

**Product Name :**  
Fundamentals of Automotive Electrics

**Product Code :**  
LIM-CAT-L0072-00006



**Description :**

Fundamentals of Automotive Electrics

**Technical Specification :**

Fundamentals of automotive electrics

Interactive Course: Automotive electric and electronics fundamentals.

The course offers an introduction to electric and electronics in vehicles. The course consists of an application software and an experimental unit with pre-fabricated variable circuits. The course covers theory and practical experiments by using software based virtual instruments in connection with the interactive, PC based training hardware.

Learning Content:

Electrical principles specifically explained for automotive applications: Voltage DC, AC and PWM, Resistance, Current, Ohms law, Series and parallel and mixed circuits, Understanding automotive circuits, wiring diagrams and electrical symbols

Automotive electrical component testing and diagnosis: Fuses, Relays, Switches, Transistors, Potentiometers, DC motors, Light globes, Power supplies

Automotive circuits: Brake light circuit, Instrument panel dimmer circuit, Heater blower fan variable speed circuit, Horn circuit

Use of typical automotive diagnostic tools found in the workshop: Digital Multimeter, Voltmeter, Ohmmeter, Ammeter, Test light, Oscilloscope

Diagnosing of common automotive circuit failures and components with built in automatic fault switching in the following areas: Open circuits, Short circuits, Faulty components.



# Laboratory instruments manufacturers India