Welcome to the Nevada Department of Motor Vehicles (DMV)

DMV 1G Inspector Class

Housekeeping Items:
- Restrooms
- Smoking area
- Snack machine
- Classroom Etiquette

Emission 1G Inspector Class Goals

Rules, Regulations, and Procedures
Why is this Program in Force?
- Clean Air Act
- Federal Highway Funds

CFR, CAA, NRS, NAC, SIP
What are These?
- http://leg.statenv.us/law1.cfm

Classes and Ratings of Inspectors
- Class 1 Test Only
- Class 2 Test and Repair
- G Rating Gasoline
What steps are required to become an Authorized Class 1G Inspector?

Prerequisites:
1. Outside Training
2. Rules and Regulations Class
3. Written Exam
4. Practical Exam Checklist

Required Documentation & Fees

- NAC 445B.497 - Requirements for renewal of license
- NAC 445B.493 - Grounds for denial, suspension or revocation

Steps Required to:

- Renew a 1G License
- NAC 445B.493 - Requirements for renewal of license
- Change a Place of Employment
Authorized 1G Inspection Station Responsibilities

- NAC 445B.480 - Business Hours
- NAC 445B.470 - Display of Information
- NAC 445B.480 - License Requirements

Authorized Fleet Inspection Station Responsibilities

- NAC 445B.480 to NAC 445B.730 and NAC 445B.470 - Fleet Station Licensing, Powers and Duties

Inspector Responsibilities

- NAC 445B.480
- NAC 445B.480
- NAC 445B.480
- NAC 445B.480
- NAC 445B.480
Covert Audits
- NAC 445B.7015
- NAC 445B.7025
- NAC 445B.7035

Inspectors
- Penalties
- Administrative Fines
- NAC 445B.7045
**Non-Covert Related Fines**

- Inspectors
  - Administrative Fines
  - NAC 445B.727

- Station Owners
  - Administrative Fines
  - Civil Penalties
  - NAC 445B.7045

**Covert Fines and Penalties**

- Inspectors
  - Administrative Fines
- Station Owners
  - Administrative Fines
  - Civil Penalties
  - NAC 445B.7045

**Fine Matrix**

<table>
<thead>
<tr>
<th>Covert Inspector</th>
<th>Station/Owner</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>C&amp;D order and attend DMV conducted course</td>
</tr>
<tr>
<td>Second</td>
<td>$250.00 fine + DMV approved course at DMV approved provider + 10-day suspension</td>
</tr>
<tr>
<td>Third</td>
<td>$500.00 fine + 90-day suspension</td>
</tr>
<tr>
<td>Fourth</td>
<td>Permanent Revocation</td>
</tr>
</tbody>
</table>

Non-Covert Inspector

| First | $100 - $500 |
| Second | $500 - $1,000 |
| Third | $1,000 - $1,500 |
| Fourth | $1,500 - $2,500 |

Willful, intentional, or violations involving fraud, are subject to more immediate and serious consequences as allowed by law.

When a C&D is issued in lieu of a fine, it still counts as a first violation.
Vehicles Requiring an Emission Test

- Change of Ownership
- Assembled Vehicles
- Gray Market Vehicles
- Engine Swaps

Vehicles Exempt From Emission Testing
Practical Exam Preparation

Preparing to Conduct an Emission Test

Is an inspection necessary?

Why does the customer want a test?

- NAC 445B.580
- NAC 445B.5805
Vehicle Inspection Menu
Nevada NV2000 Analyzer

1. Emission Inspection
2. Reprint Vehicle Inspection Report
3. Training Mode
4. RPM Pickup Screen
5. Vehicle Registration
Return to Main Menu

Enter your User ID Number

OK Cancel
Scan the Bar Code on the Vehicle for the VIN. If Bar Code is NOT Available, Enter the VIN Manually.

GCGC24R0YF448354

NAC 445B.489 • NAC 445B.4983
Please enter the VIN using the keyboard.

