

Career Technical Education (CTE) Course Outline

Course Title:	Auto Tech: Smog Check Inspector Training Exam Preparation
Course Number:	79-60-73
Date:	July 2024
Industry Sector:	Transportation
Pathway:	Systems Diagnostics and Service
CBEDS Title:	Automotive Specialty, Other Combinations
CBEDS Code:	5688
Credits:	2.5

Hours:

Total
40

Course Description:

This competency-based course is designed to master the skills and knowledge needed to pass the Smog Check Inspector License Exam. Instruction includes an introduction, safety, service manuals, and computer-based information systems, smog check inspector preparation exam, test-taking strategies, employability skills and resume preparation review, and entrepreneurial skills. The competencies in this course are aligned with the California High School Academic Content Standards and the California Career Technical Education Model Curriculum Standards.

Prerequisites:	Enrollment requires successful completion of the Auto Tech: Smog Check Inspector Training Level 1 (79-90-65) and Level 2 (79-90-67) course.
NOTE:	For Perkins purposes, this course has been designated as a capstone course. This course can be repeated once a student receives a Certificate of Completion.
A-G Approval	N/A
Methods of Instruction:	Lecture and discussion, individualized instruction, lab and shop work using early and late model year vehicles.
Student Evaluation:	Summative: End of section assessments
Industry Certification:	N/A
Recommended Texts:	Bureau of Automotive Repair. <u>Smog Check Manual: Basic Clean Air Car Course Workbook</u> . Bureau of Automotive Repair, 2008
Link to Resource Folder	https://bit.ly/autotechinstrainingexam

Approved by: Renny L. Neyra, Executive Director

COMPETENCY AREAS AND STATEMENTS	MINIMAL COMPETENCIES	STANDARDS
<p>A. INTRODUCTION REVIEW</p> <p>Understand, apply, and evaluate classroom and workplace policies and procedures.</p> <p>(2 hours)</p>	<ol style="list-style-type: none"> 1. Review the scope and purpose of the course. 2. Review the classroom policies and procedures. 3. Review and demonstrate Zoom, Schoology, and basic computer skills. 4. Review students' basic knowledge in engine and emissions principles. 5. Review, identify, research, and draw conclusions regarding the different career paths, occupations, employment outlook, and career advancements in the transportation industry sector which have an impact on engine and emissions. 6. Review the opportunities available for promoting gender equity and the representation of non-traditional populations in the automotive industry. 7. Review and recognize the importance of ethics, teamwork, respecting individual and cultural differences, and diversity in the workplace. 8. Review the role of the Automotive Service of Excellence (ASE) as it applies to the automotive industry. 9. Review the role of the Automotive Service Education Foundation (ASEF) in auto technician training. 10. Review the role of the smog check inspector. 11. Review and demonstrate how reducing carbon emissions supports the use of green technology. 12. Explain and discuss the licensee expectations and station obligations. 	<p>Career Ready Practice: 1, 2, 3, 4, 5, 8, 9, 10, 11, 12</p> <p>CTE Anchor: Academics: 1.0 Communications: 2.1, 2.3, 2.5 Career Planning & Management: 3.1, 3.4, 3.5, 3.6, 3.9 Technology: 4.1, 4.5 Problem Solving & Critical Thinking: 5.4 Ethics & Legal Responsibilities: 8.2, 8.3, 8.4, 8.5 Leadership & Teamwork: 9.3, 9.4, 9.6 Demonstration & Application: 11.1</p> <p>CTE Pathway: C1.1, C1.3</p>
<p>B. SAFETY – GENERAL REVIEW</p>	<ol style="list-style-type: none"> 1. Review classroom and workplace procedures for first aid, emergencies, and accident/ injury prevention. 2. Review the California Occupational Safety and Health Administration (Cal/OSHA) workplace 	<p>Career Ready Practice: 1, 2, 4, 10, 12</p>

