



STAR Program Questions and Answers

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1. General STAR Questions

1.1 Are STAR Program scores currently available for stations and technicians?

Yes. Please visit www.smogcheck.ca.gov. Click the Industry tab, then the STAR tab, and finally the "Report Card" tab to see the scores.

1.2 What are the key program dates for the STAR Program?

The Gold Shield Program will end on December 31, 2012, and the new STAR Program will officially begin on January 1, 2013. To help with the transition, stations can begin applying for the STAR Program beginning on July 1, 2012.

1.3 How long does a station have to be in business before it can become STAR certified?

Stations may apply once they have one quarter of data to review during the application process.

1.4 How often are STAR scores updated?

The STAR performance measures reported on the BAR Web page can be divided into two groups. The first is the short-term measures, which include the Test Deviations, Similar Vehicle Failure Rate (SVFR), and Improper Gear Selection during the ASM test. The second group includes criteria associated with the Follow-up Pass Rate (FPR), which is a long-term performance measure. The short-term scores are updated every month, however, pass/fail decisions are made only on a calendar quarter basis. FPR scores, on the other hand, are calculated and updated on the Web page twice a year, in January and July.

1.5 Can shop owners use the STAR Web site to hire technicians?

STAR scores are provided for all stations and technicians licensed to perform Smog Check inspections and/or repairs in the Smog Check Program. Stations looking to hire new technicians may choose to check the applicant's STAR scores prior to hiring since the technician's FPR score will directly affect the station's STAR certification. Similarly, station owners can check a technician's performance on the other STAR measures to make sure that the technician is less prone to adversely affect a station's STAR scores.

Technicians also may want to check the STAR scores of stations that are potential employers.

1.6 Once a station's STAR certification is invalidated, how long until that station is eligible to re-apply to the STAR Program?

Stations that have their STAR certification invalidated by BAR are not eligible to apply for the STAR Program for at least six months. A station or any of its technicians also cannot have received a citation within the last year, nor have been the subject of a BAR administrative action with the last three years. Both are based on the effective date of the citation or administrative action, and not the date of issuance.

1.7 If a STAR-certified station relocates to a new address, will they have to re-apply to the STAR Program?

No. As is currently the case with the current Gold Shield Program, a change of address will not affect a station's certification under the STAR Program.

1.8 How will motorists know which stations are STAR certified?

The most convenient and up-to-date way for motorists to identify stations that can inspect their vehicles is on the BAR Web page. The page contains a station search tool to help motorists find stations in their area, including the ability to search by type of station (Test Only, Test-and-Repair, and Gold Shield). When the STAR Program is implemented in January 2013, this Web page will be updated to allow motorists to identify STAR Test-and-Repair and STAR Test-Only stations, as well as other stations that are not STAR certified. The following link opens the current station search tool:

<http://www.smogcheck.ca.gov/pubwebquery/station/stationlist.aspx>

1.9 Motorists will also be able to identify STAR certified stations through new signs that will be required at these stations. Can motorists use the STAR Web site to find stations and technicians that are more likely to perform a low quality inspection?

BAR is aware that some motorists may try to use the Web site to identify lower-performing Smog Check stations that are more likely to perform an improper Smog Check inspection. To reduce the likelihood of this happening, the Web page has been designed to require that the user know the station or technician license number in order to conduct a search. While this will not prevent unintended use of the Web page, it will make it less convenient, and hopefully, less common.

1.10 How are the standards for the STAR performance measures generated?

Standards for the STAR performance measures are set by evaluating stations and technicians against other stations and technicians throughout the Smog Check program. For an explanation of how each STAR performance measure is evaluated, click on the title of any of the performance measures shown on the report card feature of the STAR Web page. The following link opens an example scenario for the STAR Report Card:

<http://www.smogcheck.ca.gov/PubWebQuery/STAR/station/555558/ST.aspx>

1.11 What source of data is used to generate the STAR performance scores?

All STAR performance scores are calculated using data collected by the BAR-97 Emissions Inspection System during a vehicle inspection and then transmitted to the Vehicle Inspection Database (VID).

1.12 Will the STAR Web page be available in Spanish?

Yes. BAR is planning to release the STAR Web page in Spanish. BAR will notify stations in an ET Blast once the Spanish version of the Web page becomes available.

1.13 My Smog Check station offers a free retest to consumers who fail their initial Smog Check at my station. Will this policy affect my STAR certification, and if so, how?

It could. Stations offering “free retests” must provide two inspections for the price of one whenever a vehicle fails its initial inspection. This can cut into station profits, especially at busy stations where shop owners must forgo additional work to perform the retests. A station’s eligibility for the STAR Program could be jeopardized in situations where stations and technicians perform incomplete or inaccurate Smog Check inspections to avoid having to provide “free retests.”

