ELECTUDE

ELECTRIC DRIVE

Electric Drive Technology for Automotive Students & Trainees

The Electude Electric Drive curriculum consists of a complete range of interactive lessons that are designed specifically for instructing today's generation of automotive learners about hybrid and electric vehicle technology.

- Over 20 state-of-the-art interactive lessons, tests and simulations
- Learning Management System that allows results tracking, testing and customizing classes & courses.
- Covers battery technology
- Can be used to study hybrid and/or electric only technology
- Loved by students because it is based on gaming principles
- Budget friendly

Users will develop a comprehensive understanding of the terms, components, and global operation of hybrid or electric vehicles.

With this knowledge, the user can divide the vehicles into various categories and lay out the configurations. Once this is understood, users learn about the different parts used in hybrid or electric vehicles and about the operation of the most common systems. In addition, there are also lessons on system safety and how to work on hybrid vehicles.



WWW.ELECTUDE.COM

THE ELECTRIC DRIVE LESSONS

Introduction

Electric Drive: Introduction – Introduction Electric Drive: Introduction – Energy Efficiency Electric Drive: Introduction – Configuration Electric Drive: Introduction – Categories Electric Drive: Introduction – Operation

COMPONENTS

Electric Drive: Cables

- **Electric Drive: BMS**
- **Electric Drive: CVT with push belt**
- Electric Drive: CVT with planetary gear set
- **Electric Drive: CVT (Honda eCVT)**
- **Electric Drive: DC-DC converter**
- **Electric Drive: HV-battery**
- **Electric Drive: Inverter Introduction**
- **Electric Drive: Inverter Step-up booster**
- **Electric Drive: Induction motor**
- **Electric Drive: Charging**
- **Electric Drive: Resolver**
- Electric Drive: Synchronous motor with permanent magnets
- **Electric Drive: Systems**
- **Electric Drive: Working on hybrids**

OTHERS

Rotating magnetic field Safety – Certified tools Safety – Working with high-voltage





