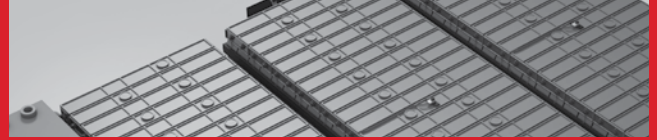


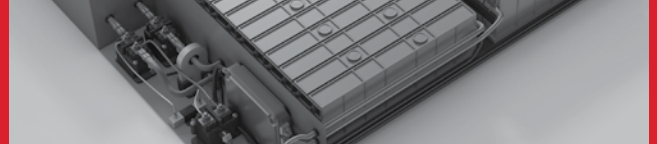
# Electric Drive

Hybrid and Electric Drive  
Technology for Automotive  
Students & Trainees

Discovery



Equals



Achievement

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

- Over 100 state-of-the-art interactive lessons, quizzes 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 vehicle technology
- Loved by students because it is based on gaming principles
- Budget friendly

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

After studying with Electude's Electric Drive, learners will be able to:

- Recognize hybrid and electric vehicle components and systems
- Divide hybrid and electric vehicles by category and configuration
- Simulate safe work practices associated with hybrid and electric vehicle service
- Simulate testing and diagnosis of hybrid and electric vehicle drive components and systems



**ELECTUDE**  
[www.electude.com](http://www.electude.com)

# Electric Drive Topics

## Introduction

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- Electric Drive: Foundations
- Electric Drive: Energy Efficiency
- Electric Drive: Configuration
- Electric Drive: Categories
- Electric Drive: Operation

## Components

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- 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

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- Rotating Magnetic Field
- Safety – Certified Tools
- Safety – Working with High-Voltage