1.14 I own a Smog Check station in a Change of Ownership Area. Can I still become a STAR-certified station even though the majority of vehicles my station inspects are not in a biennial inspection (Enhanced or Basic) area?

Yes. Stations located in a Change of Ownership Area still will have the opportunity to participate in the STAR Program. However, one of the rewards of the Program – the ability to certify directed and gross-polluting vehicles – may not have as much value to a station located outside of an Enhanced Area, or even a Basic Area. Scores for both stations and technicians from Change of Ownership Areas will be posted on the STAR Web page along with scores for stations and technicians from the Enhanced and Basic Areas of the state.

1.15 Are there any plans to increase or decrease the percentage of “directed vehicles” when the STAR Program begins?

No. There are no plans to change the percentage of vehicles currently directed for inspection when the STAR program goes live on January 1, 2013.

1.16 The LPFET testability guide was removed from the emissions cutpoint lookup tool on the BAR Web site. Why was this done?

The LPFET lookup tool was originally published to help shops identify vehicles on which the LPFET test was performed by the vast majority of the industry inspecting similar vehicles. However, many technicians were using it to determine which vehicles were not subject to LPFET testing, concluding that if a vehicle was not listed then it could not be LPFET tested. This was an unintended and incorrect use of the information provided on the LPFET guide. Inspectors who used the information in this incorrect manner could have experienced problems meeting the “Evap Not Performed” standard if they failed to perform the evap test on vehicles for which the evap test could be performed. To clear up the confusion, this lookup tool was removed from the Web page.

In all cases, technicians are ultimately responsible for determining whether or not a vehicle is actually testable using the LPFET procedures defined in the Smog Check Inspection Procedures Manual.

2. Questions Related to Test-Only, Test-and-Repair

2.1 What types of stations will be operating in the Smog Check Program when the STAR Program begins?

When the STAR Program begins on January 1, 2013, Smog Check stations planning to test vehicles can be licensed as either a Test-Only station or a Test-and-Repair station. Gold Shield stations will cease to exist. Both Test-Only and Test-and-Repair stations may apply for STAR certification. As a result, there will be four possible station types:

- **Test-Only** -- can only test vehicles, but cannot test directed vehicles or gross-polluting vehicles;
- **Test-and-Repair** – can test and repair vehicles, but cannot test directed vehicles or gross-polluting vehicles;
- **STAR Test-Only** – can only test vehicles, including directed vehicles and gross-polluting vehicles;
- **STAR Test-and-Repair** – can test and repair vehicles, including directed vehicles and gross-polluting vehicles; also must provide repair assistance services under BAR’s Consumer Assistance Program.

In addition, BAR is preparing a regulation package to create a new Repair-Only station license for the Smog Check Program. However, since these stations will be licensed only to perform repairs, and no Smog Check inspections, they will not be eligible for the STAR Program.

2.2 If I own a Test-Only station but choose not to participate in the STAR Program, can I still inspect directed vehicles?

No. Only STAR certified stations may inspect directed and gross-polluting vehicles.

2.3 Can Test-Only stations apply for certification under the STAR Program?

Yes. Unlike the current Gold Shield Program, there are no repair-based performance measures in the STAR Program that would prevent Test-Only stations from applying.

2.4 Can a Test-Only station apply for certification as a STAR Test-and-Repair station?

Yes. Since there are no repair-based performance measures in the STAR Program, a Test-Only station will be allowed to change its license to a Test-and-Repair station and apply for the STAR Program.

2.5 Can I own both a Test-Only station and a Test-and-Repair station, regardless of whether or not the stations are STAR-certified?

Yes, but with some restrictions. If the two stations have a common financial interest and are located adjacent to each other, or in the same business park, strip mall, or industrial complex, one station cannot be licensed as a Test-Only station and the other licensed as a Test and Repair station. Instead, they both must be either licensed as a Test-and-Repair station or both licensed as a Test-Only station.

3. Questions Related to Gold Shield

3.1 What happens to Gold Shield stations in January 2013?

The Gold Shield Program will be ending on December 31, 2012. Gold Shield stations must apply for STAR certification and be certified by BAR Licensing if the station wants the uninterrupted ability to inspect directed and gross-polluting vehicles when the new STAR Program begins in January 2013. To help prepare for the transition, stations may apply to the STAR Program beginning in July 2012.

3.2 How does the Gold Shield Program differ from the STAR Program?

The Gold Shield Program is specifically designed to grant Test-and-Repair stations that met specific performance criteria the ability to inspect directed vehicles. Gold Shield stations were also responsible for performing state-funded repairs under the Consumer Assistance Program (CAP). The performance measures for the Gold Shield Program are largely based on repair data.