<p>Understand safety procedures and techniques in the auto repair and maintenance sector.</p> <p>(4 hours)</p>	<p>requirements for auto technicians to maintain a safe and healthy working environment.</p> <ol style="list-style-type: none"> 3. Review the impact of Environmental Protection Agency (EPA) legislation on Transportation Industry Sector practices in protecting and preserving the environment. 4. Review and demonstrate ASEF standards regarding proper handling, storage, and disposal of chemicals, and materials used in an auto shop. 5. Review the impact of California Air Resources Board (ARB) legislation on the Transportation Industry Sector. 6. Review how the environmental, economic, and automotive emissions impact green technology. 7. Review the Bureau of Automotive Repair (BAR) standards for consumer and environmental protection. 8. Review the use of the Safety Data Sheet (SDS) as it applies to the automotive industry. 9. Review the safety items required by federal, state, and local regulations. 10. Review the importance of proper personal hygiene in the classroom and auto shop. 11. Explain the importance of safety procedures when inspecting a vehicle. 12. Review and demonstrate the standards regarding proper use of protective equipment in an auto shop: <ol style="list-style-type: none"> a. clothing and gloves b. respiratory gear c. eye gear d. work shoes e. ventilation impacting health for hazards and exposure to emissions/exhaust gas f. handling, storage, and disposal of chemicals and hazardous materials used in an auto shop g. proper use of tools and equipment 13. Review personal safety when lifting, bending, or moving equipment and supplies. 14. Review the importance of practicing safe, legal, and responsible use of digital media information. 15. Pass the safety test with 100% accuracy. 	<p>CTE Anchor:</p> <p>Academics: 1.0</p> <p>Communications: 2.1, 2.3, 2.5, 2.6</p> <p>Technology: 4.1, 4.2</p> <p>Health & Safety: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7</p> <p>Technical Knowledge & Skills 10.2, 10.4</p> <p>Demonstration & Application: 11.1</p> <p>CTE Pathway: C1.1, C1.2, C1.3, C1.4, C2.2, C2.3, C4.1, C4.2</p>
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<p>C. SERVICE MANUALS AND COMPUTER-BASED INFORMATION SYSTEMS REVIEW</p> <p>Understand, apply, and evaluate the contents of service manuals and computer-based information systems as important sources of reference to an auto technician.</p> <p>(2 hours)</p>	<ol style="list-style-type: none"> 1. Form teams to identify the different types of service manuals. 2. Review the different types of information that can be found in service manuals such as specifications, troubleshooting charts, and repair information. 3. Review and demonstrate the use of service manuals. 4. Review, demonstrate, and analyze the use of web-based search engines in finding automotive technical information to make informed decisions. 5. Review and complete work order to include customer information, vehicle identifying information, customer concern, related service history, cause, and correction. 6. Explain the importance of documenting a customer's vehicle for bumper damage, and/or taking pictures of the vehicle, mileage, and any visible leaks prior to working on the vehicle. 7. Pass a service manual and computer-based information system assessment with an 80% score or higher. 	<p>Career Ready Practice: 1, 2, 4, 5, 9, 10, 11</p> <p>CTE Anchor: Academics: 1.0 Communications: 2.1, 2.3, 2.5 Technology: 4.1, 4.2, 4.3 Problem Solving & Critical Thinking: 5.1, 5.2, 5.3, 5.4 Leadership & Teamwork: 9.3, 9.7 Demonstration & Application: 11.1</p> <p>CTE Pathway: C2.6, C4.3, C4.4</p>
<p>D. SMOG CHECK INSPECTOR PREPARATION EXAM</p> <p>Understand, apply, and evaluate the tools and techniques used in passing the Bureau Automotive Repair (BAR) Smog Check Inspector Exam.</p>	<ol style="list-style-type: none"> 1. Discuss and state the importance of customer interactions consisting of: <ol style="list-style-type: none"> a. customer information and authorizations b. consumer assistance program c. State Referee inspection services d. State Referee appointments e. BAR Referee Label f. Voluntary Accelerated Vehicle Retirement Program (VAVR) – i.e., buy back vehicle program 2. Discuss and explain the benefits of a pre-inspection which include: <ol style="list-style-type: none"> a. primary inspection considerations b. vehicle verifications and inspection preparation c. equipment calibration and preparation 3. Discuss, research, and explain the proper procedure of an emissions test which include: <ol style="list-style-type: none"> a. emission test procedures b. visual inspection 	<p>Career Ready Practice: 1, 2, 4, 5, 8, 11</p> <p>CTE Anchor: Academics: 1.0 Communications: 2.1, 2.3, 2.5 Technology: 4.1, 4.2, 4.3, 4.5 Problem Solving & Critical Thinking: 5.1, 5.2, 5.3, 5.4</p>

