

## NO RTEC JOB SPECIFIC SKILLS COMPETENCY

### ENGINE EMISSION TECHNICIAN (Licensed Basic Area Smog Check Technician)

DOT 029.261-014 SVP 6

**Job Description:** Inspects, diagnoses, adjusts, repairs and certifies the emissions control systems on vehicles subject to the California smog check program at smog check stations in areas of the state designated as basic vehicle inspection and maintenance program areas.

**Physical Demands** - Mildly active, w/light lifting, carrying, and moving (up to 20 lbs); **General Educational Development** - R4 M4 L4;

**Aptitudes** - Average General Learning Ability, Verbal, Numerical, Form Perception, Clerical Perception, and Color Discrimination.

*Note: Technicians employed to perform inspections, repairs, and certifications at stations in California enhanced program areas must obtain an Advanced Emission Technician License*

### CORE SKILL COMPETENCIES/INDICATORS:

1. Can demonstrate ability to successfully pass the California Bureau of Automotive Repair (BAR) Smog Check Technician Licensing Examination. (R, IN, S, T) *Note: This item requires achievement documentation, not just rating (Pre-test deficiency = No; Post-test proficiency = Yes)*
2. Can demonstrate successful completion of the National Institute for Automotive Service Excellence in the certification categories of Electrical/Electronic Systems and Engine Performance, or successful completion of training course(s) approved by BAR (identify). (R, IN, S, T) *Note: This item requires achievement documentation, not just rating (Pre-test deficiency = No; Post-test proficiency = Yes)*
3. Can demonstrate successful completion of the BAR Basic or Advanced Clean Air Car Course. (R, IN, S, T) *Note: This item requires achievement documentation, not just rating (Pre-test deficiency = No; Post-test proficiency = Yes)*
4. Can demonstrate familiarity with California State regulations. (R, IN, S)
5. Can demonstrate an understanding of the basic functions of vehicle engines and emission controls. (R, IN, S, T)
6. Can demonstrate an understanding of new automotive technologies. (R, IN, S, T)
7. Can correctly determine the need for inspection, type of inspection, and inspection procedures. (R, IN, S, T)
8. Can properly identify vehicles that must be inspected by referee stations, and give the consumer correct and adequate information about the referee process. (R, IN, I, S, T)
9. Can demonstrate ability to identify each vehicle by year, make, model, and certification status. (R, IN, S)
10. Can understand and use inspection, diagnostic, and repair reference materials to determine required emission control equipment and vacuum hose routing. (R, IN, S, T)
11. Can correctly determine what emission control equipment is required, evaluate the actual condition of the required equipment, and correctly report the condition. (R, IN, S, T)
12. Can demonstrate ability to operate emission test equipment and diagnostic equipment. (R, IN, S, T)
13. Can demonstrate ability to perform complete and accurate functional and emission tests on the wide variety of vehicles in the Smog Check Program. (R, IN, S, T)
14. Can demonstrate ability to review and accurately interpret emission test results and explain them to consumers. (R, IN, S)
15. Can evaluate emission test results and diagnostic information to determine most likely causes of failure. (R, IN, S)
16. Can diagnose and correct emission problems effectively, within applicable cost limits. (R, IN, S, T)
17. Can demonstrate ability to conduct after-repair tests properly. (R, IN, S, T)
18. Can demonstrate an understanding of, and can follow the requirements for written estimates, customer authorization, and record keeping. (R, IN, S)
19. Can demonstrate ability to explain to a motorist why inspections and repairs are necessary, as well as why vehicles are equipped with emission controls. (IN, I, S)
20. Can demonstrate ability to deal with people beyond giving and receiving instructions. (I)