The STAR Program is a certification program for both Test-Only stations and Test-and-Repair stations that wish to inspect directed vehicles and gross-polluting vehicles. Stations that are not STAR certified are not allowed to certify directed and gross polluting vehicles. By law, performance measures for the STAR Program must be the same for both Test-Only stations and Test-and-Repair stations; therefore, there are no standards that are based on the number or quality of repairs. The performance measures for the STAR Program also must be inspection-based. CAP repairs currently performed by Gold Shield stations will be performed by STAR certified Test-and-Repair stations beginning in January 2013.

4. Questions Related to Non-FPR Performance Measures

4.1 Where can I get more information on the performance measures of the STAR Program?

The STAR Web page has detailed information on each of the performance measures that can be accessed by clicking various hyperlinks within the STAR report. Each performance measure links to a definition of that performance measure.

4.2 Can one isolated mistake on a Smog Check inspection force me out of the STAR Program?

It depends on the nature of the mistake. A mistake that leads to a citation or an administrative action is grounds for and can lead to the invalidation of a station's STAR certification. In contrast, it generally takes several repeated inspection errors before a station fails to meet any of the STAR performance measures that are based on Smog Check inspection data.

4.3 How does the STAR Program account for different socio-economic areas in which stations operate?

The STAR Program does not consider geographically-based factors to identify vehicle owner means or affluence. Instead, the STAR Program uses the vehicles themselves, by comparing vehicles with similar model year, make, model, engine displacement, mileage, etc. The reasoning for this analysis is that the characteristics of the vehicles, regardless of where they are registered, are better indicators of consumer behavior and one's financial means than is the address at which one resides. For instance, it is highly likely that the average owners of 1991 Saturn Coupes with 150,000 miles will have a lot more in common with each other than people who just happen to live within a mile of each other. In other words, the best information available to help correct for differences in station demographics are the vehicles themselves. For this reason, all of the STAR performance measures take into account the specific vehicles inspected by each station, and compares to similar vehicles inspected statewide.

4.4 I can't control when motorists reset their computers prior to a Smog Check. Won't this affect my Test Deviations result for maximum readiness monitors?

While it is true that technicians often cannot control when motorists reset computers prior to an initial inspection, they should not recommend or provide this procedure to motorists prior to an inspection. When considering large samples of data, there is no reason to expect that motorists will reset vehicles tested at one station at a rate greater than similar vehicles inspected at other stations. For this reason, the primary difference between stations will be behavioral in nature. Stations that reset computers prior to inspection, or those that recommend the procedure for motorists, will tend to have elevated monitor reset levels.

4.5 When I repair a failing vehicle, I make sure all of the OBD II monitors have run prior to certifying it. Other stations, however, may follow different procedures. Will I be penalized on the Max Readiness Monitor test deviation for certifying repaired vehicles with unset readiness monitors?

No. The Max Readiness Monitor check only considers the number of unset monitors, if any, for each vehicle during its initial inspection. An initial inspection is defined as the first test done in an inspection cycle on a vehicle, whether it be a pre-test or an official Smog Check inspection. Retests that occur after a vehicle fails an initial inspection are not considered under this performance measure.

Where a station's STAR score could potentially be affected by certifying vehicles with unset readiness monitors, however, is through the Follow-up Pass Rate (FPR). Vehicles with underlying defects that are certified even though the offending OBD II monitor hasn't yet run will tend to fail their initial inspection at a higher rate in the next inspection cycle. This will tend to drive down the FPR scores for stations that previously certified these vehicles.

4.6 For the gear shift measure, won't a station be penalized if many of the vehicles it inspects have big wheels (e.g., modified 4WD trucks)?

No. The incorrect gear shift measure is fairly lenient and allows for some variation in tire size without identifying an inspection as being driven in the incorrect gear. The real underlying question here is whether or not technicians are allowed to modify test procedures when motorists have modified their vehicles to such an extent that the vehicle cannot pass the emissions test when driven in the correct gear.

Smog Check technicians are required to follow the procedures outlined in the [Smog Check Inspection Procedures Manual](#).

Automatic transmission vehicles should be tested in "drive" while manual transmission vehicles should be tested in 2nd gear. Manual transmission vehicles can only be shifted into a different gear if the engine RPM during an ASM mode falls outside of the allowable range. If a vehicle fails the ASM test because the vehicle has incorrectly-sized tires which affected the emission readings, the technician should not accommodate the non-stock tires by modifying the test procedure. Instead, the vehicle should be returned to its stock configuration and then tested.

