Basics Of Electric Vehicles Natef

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There are two basic types of EVs: all-electric vehicles (AEVs) and plug-in hybrid electric vehicles (PHEVs). AEVs include Battery Electric Vehicles (BEVs) and Fuel Cell Electric Vehicles (FCEVs) . In addition to charging from the electrical grid, both types are charged in part by regenerative braking, which generates electricity from some of the energy normally lost when braking.

How Electric Vehicles Work - the technology underlying an EV
Like many future technicians, Woody Robison started by helping his father tune up the family car … Read More. Daner Torres. Technician. For Daner Torres, an ASE Certified Master Auto Technician at Wentworth Subaru in Portland … Read More. Joseph Domer. Technician.

Hybrid, Electric, Fuel Cell Vehicle Online Training - Access
Design And Function - NATEF Printed 7/2013 Course Number 820233 • Electric drive motors have excellent torque and output characteristics. They develop maximum torque from • Electric vehicles have a limited range due to battery size and construction. ...

Electric Vehicle Basics - PNM
Any news story about hybrid cars usually talks about electric cars as well. Vehicles powered by fuel cells are electric cars, and fuel cells are getting a lot of attention right now in the news. An electric car is a car powered by an electric motor rather than a gasoline engine .

[PDF] Fundamentals Of Medium Heavy Duty Commercial Vehicle ...
2.1 identify the differences between hybrid, electric and fuel cell vehicles. 2.2 explain electrical circuit principles. 2.3 describe motor and generator basics. 2.4 explain the basics of battery-operated electric vehicles. 2.5 explain the basics of hybrid electrical vehicles (HEV). 2.6 perform hybrid maintenance and service procedures.

[illegible]
The Board of Trustees of the National Automotive Technicians Education Foundation (NATEF) is responsible for accreditation of automotive (automobile, collision repair & refinish, medium/heavy truck) programs at secondary and post-secondary levels.

How does an Electric Car work ? | Tesla Model S
4 . 4 . Plug-in Hybrid Electric Vehicles (PHEV) BMW 330e . BMW x5 xDrive40e. Volvo XC90 Drive-E. Mercedes Benz C 350e. Porsche Cayenne S E -Hybrid . Mercedes Benz S500

Electric vehicle - Wikipedia
electric vehicles" we reached in the period of 1993 to 2015. Actually HEVs are still minor. In a market of about 80 million cars annually, 1.2 million hybrid electric vehicles mainly in the US and in Japan are not very impressive. This is still the market of "innovators".

ASE Education Foundation
Plug-in electric vehicle. PEV is a subcategory of electric vehicles that includes all-electric or battery electric vehicles (BEVs), plug-in hybrid vehicles, (PHEVs), and electric vehicle conversions of hybrid electric vehicles and conventional internal combustion engine vehicles.

AUT 220 AUTOMOTIVE HYBRID FUNDAMENTALS ARIZONA WESTERN ...
in the shop as specified by NATEF (National Automotive Training Educational Foundation). Preparation for ASE A-6 Certification. CSU 129 INTRODUCTION TO HYBRID, ELECTRIC AND ALTERNATIVE FUELED VEHICLES 5 UNITS C-ID ALTF 100X 3 hours lecture, 6 hours laboratory Introductory course in the study of hybrid, electric, alternative fuels and their delivery

NATEF PROGRAM ACCREDITATION STANDARDS
The energy to keep the motor or motors turning is stored on the BEV in a rechargeable battery pack. It usually is based on a lithium-ion chemistry and in a battery-electric vehicle is much larger than the batteries in conventional hybrids or plug-in hybrids – the "other" member of the plug-in vehicle (PEV) family.

Electric Vehicles: Electric Vehicles Torque
Based on the 2014 National Automotive Technicians Education Foundation (NATEF) Medium/Heavy Truck Tasks Lists and ASE Certification Test Series for truck and bus specialists, Fundamentals of Medium/Heavy Duty Commercial Vehicle Systems is designed to address these and other international training standards.

Introductory Training, Basic Overviews, and Hybrid ...
Motorage training on-demand is a detailed automotive training course for all techs at all skill levels. Introduction to Electric hybrid vehicles Systems is an introductory course that provides practical training in the theory and design of battery-powered electric vehicle propulsion systems.

NATEF Correlated Task Sheets for Automotive Technology ...
Access Online and OnDemand: Vehicle Electrification Training With the guidance of a live instructor, or with the comfort of self-paced learning, participants in Access Online and OnDemand training courses will learn about specific systems in Hybrid, Electric, and Fuel Cell Vehicles.

Hybrid and Electric Vehicles
Description. The Pearson NATEF correlated task sheets, all written by James Halderman, are designed to provide guidelines for the student who is performing a task as specified by the National Automotive Technicians Education Foundation (NATEF). The NATEF task sheets cover all of the tasks specified by NATEF for the following areas:

Electric Vehicle Basics | Department of Energy
Traditional vehicles need maintenance and hybrid and electric vehicles also need even more maintenance care, due to the different operating modes and additional High Voltage systems. The hybrid vehicle contains more cooling systems, an electric drive or transmission, and need special care of the High Voltage system to ensure optimal operation.

The basics of battery-electric vehicles explained.
In comparison, an electric vehicle (EV) uses an electric motor for propulsion. Types of Electric Vehicles. There are two basic types of EVs: all-electric vehicles (AEVs) and plug-in hybrid electric vehicles (PHEVs). All-electric vehicles use a battery that powers the motor and must be plugged in to charge.

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hybrid vehicle training courses online | Hybrid Auto
Electric cars are making big waves in the automobile world. These noise-free, pollution-free and high-performance vehicles are expected to make their I.C. engine counterparts obsolete by 2025.

How Electric Cars Work | HowStuffWorks
http://carnewscafe.com - Electric vehicles take many forms and have many different technologies in them, but there are some basic components that all EVs, wh...