COURSE INFORMATION AND REQUIRED MATERIALS
PO Box 944246, Sacramento, CA 94244-2460

FIRE FIGHTING AND RESCUE

Hours: 16  
Designed For: All fire service personnel  
Description: This training program will provide emergency response personnel with information for each of the alternative fuel technologies currently available; ethanol, biodiesel, natural gas, propane, and hydrogen along with electric, hybrid electric, and fuel cell vehicles.

Prerequisites: None  
Certification: None  
Class Size: 40  
Student/Instructor: Ratio: 40:1 Classroom lecture  
Restrictions: This course requires alternative fuel/energy vehicles and available refueling facilities.

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<tr>
<th>REQUIRED STUDENT MATERIALS</th>
<th>EDITION</th>
<th>VENDORS</th>
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<tbody>
<tr>
<td>The Emergency Response Guide to Alternative Fuel Vehicles</td>
<td>2009</td>
<td>SFT Web-Site</td>
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<tr>
<th>REQUIRED INSTRUCTOR MATERIALS</th>
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<tr>
<td>The Emergency Response Presentation Guide to Alternative Fuel Vehicles</td>
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<td>The Emergency Response Guide to Alternative Vehicles (Powerpoint)</td>
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EMERGENCY RESPONSE GUIDE TO ALTERNATIVE FUEL VEHICLES COURSE OUTLINE

Course Objectives: to provide the student with...

a) an overview of the social, economic and ecological issues of alternative fuel vehicles
b) the hazards associated with each fuel/energy source
c) techniques to identify alternative fuel/energy vehicles
d) an ability to identify the safety features and components of the refueling facilities
e) an application of Standard Operating Guidelines to new fuel/energy vehicle technologies.

Course Content.................................................................16:00

1. Introduction and Course Procedures .................................................................0:30
2. Introduction to Internal Combustion Vehicles ..................................................0:15
3. Ethanol Fuel ........................................................................................................1:00
4. Biodiesel .............................................................................................................0:45
5. Compressed Natural Gas (CNG) ........................................................................1:00
6. Liquified Natural Gas Propane (LNG) .................................................................1:00
7. Propane ................................................................................................................0:30
8. Hydrogen .............................................................................................................1:00
9. Introduction to Electric Vehicles .........................................................................0:15
10. Electric Vehicles ................................................................................................1:00
11. Hybrid Electric Vehicles ...................................................................................0:30
12. Hybrid Electric Buses ........................................................................................0:30
13. Fuel Cell Vehicles ...............................................................................................1:00
14. Introduction to Emergency Response ................................................................0:15
15. Alternative Fuel Vehicle Emergencies & Fires .................................................1:00
16. Extrication Safety & Organization ....................................................................2:00
17. Vehicle & Refueling Activities ..........................................................................4:00