4.7 How do you measure repair effectiveness for STAR Test-and-Repair stations?

Repair effectiveness is not evaluated as part of the STAR Program. [AB 2289 \(Eng, Chapter 258, Statutes of 2010\)](#) specifically precludes BAR from using different performance measures for both Test Only stations and Test-and-Repair stations in the STAR Program. Since Test-Only stations do not perform repairs, we cannot use repair effectiveness as a performance measure for any station in the STAR Program.

4.8 If a technician at the station I own gets a citation, is my station out of the program?

A STAR station cannot employ a technician who has received a citation within the last year or is the subject of a BAR administrative action within the last three years. Both are based on the effective date of the citation or administrative action, and not the date of issuance. This is true even if the technician received a citation or had an administrative action taken against their license while employed at another station.

4.9 Should I pre-screen vehicles for unset readiness monitors to avoid a possible deviation?

The “Max Readiness Monitors” measure is intended to identify stations that, prior to performing the initial test on vehicles for a given inspection cycle, reset the OBD II system in an attempt to get vehicles through the inspection process without making necessary repairs. An initial inspection may be an official inspection or a pretest and is the first test performed on a vehicle in its current inspection cycle, which may be for biennial inspection, change-of-ownership, or initial registration. Stations routinely engaging in this practice of resetting computers to mask diagnostic trouble codes (DTCs) will tend to have an elevated percentage of vehicles undergoing an initial inspection with exactly the number of unset readiness monitors allowed to pass the OBD II portion of the Smog Check inspection.

While prescreening the OBD II system for unset readiness monitors is allowed, it shouldn't be necessary in most circumstances.

4.10 My BAR-97 emissions inspection system often has difficulty picking up a stable engine RPM signal for vehicles with distributorless ignition systems (DIS). Will this affect my STAR score?

The one STAR performance measure that uses the engine RPM reading is “Incorrect Gear Selection.” For that measure, ASM test results accompanied by abnormally high RPM readings are flagged as having been shifted into the incorrect gear during an ASM test mode.

Normally, antenna-based RPM errors will not result in Incorrect Gear Selection incidents. Antenna-based errors typically drive the RPM low, not high, as the RPM reading often drops out completely. Low readings will not cause Incorrect Gear Selection incidents. Furthermore, results for this measure are corrected for the specific vehicles inspected by each station. In other words, results for specific vehicles for which RPM readings are difficult to measure will be compared to results from similar vehicles, thus the performance standards will be appropriately based upon the vehicles inspected by each station.

Still, BAR recommends that stations pull the RPM readings directly from the OBD II system whenever possible. For CAN vehicles, which often have DIS and for which original BAR-97 emissions inspection systems cannot communicate through the OBD II port, stations may want to consider purchasing the BAR-97 update. This will allow inspectors to collect RPM readings for CAN vehicles directly using the OBD II port.

4.11 What should I do if I think an incident for one of the short-term measures is incorrect?

The STAR page provides information related to vehicle testability on certain elements of the Smog Check inspection based upon results from the industry for similar vehicles. However, BAR is providing stations an opportunity to challenge an incident in situations where the STAR page indicates that a station failed to perform a specific element of the Smog Check inspection and the station can prove that the test was not appropriate.

For example, if an incident is shown for your station not having performed a timing test on a vehicle when the vast majority of other stations did perform a test on similar vehicles, and the vehicle did not have adjustable timing, then the specific incident for that vehicle can be challenged.

To challenge an incident, send an email to bar.industryhelpdesk@dca.ca.gov. Challenges to specific incidences on the report card will only be considered if the challenged incident(s) will potentially affect the given station's STAR certification.

When composing your email, be specific in your concern and your supporting documentation. For example:

"The STAR Performance Report Card indicates that I should have performed a timing test on a [model year, make, model, certificate number issued] vehicle. However, as indicated in [provide a detailed reference for your information such as ALLDATA or Motor, including links or page numbers], this vehicle does not have adjustable timing and, for this reason, should not have a timing test."

BAR encourages the industry to submit well-researched information regarding vehicle testability, as this information will be used to refine future analyses under the STAR Program. For this reason, requests to challenge an incident will not be considered if the basis for the challenge has not been researched and supported with specific documentation.

4.12 If I replace a failing fuel cap in the middle of the inspection and then pass the vehicle, will that hurt my Similar Vehicle Failure Rate (SVFR)?

Smog Check inspectors have the option to replace leaking fuel caps mid-inspection in order to avoid having to fail the vehicle when the sole reason for the Smog Check failure is the fuel cap. When this occurs, and the inspector indicates that the fuel cap was replaced during the test, the SVFR performance measure will treat the inspection as though the fuel cap failed the leak-down portion of the inspection. Thus, while the official result for the inspection was a pass, replacing the cap mid-inspection will not hurt a station's SVFR.