<p>(24 hours)</p>	<p>c. functional tests</p> <p>4. Pass a smog check inspector exam assessment with an 80% score or higher.</p>	<p>Ethics & Legal Responsibilities: 8.2, 8.3, 8.4, 8.7</p> <p>Technical Knowledge & Skills 10.2</p> <p>CTE Pathway: C4.1, C4.2, C4.3, C5.5</p>
<p>E. TEST-TAKING STRATEGIES</p> <p>Understand and use test-taking strategies needed to pass the Smog Check Inspector exam.</p> <p>(2 hours)</p>	<ol style="list-style-type: none"> 1. Review strategies for minimizing test anxiety such as: affirmations, visualization, and mental association. 2. Incorporate stress and anxiety management tools. 3. Demonstrate strategies for answering different types of questions using reference materials. 4. Understand the different types of learning styles. 5. Employ critical reading, writing, and thinking skills. 6. Employ alliterative clauses and mnemonic devices. 7. Demonstrate utilizing discrimination, elimination techniques, and flagging questions. 8. Practice timed reading to improve speed and efficiency. 9. Research and practice viewing various social media videos pertaining to test-taking strategies. 	<p>Career Ready Practice: 1, 2, 4, 5, 8, 10</p> <p>CTE Anchor: Academics: 1.0 Communications: 2.5, 2.7 Technology: 4.1, 4.2 Problem Solving & Critical Thinking: 5.1, 5.3, 5.3, 5.4 Demonstration & Application: 11.1</p> <p>CTE Pathway: C2.6, C4.3</p>
<p>F. EMPLOYABILITY SKILLS AND RESUME PREPARATION REVIEW</p> <p>Understand, apply, and evaluate the employability skills and resume preparation</p>	<ol style="list-style-type: none"> 1. Review and define employer requirements for soft skills such as: <ol style="list-style-type: none"> a. attitude toward work b. communication and collaboration c. critical thinking, problem solving, and decision-making d. customer service e. diversity in the workplace 	<p>Career Ready Practice: 1, 2, 3, 4, 5, 7, 8, 9, 10, 11</p> <p>CTE Anchor: Academics: 1.0</p>

<p>desired of automotive technicians.</p> <p>(3 hours)</p>	<ol style="list-style-type: none"> f. flexibility and adaptability g. interpersonal skills h. leadership and responsibility i. punctuality and attendance j. quality of work k. respect, cultural and diversity differences l. teamwork m. time management n. trust and ethical behavior o. work ethic <ol style="list-style-type: none"> 2. Review a career plan that reflects career interests, pathways, and post-secondary options. 3. Revise a resume, cover letter and/or portfolio. 4. Review, analyze, research, and review the role of online job searching platforms and career websites to make informed decisions. 5. Review the importance of assessing social media account content for professionalism. 6. Review and complete and/or review an on-line job application. 7. Review and demonstrate interview skills to get the job: <ol style="list-style-type: none"> a. do's and don'ts for job interviews b. how to dress for the job 8. Revise sample follow-up letters. 9. Review the importance of the continuous upgrading of job skills as it relates to: <ol style="list-style-type: none"> a. certification, licensure, and/or renewal b. professional organizations/events c. industry associations and/or organized labor 	<p>Communications: 2.1, 2.3, 2.4, 2.5</p> <p>Career Planning & Management: 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.8, 3.9</p> <p>Technology: 4.1, 4.2, 4.3, 4.5</p> <p>Problem Solving & Critical Thinking: 5.1, 5.4</p> <p>Responsibility & Flexibility: 7.2, 7.3, 7.4, 7.7</p> <p>Ethics & Legal Responsibilities: 8.3, 8.4, 8.5</p> <p>Leadership & Teamwork: 9.1, 9.2, 9.3, 9.4, 9.6, 9.7</p> <p>Technical Knowledge & Skills 10.1, 10.3</p> <p>Demonstration & Application: 11.1, 11.2, 11.5</p> <p>CTE Pathway: C5.4, C5.5</p>
<p>G. ENTREPRENEURIAL SKILLS</p> <p>Understand, apply, and evaluate the process involved in becoming an entrepreneur in the automotive industry.</p>	<ol style="list-style-type: none"> 1. Define entrepreneurship. 2. Identify and research the necessary characteristics of successful entrepreneurs. 3. Examine personal goals prior to starting a business. 4. Evaluate sources of monetary investment in a business opportunity. 5. Explain licensing/permit requirements for a business. 	<p>Career Ready Practice: 1, 2, 4, 10, 11</p> <p>CTE Anchor: Academics: 1.0 Communications:</p>

(3 hours)	<ol style="list-style-type: none"> 6. Explain how the Small Business Administration (SBA) assists entrepreneurs with lenders and funding to help them plan, start and grow a business. 7. Demonstrate a budget to identify start-up expenses. 8. Pass an entrepreneurial skills assessment with an 80% score or higher. 	<p>2.1, 2.3, 2.5</p> <p>Technology: 4.1, 4.2, 4.5</p> <p>Responsibility & Flexibility: 7.1, 7.6</p> <p>Technical Knowledge & Skills 10.1, 10.3, 10.4</p> <p>Demonstration & Application: 11.1, 11.2, 11.3, 11.4,</p> <p>CTE Pathway: C5.1, C5.2, C5.3, C5.5</p>
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