Please verify that the following information is correct and accurate:

VIN: 1GCGC24R0YF448354

Is this information correct?

Yes  No

Vehicle Inspection Menu
Nevada NV2000 Analyzer

Attention:
Warning: You have unread priority bulletins

Ok
Select the License Plate Type:
- Nevada Plate
- Non-Nevada Plate
- No Plate

Select the No-Plate Reason:
- DEALER SALE
- OPERATING PERMIT
- Out of State Vehicle
- OTHER

Enter the License Number of the Vehicle:
123ABC
Please verify that the following information is correct and accurate:

license plate: EX24432
license plate type: Nevada Plate

Select the County in which the Vehicle is based:
- CLAY
- WASHOE
- OTHER

Vehicle Inspection Menu
Nevada NV2000 Analyzer

Motor Home
Is the vehicle a motor home?
- Yes
- No
Enter the Vehicle Odometer reading. A Minimum of One Numeric Entry is Required. DO NOT ENTER THE TENTH'S DIGIT.

Performing Network Communications

Continue
Looking at the single exhaust diagram, with the same cylinder 8 failure where all the exhaust is forced to intermix in the catalyst or the muffler, the vehicle would likely fail.

If in doubt, test the vehicle as dual exhaust.
Enter Label Inspection
Findings:
1. 5049 STATE CERTIFICATION
2. LABEL MISSING
3. MEXICO CERTIFICATION
4. CANADA
5. OTHER

Information Sources
Under Hood Emission Labels

Label Exercise
Click for the Link
Tailpipe Testing & Visual Inspections

Let's talk about Testing and Visual Inspections for TSI Vehicles.

Air Injection Systems

"Air Injection Required"
What does this really mean?
Enter the Vehicle Odometer reading. A Minimum of One Numeric Entry is Required. DO NOT ENTER THE TENTH’S DIGIT.

12345

Is the vehicle supposed to be equipped with an Air Injection System? (Y/N) N

BEFORE BEGINNING THE EMISSIONS INSPECTION PORTION OF THE TEST, BE AWARE OF THE FOLLOWING ITEMS:

The vehicle MUST be tested in the condition in which it was received.

Conduct the Test with ALL accessories turned OFF and with the wheels properly choked.

Keep the engine running at NORMAL OPERATING TEMPERATURE (Use the temperature gauge reading OR a touch test on the radiator hose AND visual observation for overheating).
Problem Vehicles

Known Testability Issues
- http://www.bar.ca.gov
- https://www.obdclearinghouse.com/

Vehicle Inspection Menu
Nevada NV2000 Analyzer

Insert the Probe into the Vehicle's Tailpipe.

Number of Cylinders
- 2
- 3
- 4
- 5
- 6
- 8
- 10
- 12
- 16

Select RPM Pick-Up Device
- Contact Direct Non-Contact OBDII
- Non-Contact Requires Pair Cycle Selection, Rotary Engines Requires D.I.S. Selection, Quad Needs Direct or Non-Contact Pick-Up.

RPM Status
- RPM Reading Is Stable.

Verify that RPM remains stable at idle and high (if applicable) prior to exiting inspection screen and beginning emission test.
High Speed Mode

Maintain Vehicle Engine RPM between 2200 and 2800.

Rpm: 2564

1:02 PM 11/9/2021 Worldwide NV2000 Version: 0601

Idle Speed Mode

DILUTION Outside of Limits

Dilution detected. Please make sure the probe is properly inserted.

Rpm: 2505

1:02 PM 11/9/2021 Worldwide NV2000 Version: 0601

Idle Speed Mode

Maintain Vehicle Engine RPM between 350 and 1250.

Rpm: 649

Idle Speed Mode

Test Complete
Test is COMPLETED.
1. Turn off engine.
2. Remove RPM pickup lead.
3. Remove probes from tailpipe.

Visible Smoke
When to look...
How to look...

Visible Smoke
Is Visible Smoke Being Emitted From the Vehicle?