4.13 Does the type of transmission entered during an ASM inspection affect the Incorrect Gear Selection performance measure?

Yes. If an inspector enters a manual transmission vehicle into the EIS as an automatic transmission, the inspection will likely trigger a gear shift incident. This is due to the fact that the measured RPM for a manual transmission vehicle tested in 2nd gear during the “2525” mode of the ASM test will often fall outside the allowable range for automatic transmission vehicles. This type of error will be apparent when looking at the individual incidents under the Incorrect Gear Selection performance measure because the RPM during the “2525” portion of the ASM test will be roughly two-thirds (2/3) higher than the RPM of the “5015” test mode. The way to correct this problem is to be sure to enter into the EIS the correct transmission type for each vehicle receiving an ASM test. As a general practice, we also recommend carefully reviewing all vehicle data entered into the EIS prior to beginning the ASM test mode.

4.14 [NEW] During an ASM test, in which gear should vehicles with automatic transmissions be inspected when the “Drive” position is not clearly identified on the vehicle?

Some newer automatic transmission vehicles, especially those with more than four forward gears, may not have clearly labeled “drive” settings. When the “drive” setting is not clearly identified on a vehicle, automatic transmission vehicles should be driven in the gear selector’s default driving position. This means the position where the vehicle automatically shifts through the forward gears during the course of driving.

4.15 [NEW] During an ASM test, in which performance mode should vehicles with user-selectable automatic transmission shift settings be driven?

Some automatic transmission vehicles have different performance modes or settings that control the automatic transmission shift points. These are typically the *standard/economy* mode or the *sport/performance/tow* mode. In the *standard/economy* setting, shift points will usually occur at lower engine RPM than they will with the *sport/performance/tow* settings. During an ASM test, vehicles equipped with user-selectable transmission performance settings should be placed in the *economy/standard* mode resulting in lower engine RPM shift points.

4.16 [NEW] During an ASM test, when a vehicle is equipped with a transmission that allows either manual or automatic shifting, how should the vehicle be inspected?

If a vehicle is equipped with a transmission that was designed to shift automatically, the vehicle shall be ASM tested in the mode allowing automatic shifting, even if the vehicle has an option for manual shift operation. Vehicles that do not have a fully automatic setting shall be tested as a manual transmission, even if they do not have a manual clutch.

4.17 [NEW] Why is it important to use updated Smog Check reference materials?

Stations and inspectors should always use up-to-date reference materials when performing a Smog Check inspection, as required by BAR regulations (Sections 3340.16(a)(6) and (7)). This would include the Smog Check Inspection Manual and Emission Control System application guides. Failure to use up-to-date material can result in improper inspection procedures that may lead to stations failing to meet the STAR performance criteria.

5. Questions Related to the Follow-up Pass Rate (FPR)

5.1 Can I participate in the STAR Program if I employ a technician who has a low FPR score?

If a station employs a technician with an FPR score that does not meet STAR standards, the station may have difficulty having its application approved for the STAR Program.

Additionally, a STAR certified station may be in jeopardy of having its STAR certification invalidated by the BAR for employing a technician with an unacceptable FPR score. The table shown at the following link will help to explain this process. [FPR Table](#)

5.2 If a STAR certified station employs a technician whose FPR score drops too low (0.1 or less), will the station automatically be ineligible to inspect directed vehicles?

Stations are subject to having their STAR certification invalidated any time they employ a technician with a low FPR score. The invalidation process will include notification to the station and an opportunity to appeal the proposed decision. BAR may consider the quick removal of a problem technician from a station as a mitigating circumstance.

5.3 Under the FPR, is a station's eligibility for the STAR Program based upon an average of the FPR scores of all technicians working at the station?

No, it is based on the lowest score of any technician currently found in the station's EIS Technician Information Table. Once a station is STAR certified, the Bureau considers any technician entered into any of the station's EIS Technician Information Tables, even if that tech has only performed smog checks for one day during the period under review, providing the employment did not occur prior to acceptance into the STAR program. Consider the following example: a station employs ten Smog Check technicians, nine of whom have perfect FPR scores of 1, and the tenth technician has an FPR score of 0. If you averaged the technicians' FPR scores together, it would be 0.9. However, since the evaluation is not based on the average, the station still would be denied STAR certification, or if already STAR certified, possibly be in jeopardy of having its certification invalidated, because the one technician has too low of an FPR score. For purposed of the STAR Program, the station would be eligible with respect to the FPR once the low-scoring technician is removed from all of the station's EIS Technician Information Tables and is no longer performing Smog Check inspections or repairs at the station.

