

THORS Academy Courses for the Light Vehicle Industry

Engine

- Engine Fundamentals: Internal Combustion
- Engine Testing Methods and Systems: Internal Combustion
- Exhaust Gas Recirculation (EGR) System Basics
- Turbocharger Basics
- Hydrogen Powered Internal Combustion Engine (HPICE) Basics
- Engine Valve Manufacturing

Drive Unit

- Bearing Fundamentals
- Differential Basics
- Gear Fundamentals
- Gearbox Basics
- Spur and Helical Gear Terminology
- Spur and Helical Gear Design Fundamentals
- Transfer Case Principles
- Transmission Fundamentals: Automatic
- Steering System Basics
- Suspension System Basics
- Chassis System Basics

EV

- Autonomous, Connected, Electric, and Shared (ACES) Vehicle Fundamentals
- Product Noise, Vibration, and Harshness (NVH) Troubleshooting

Fasteners

- Bolted Joint Basics
- Threaded Fastener Terminology and Components
- Threaded Fastener Testing and Defects
- Threaded Fastener Specifications

Control Unit

- Embedded System Basics
- Embedded Systems Programming
- Electronics Terminology
- Semiconductor Basics
- Semiconductor Manufacturing I, II, III
- Semiconductor Metrology Basics
- Semiconductor Metrology Instruments
- Printed Circuit Board (PCB) Basics
- Printed Circuit Board (PCB) Manufacturing
- Electrostatic Discharge (ESD) Basics
- Sensors: Measurement Concepts
- Solenoid Basics
- Wiring Harness Components
- Wiring Harness Wire Processing

Tires

- Tire Labels and Markings
- Tire Terminology
- Tire Defects
- Wheel Basics

Thermal System

- Heating, Ventilation, and Air Conditioning (HVAC) Basics

Motor

- Electrical Power Introduction
- Traction Motors for Electric Vehicles
- Traction Motor Stator Assembly Process
- Variable Frequency Drive (VFD) Basics

Materials

- Composite Basics
- Powder Metallurgy Basics
- Steel Basics
- Steel Fundamentals
- Polymer Basics
- Polymer Fundamentals
- Steel Tubing Basics
- Ceramic Basics
- Wrought Aluminum Basics

Coming Soon

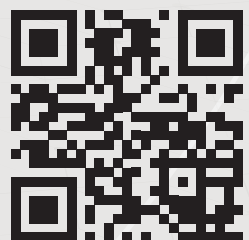
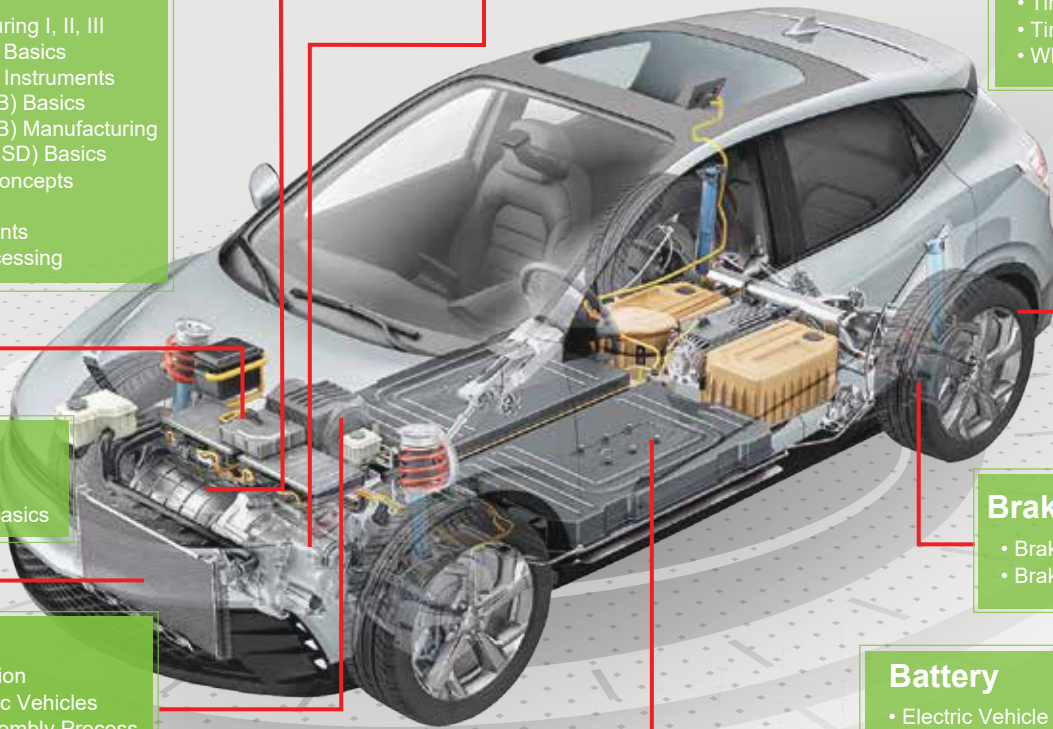
- Advanced Driver Assistance Systems (ADAS) Fundamentals
- Drive Systems for Hybrid Vehicles
- Engineering Drawings for Wiring Harness
- Wiring Harness Integration
- Wiring Harness Design
- Design Failure Mode and Effects Analysis (DFMEA) AIAG & VDA
- Design for Manufacturing and Assembly (DFMA)

Battery

- Electric Vehicle Battery Basics
- Lithium-Ion Battery Materials
- Lithium-Ion Battery Manufacturing
- Lithium-Ion Battery Charging
- Lithium-Ion Battery Testing
- Lithium-Ion Battery Safety

Brakes

- Braking Systems: Hydraulic
- Braking Systems: Pneumatic



THORS Academy Courses for the Commercial Vehicle Industry

Engine

- Engine Fundamentals: Internal Combustion
- Engine Testing Methods and Systems:
 - Internal Combustion
- Exhaust Gas Recirculation (EGR) System Basics
- Turbocharger Basics
- Hydrogen Powered Internal Combustion Engine (HPICE) Basics
- Engine Valve Manufacturing

Materials

- Composite Basics
- Powder Metallurgy Basics
- Steel Basics
- Steel Fundamentals
- Polymer Basics
- Polymer Fundamentals
- Steel Tubing Basics
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- Wrought Aluminum Basics

EV

- Autonomous, Connected, Electric, and Shared (ACES) Vehicle Fundamentals
- Product Noise, Vibration, and Harshness (NVH) Troubleshooting

Drive Unit

- Bearing Fundamentals
- Differential Basics
- Drive Axles: Heavy Duty Commercial Vehicles
- Gear Fundamentals
- Gearbox Basics
- Spur and Helical Gear Terminology
- Spur and Helical Gear Design Fundamentals
- Transfer Case Principles
- Transmission Fundamentals: Automatic
- Steering System Basics
- Suspension System Basics
- Chassis System Basics

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- Solenoid Basics
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- Wiring Harness Wire Processing

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- Heating, Ventilation, and Air Conditioning (HVAC) Basics

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