TAMPERING CHECKLIST

1. Air Injection System
2. EGR System
3. Catalyst
4. Fuel Inlet Restrictor
5. Gas Cap

Please Select One of the Following Codes:

P - PASS, F - FAIL, N - N/A

Air Injection Systems

What to look for…
Tampering

“What is Tampering”
Does it have to be Intentional?

What to look for…

• NAC 4498.452

Information Sources

Application Guides & Repair Manuals

Application Exercise

Click here
EGR System

What to look for…
Catalytic Converters

What to look for...

Fuel Inlet Restrictors & Gas / Fuel Caps

What to look for...

- NAC 4468 090
Vehicle Inspection Reports

VIR Validity...

Gas / Fuel Cap Failure

• NAC 445B.580
OBD Testing & Visual Inspections

Now… Let’s talk about Testing and Visual Inspections for OBD Vehicles.

1996 - Current Light Duty Gasoline Powered Vehicles

Diagnostic Link Connector Map

DLC locators are available at:
TURN OFF IGNITION SWITCH!

Locate the Vehicle’s On Board Diagnostic (OBD) Connector and attach the analyzer’s OBD port to the Vehicle’s Connector.

If the Analyzer has been attached to the OBD Connector click here.

If the OBD Connector is Missing, Damaged, Tampered or Inaccessible click here.
Malfunction Indicator Lamp Check

Turn the Ignition switch to the RUN POSITION with the ENGINE OFF.

Observe the Malfunction Indicator Light (MIL) as you turn the ignition switch to the run position with the engine off.

CONTINUE

This is the network diagram for the new P-1 chassis. As you can see, there are more devices being added all the time.
Did the Malfunction Indicator Light Illuminate?
Start the Vehicle!

While the engine is running, select the "Connect to Vehicle" button to establish communications with the vehicle.

Connect to Vehicle

Checking RPM: 9%

Key ON Engine RUNNING check. Verifying that Engine is Running prior to performing OBD Test.
RPM: 1081

Error Connecting to OBD

No signal from the Vehicle OBD II Connector. Recheck connections and press "Connect to Vehicle" or press "Unable to Connect" to proceed.

Connect to Vehicle
Unable to Connect
Visual Smoke

☑️ Only During Idle
☑️ Only at the Tailpipe

VISIBLE SMOKE / TAMPERING

Is Visible Smoke Being Emitted From the Vehicle?

Y - YES, N - NO

1:05 PM 11/9/2021

NAC 4458.5805

Schedule of Emission Test Fees

ENTER THE INSPECTION FEE $29.95

This will be added to the state administrative fee(s) and the total fee will be printed on the vehicle inspection report.

12:53 PM 11/9/2021


Schedule of Emission Test Fees
Failed Test!

How does that help the customer?

Waivers

- Printable Documents
- Who can issue?
  - NAC 445B.590

Rejected VIR
Alternative Services for Registration Renewal
At Certain Emission Stations
At a Kiosk By Mail Online @dmv.nv.gov

DMV Emission Control Program Contacts

<table>
<thead>
<tr>
<th>CLARK COUNTY</th>
<th>WASHOE COUNTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emission Control Lab</td>
<td>Emission Control Lab</td>
</tr>
<tr>
<td>• 702-486-4981</td>
<td>• 775-684-3580</td>
</tr>
<tr>
<td>Supervising Emission Control Officer</td>
<td>Supervising Emission Control Officer</td>
</tr>
<tr>
<td>• Joel Tyning</td>
<td>• Mike Morris</td>
</tr>
<tr>
<td>Smog Spotter Hotline</td>
<td>Smog Spotter Hotline</td>
</tr>
<tr>
<td>• 702-642-7664 (SMOG)</td>
<td>• 775-686-7664 (SMOG)</td>
</tr>
</tbody>
</table>

You are the Frontline Representative of Nevada's clean air program
Let's get ready to take the Exam...

1. Don't mark in test books
2. Read all instructions
3. Refer to your notes
4. Take your time
5. No cell phone use

Thank you!