5.4 What are my options if I am both a station owner/operator and a technician with a low FPR score?

A Smog Check station owner who is also a technician at the station and has a low FPR score may do one of two things. Since the STAR Program is strictly voluntary, the owner may choose not to have his or her station participate in the STAR Program. If the owner wishes to participate in the STAR Program, he or she must hire another technician to perform all Smog Check-related duties. He or she may not be listed in the Smog Check Technician Information Table in any of the station's EIS units without affecting the station's participation in the STAR Program. The technician/owner must improve his or her FPR score to acceptable levels before he or she can perform inspections at a station that wants to participate in the STAR Program.

5.5 How do stations or technicians improve their FPR score?

Smog Check technicians are the gate keepers to ensure that vehicles that should fail their Smog Check inspection actually do fail. Once the vehicles have failed, motorists will seek the necessary repairs to bring their vehicles into compliance. Too often, however, vehicles that should fail inspection are being inappropriately passed. This type of behavior will hurt a station's and technician's FPR score over time.

The best way for technicians to improve their FPR score is to perform accurate inspections according to the Smog Check Inspection Procedures Manual on every vehicle inspected by the technicians. Station owners can improve their FPR scores by ensuring that their technicians perform accurate inspections on vehicles coming through the station.

Specific behaviors that affect a station's or technician's FPR score include:

- Clean piping (i.e., passing a vehicle that is out of compliance with the tailpipe emissions standards by introducing a substitute clean exhaust sample through the emissions analyzer)
- Clean plugging (i.e., using a substitute source of OBD II data for a failing vehicle's OBD II self-diagnostic test)
- Shifting vehicles into the wrong gear during an ASM test
- Over-conditioning vehicles (i.e., racing the engine to get a vehicle's catalytic converter hotter than would happen under normal operating conditions)
- Not identifying visual inspection failures
- Not identifying functional inspection failures (e.g., fuel cap, ignition timing, low-pressure fuel evaporative emissions)
- Entering incorrect vehicle parameters to generate more lenient emission standards or a lighter vehicle weight loading (in order to create less treadmill resistance) during an ASM test

5.6 How long does it take to improve an FPR score?

The Follow-up Pass Rate considers how vehicles certified by each station or technician perform in their next Smog Check inspection cycle. For this reason, it could take up to 2 years to totally flush out all of the data generated by a station or technician. Still, stations and technicians can start to change their scores much sooner with the help of change-of-ownership inspections that can occur well short of the two years of a biennial inspection.

5.7 How does the FPR differ from the SVFR?

The SVFR compares the initial test failure rate for vehicles inspected at each station to the initial test failure rate for “similar vehicles” statewide. The FPR is similar in concept, however, it measures whether the actual vehicles certified by each station or technician in the last cycle are passing in the current cycle at a higher or lower rate than expected in comparison to other similar vehicles inspected throughout the state.

5.8 I can't control what happens to a vehicle after it leaves my shop. Won't this affect my FPR score?

Stations and technicians have little control over what motorists do to their vehicles once the vehicle leaves the shop. For this reason, it would be misleading to extrapolate a particular station's performance based upon how one, or even a few, vehicles performed during the next Smog Check inspection. For example, some properly inspected vehicles with passing emissions levels will fall into disrepair before their next Smog Check inspection. Conversely, other improperly certified high emitting vehicles may get fixed to run properly in their next inspection cycle. For this reason, the FPR performance measure is calculated using large amounts of data. This way, anomalous events like those just mentioned will tend to average out for all the stations and technicians. Instead of the anomalies, the systematic trends associated with proper versus improper inspections will emerge and drive the FPR scores.

5.9 If a customer of mine refuses additional necessary repairs once the vehicle's emissions will marginally pass the Smog Check, will this affect my FPR score and STAR certification even though I recommended additional repairs?

Unlike the Gold Shield Program, the STAR Program does not consider after repair emissions levels in the evaluation any performance measures. In fact, repair data doesn't factor into the STAR Program evaluation at all. Still, the Follow-up Pass Rate (FPR) measure under the STAR Program does consider whether or not vehicles certified by each station and technician pass at a higher or lower rate than average in the next inspection cycle when compared to similar vehicles. Stations that make a habit of certifying vehicles with incomplete repairs (e.g., masking a fuel system problem with a new catalytic converter) may notice a lower FPR score in the long-term, but it is unlikely that this behavior alone would push the station's or technician's FPR score to an unacceptable level. Stations and technicians who want to improve their FPR score and become STAR-certified should primarily focus on performing accurate Smog Check inspections according to the Smog Check Inspection Procedures Manual. If this is done, the marginal vehicles needing additional repairs will be less of a factor in the overall FPR calculations.

5.10 If the FPR evaluates how vehicles previously certified by stations and technicians are performing in the current inspection cycle, how will new stations and technicians be evaluated under this performance measure?

