access code.

**No additional fees are collected before the license is issued.**

A person may not perform the duties of a Licensed Inspector or Repair Technician without a current license. The Inspector and Repair Technician license shall expire two years from the last day of the month in which the license was issued, unless renewed, suspended, rescinded, or terminated by operation of law. This process is fully explained in California Code of Regulations, Title 16, Section 3340.29 (e).

Before BAR can issue an Inspector or Repair Technician license to you, BAR must have information required by Sections 44014 and 44031.5 of the Health and Safety Code. The Chief of the bureau is responsible for maintaining the information you provide. The information may be transferred to other government agencies if the agencies need it to perform their legal duties. You have a right to review the records maintained on you by this bureau, unless the records are identified as confidential information and exempted in Section 1798.3 of the Information Practices Act.

**Disclosure of your Social Security number to BAR is mandatory.**

Section 30 of the Business and Professions Code and Pub. L. 94-455 [42 w. 405(c)(2)]) authorizes collection of your Social Security number. Your Social Security number will be used exclusively for tax enforcement purposes and for purposes of compliance with any judgment or order for family support in accordance with section 11350.6 of the Welfare and Institutions Code. If you fail to provide your Social Security number, you will be reported to the Franchise Tax Board, which may assess a $100 penalty against you.
Before you begin... Read the Candidate Information Bulletin before filling out this registration form. You must provide all information requested and submit the appropriate fee. PLEASE TYPE OR PRINT LEGIBLY. Registration forms that are incomplete, illegible, or not accompanied by the proper fee will be returned unprocessed. Registration fees are not refundable.

1. Legal Name: ____________________________________________________________ (Jr/III) ______________________________________________________________
   Last Name: __________________________________________________________________________
   First Name: __________________________________________________________________________
   Middle Name: ________________________________________________________________________

2. Candidate ID: _____________________________________________________________

3. Mailing Address: __________________________________________________________________
   Number, Street: _____________________________________________________________________
   Apt/Ste: ____________________________________________________________________________
   City: _______________________________________________________________________________
   State: ______________________________________________________________________________
   Zip Code: ___________________________________________________________________________


5. Email: ____________________ _________________ ________________ _______________

6. Examination: (Check one)  □ Smog Check Inspector $44.25  □ Smog Check Repair Technician $44.25
   (Check one)  □ FIRST TIME  □ RETAKE

7. Total Fee $__________  Pay by credit card, money order, company check or cashier’s check (made payable to PSI).
   If you are paying by credit card, check one:  □ VISA □ MasterCard □ American Express □ Discover
   Card No: __________________________________________________________ Exp. Date: ________________

   Card Verification No: ________________  The card verification number may be located on the back of the card (the last
   three digits on the signature strip) or on the front of the card (four digits to the right and above the card account number).
   Billing Street Address: ____________________________________________ Billing Zip Code: ________________
   Cardholder Name (Print): ________________________________________ Signature: __________________________

8. Affidavit: I certify that the information provided on this registration form (and/or telephonically to PSI) is correct. I understand that any falsification of information may result in denial of registration. I have read and understand the candidate information bulletin.

   Signature: ___________________________ Date: _____________________________

   When you have finished this form in its entirety, please mail the form, along with the appropriate fees, to the address below.

   PSI licensure: certification * ATTN: Examination Registration CA BAR
   3210 E Tropicana * Las Vegas, NV * 89121
   Fax (702) 932-2666 * (877) 392-6422 * TTY (800) 735-2929