NC 191: SMOG CHECK INSPECTOR TRAINING LEVEL II

Citrus College Course Outline of Record

Heading	Value
Effective Term:	Fall 2022
Credits:	0
Total Contact Hours:	45
Lecture Hours :	18
Lab Hours:	27
Hours Arranged:	0
Outside of Class Hours:	36
Strongly Recommended:	AUTO 148 or AUTO 168 or Level 1 smog training or ASE A6, A8 and L1.
Transferable to CSU:	No
Transferable to UC:	No
Grading Method:	Non-Credit Course

Catalog Course Description

This training provides students the procedural knowledge, skills, and abilities to perform Smog Check inspections. Students who complete and pass this training in conjunction with Level 1 training or ASE A6, A8 and L1 will meet the State's Bureau of Automotive Repair requirements for qualifying to take the Smog Check Inspector state licensing examination. 18 lecture hours, 27 lab hours.

Course Objectives

- Learn the operation and maintenance of the State of California smog inspection equipment.
- Learn the expectations and responsibilities of the Smog Inspection Technician.
- Perform a smog inspection according to State laws and regulations.
- Identify and describe emission-related equipment.

Major Course Content

1. Vehicle safety guidelines related to emissions testing
2. Review of Bureau of Automotive Repair's rules and regulations related to smog check inspections
3. Smog check station requirements
4. Vehicle applicability to smog check inspections
5. Review role of State Referee stations
6. Emissions testing procedures
7. Vehicle Inspection Report information
8. Emissions testing equipment function and maintenance
9. Auxiliary emissions equipment use and applicability
10. Description of major vehicle emissions systems
11. Pass/Fail criteria of emissions systems when performing vehicle inspection
12. Identify vehicle emissions applications using application guide
13. Aftermarket parts applicability
14. Fuel leak and smoke inspection during smog check
15. Diesel engine component identification and operation
16. Visual inspection requirements
17. Dynamometer operation and use
18. On-board diagnostic system inspections
19. Data link connector locations
20. Malfunction indicator light inspection
21. Ignition system timing inspection
22. EGR system inspection
23. Fuel cap inspection
24. Low pressure evaporative test procedures

Lab Content

1. Perform vehicle safety assessment
2. Perform inspection equipment maintenance
3. Calibrate emissions inspection equipment as per program requirements
4. Perform visual inspection of on vehicle emissions systems
5. Perform visual inspection of sensor and fuel control components
6. Perform fuel leak inspection
7. Perform smoke test
8. Conduct vehicle emissions testing using BAR EIS
9. Conduct vehicle emissions testing using BAR OIS
10. Perform EGR functional test
11. Perform fuel cap pressure test
12. Perform low pressure fuel evaporative test
13. Perform ignition timing functional test

Suggested Reading Other Than Required Textbook

Smog Inspection and California Bureau of Automotive Repair Rules and Regulations manuals found on state-run website.

Examples of Required Writing Assignments

None

Examples of Outside Assignments

Review Bureau's sample videos online. Use provided sample vehicle information packet and answer review multiple choice questions. E.g., A vehicle is being inspected during a smog check and the technician finds that the exhaust manifold has been replaced with aftermarket headers. Which of the following should the technician do first? a. Look for an E.O. number b. Fail the vehicle immediately c. Send the vehicle to a state referee station d. Continue with the test since exhaust headers do not constitute a fail
Use smog check manual and Rules and Regulations information to answer multiple choice questions in take-home packet.

Instruction Type(s)

Lab, Lecture, Online Education Lab, Online Education Lecture