Smog Check stations and technicians with extremely low inspection volumes, including newly licensed stations and technicians, will not receive an FPR score. An FPR score will only be generated once there is a sufficient volume of follow-up inspections performed on vehicles previously certified by that station or technician.

In most cases, the lack of an FPR score will not be an issue in determining a station's eligibility for the STAR Program. The only time that a lack of an FPR score may be an issue is when a technician seeks to be employed by a STAR-certified station that itself has a low FPR score (less than 0.4). STAR stations with low FPR scores cannot hire technicians who do not have FPR scores.

Similarly, STAR-certified stations without FPR scores cannot hire technicians with low FPR scores (less than 0.4). This is the same limitation placed on STAR stations with FPR scores greater than or equal to 0.4. For more information on the various FPR rules for determining STAR Program eligibility, please visit the following link: [FPR Table](#).

5.11 If an inspector goes on an extended leave due to a medical condition or some other reason, what happens to his or her FPR score?

The FPR measures whether vehicles certified previously by each station or inspector are passing in the current inspection cycle at a higher rate than average. Vehicles previously certified by higher performing stations and inspectors will tend to fail at a lower rate in the current inspection cycle. For more information about the FPR, see the following link:

http://www.smogcheck.ca.gov/PubWebQuery/STAR_demo/DataDefinition.aspx#FPR

Because the FPR reflects station and inspector performance on vehicles they previously certified, stations and inspectors do not have to be currently performing inspections in order to generate an FPR score. In addition, vehicles previously certified by a station or inspector do not have to be re-inspected by the same station and inspector in order for the vehicle to be evaluated under the FPR.

So, an inspector who takes a leave of absence for a period of time could still have an FPR score and that score could change based on the results in the current inspection cycle of vehicles the inspector previously certified. If, however, the inspector is on leave for a period of years, there will eventually be a point at which there are no longer any vehicles certified by the inspector to generate an FPR score. At that point, the inspector will cease to have an FPR score under the STAR Program. However, an inspector without an FPR score can still perform Smog Check inspections at a STAR station, provided that station has an FPR score of 0.4 or higher, or does not have an FPR score because it is either a new station or, similar to the inspector in this example, has an extremely low inspection volume.

FPR scores are updated every six months, in January and July.

5.12 How can a station with a high FPR score have two inspectors with entirely different FPR scores?

First, it is important to remember that FPR scores are affected by both the quality of inspections performed and inspection volume for vehicles previously certified by both stations and inspectors.

For example, let's assume that two inspectors have been employed for years at the same station, and that has been their only place of employment. Let's also assume that the two inspectors previously certified the same number of vehicles now being inspected in the current inspection cycle, but one of the inspectors performed higher quality inspections than the other inspector. In this case, it is fairly simple to understand that the higher performing inspector will have a better FPR score.

Now, let's consider another scenario for two inspectors employed for years at the same station. Let's also assume that both inspectors perform the same quality of work, but with one of the inspectors performing twice as many inspections as the other inspector. Which inspector will have the higher FPR score? The answer depends upon the quality of their identical performance. If their performance is above average, then the inspector with the higher inspection volume will have a higher FPR score because the statistical confidence of his or her higher performance will be greater with the larger sample size. Similarly, if their performance is below average, then the higher volume inspector will have the lower score because, again, the statistical confidence of his or her higher performance will be greater with the larger sample size.

For these reasons, one can't automatically assume that an inspector with a score of 0.9 performs higher quality inspections than an inspector with a score of 0.75. Instead, scores should be evaluated by whether or not they are above 0.5. Scores above 0.5 are trending better than average. Above average performance should be the goal for stations that want to participate in the STAR Program. Note that the FPR performance threshold for technicians entering a STAR station is 0.4, which is below the 0.5 level mentioned above. This lower limit was selected to allow inspectors near the threshold the benefit of the doubt.

5.13 [NEW] Why is my FPR so low, even though my results for the STAR short-term measures look good?

The first reason why short-term results can be different from the FPR results has to do with the time frame over which the inspection results generated by the station or inspector are being evaluated. The short-term performance measures evaluate inspection performance based upon the most recent calendar quarter of data. The FPR, however, evaluates the inspection performance for each station or inspector in the previous inspection cycle. As a result, the short-term performance measures are evaluating performance over a different time frame than the FPR. Consequently, differences between short-term results and FPR scores could result from things such as station personnel changes or station policy changes.

Other reasons why the short-term results can differ from the FPR scores are based upon the nature of the measures themselves, as is shown below.

The short-term performance measures are designed to provide a simple litmus test of recent performance to evaluate stations (and the work done by their inspectors). It can be a great resource in helping a station identify problem areas and improve their overall performance in the Smog Check Program. For instance, if a station is failing to perform the fuel evaporative test on vehicles that should be tested, there is a short-term measure that can help a station identify that as an area needing improvement.

