Automotive Maintenance -Electrical Systems

Learn where you want - when you want...

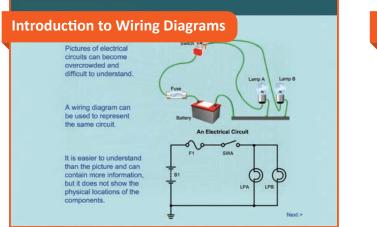
Online lessons that include that include theory presentations, exciting investigation activities and assessment guizzes.

Electrical Systems -Lesson Examples:



LEARNING

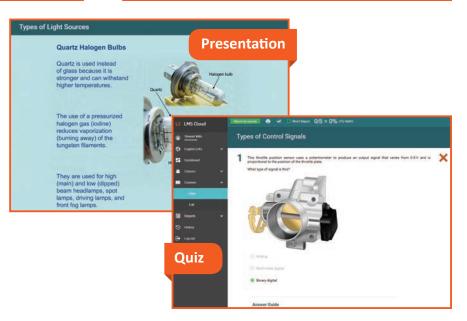
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Our tried and tested online learning sequence has been successful around the world:





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Electrical Fundamentals

- Simple Circuits
- Controlling and Protecting Simple Circuits
- Common Ground Circuits and Wiring Diagrams
- DC and AC Current
- Power
- Continuity and Circuit Faults
- Pushbutton Switches and Switch Circuits
- Changeover Switches
- Resistance and Ohm's Law
- Electricity
- Electromagnetic Principles
- Electrical Safety and Circuit Checks
- Introduction to Wiring Diagrams
- Control Principles
- Control Examples
- Information Flow
- Physical Environment to Electrical Transformation

Electrical Components and Operation

- Capacitor Types and Applications
- Diode Types and Applications
- Transistors
- Relays
- Signal Processing
- Sensors
- Types of Control Signals
- Batteries

Electrical Measurement

- Electrical Test Equipment
- Using a Multimeter
- Measuring Current
- Reading Wiring Diagrams
- Voltage Drop
- Calculating and Adjusting Permitted Voltage Drop
- Symbols, Device Markings and Terminal Block Designations

Starting Systems

- Starting Systems
- Starting and Charging
- Starting System Fault Diagnosis

Charging Systems

- Charging Principles
- Magnetism and Electromagnetism
- Charging Systems
- Alternator Construction
- Work of the Regulator
- Alternator Output Tests
- Charging System Fault Diagnosis

Lighting Systems

- Types of Light Sources
- Headlamps
- Headlamps 1
- Headlamp Flash Circuit
- Stop and Backup Lamps
- Series Lamp Circuits
- Hazard Warning Lamps
- Turn Signal Systems
- Park, Tail, and Headlamp Circuits 1
- Internal Lighting
- Park and Tail Lighting
- Parallel Lamp Circuits
- Introduction to Fault-Finding
- Lighting Fault Diagnosis