The short-term measures are not, however, comprehensive. For example, a station's inspectors can indicate in the analyzer that the ignition timing is adjustable for all vehicles tested at the station, and give that station a passing result on this performance measure. However, that does not mean that the station's inspectors actually performed the timing test, or that the timing test was performed accurately. Similarly, a station may have a low ASM restart rate, which would indicate that its inspectors don't appear to be trying to find ways to get vehicles that should otherwise fail to instead pass the test. At the same time, however, that station's inspectors may be routinely over-conditioning vehicles prior to starting the inspection. Neither the improper timing inspections, nor the habitual over-conditioning of vehicles, as well as other more serious violations, such as clean-piping, would be identified by the short-term measures.

For this reason, BAR felt it necessary to develop a more robust, long-term measure of station and inspector performance in the Smog Check Program. The result is the Follow-up Pass Rate (FPR), a performance measure that evaluates both station and inspector behavior from inspection cycle to inspection cycle. Anything inspectors do to get a vehicle that should fail its Smog Check inspection to pass while still in a failing condition will start to affect their FPR score. Stations that want to score well on both the short-term measures and FPR will want to strive to always perform accurate Smog Check inspections.

5.14 [NEW] In order to maintain a high FPR score, should I refuse to inspect older, higher mileage vehicles?

No, even though Smog Check stations have the right to refuse to inspect vehicles they are uncomfortable testing. The reason is that all of the performance measures used in the STAR Program, including the FPR, compare the vehicles inspected by each station and inspector to similar vehicles inspected throughout the state. Therefore, if your station only inspects older, higher mileage vehicles, then the results for your station are only going to be compared to the statewide results for similar older, higher mileage vehicles. Because of this important factor, there is no more reason to be concerned about certifying an older vehicle with a carburetor than there is a newer vehicle one with fuel injection. What matters is that inspectors perform accurate inspections and properly fail vehicles that should fail.

5.15 [NEW] Why does it appear that my FPR scores jump around?

Each time FPR scores are updated, some stations and inspectors may find that their FPR scores change. This will be more evident for stations and inspectors whose Smog Check inspection performance is closer to average. Others, whose behavior diverges more from average, will find their scores to be more stable, either at the high end or the low end of the performance scale. If a station owner or inspector wants consistently high FPR scores, then performing consistently high quality inspections is critical.

But, it is important to point out that sample size can affect STAR scores. The more vehicles previously certified by a station or inspector that are inspected in the current cycle, the easier it is to determine whether or not that station or inspector's performance is above or below average. This means that scores can change due to the number of vehicles being inspected in the current cycle. So, if two inspectors perform similarly and above average, the inspector with the higher inspection volume will have a higher score. On the other hand, if two inspectors perform similarly but below average, the inspector with the higher inspection volume will have a lower score. This feature can also affect individual inspectors. For example, if an inspector maintains a consistent level of above average performance with FPR scores of 0.6, that inspector's FPR scores would move closer to 1.0 with an increase in the number of inspection performed by the inspector.

It is also important to remember that inspector performance can and does change over time and this can affect both a station and inspector's FPR score. Station owners and inspectors need to reflect on what was happening two to three years ago to understand how these changes may be driving today's FPR scores. Were station owners or managers pushing high throughput at the expense of inspection quality? Were inspectors over-conditioning vehicles or driving them in the incorrect gear? Were inspectors taking the time to thoroughly visually inspect and functionally test all of the emission-related components as required by the Smog Check inspection procedures? When trying to understand FPR scores today, look back in time to see what was driving scores today.

Station FPR scores can also change based upon which inspectors were operating at the station at the time the vehicles were last certified and who was managing the station. Even though a station may take steps to address a problem where an inspector was performing improper inspections, the improper certifications issued by that inspector can affect that station's FPR score for some time.

It's also important to realize that accurate Smog Check inspections may take more time to perform. As a rule of thumb, a comprehensive inspection, including accurate determination of proper inspection procedures and thorough performance of the visual inspection and all applicable functional tests, will often take 20+ minutes. These times may be reduced some if the inspector is experienced and has a lot of familiarity with the vehicle. Still, as evidenced by the STAR short-term performance results, many inspectors are making more mistakes than they probably realize. When in doubt, slow down and perform the inspection correctly.

6. I Still Can't Find the Answer to My Question!

6.1 What if I have a question that does not appear on this list of Questions and Answers?

Please send us an email at bar.industryhelpdesk@dca.ca.gov so that we can add it to the Q&A list and help other stations and technicians who may have the same or similar question.