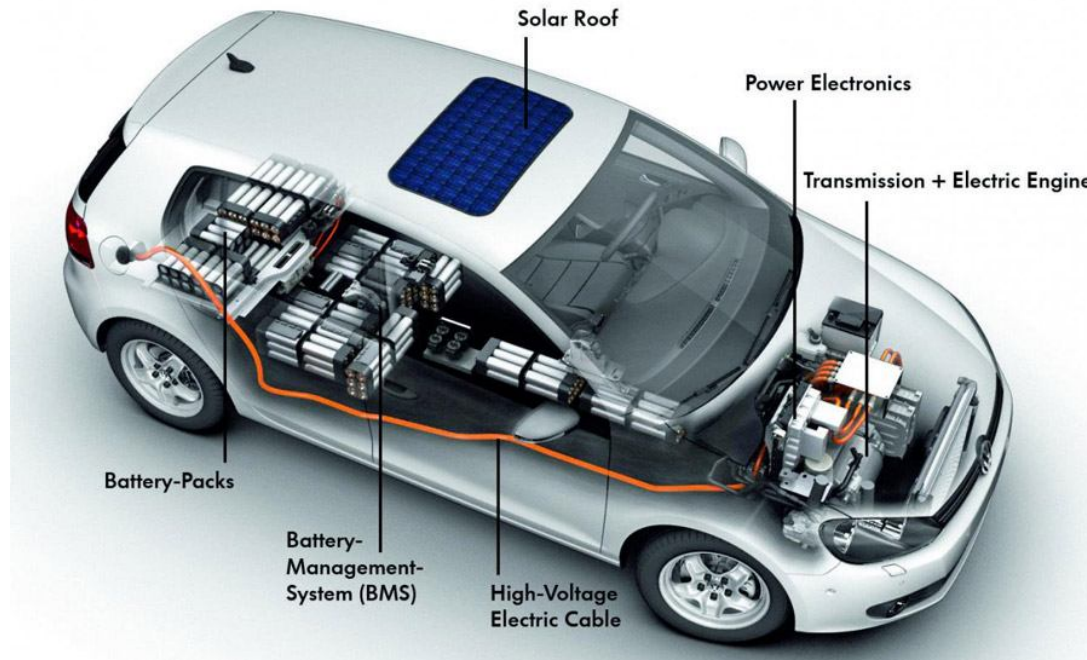


AUTO ELECTRICIAN (CAR) SYLLABUS



<i>Course duration</i>	<i>2 Weeks Saturday & Sunday</i>
<i>Course Type</i>	<i>Weekend</i>

AUTO ELECTRICIAN (CAR) SYLLABUS

DATE	COURSE SYLLABUS
WEEK1	Introductions <ol style="list-style-type: none"> 1. What is Auto Electrical & Electronics 2. Auto electrical History. 3. Models of the car (Petrol, Petrol- LPG, Diesel, LNG, HYBRID Engine) 4. Tools requirement of auto electrical service
	Electrical Car systems Parts Identification <ol style="list-style-type: none"> 1. Ignition System 2. Lighting System 3. Charging System 4. Fuel System 5. Engine Cooling System 6. Power Window System 7. Air Conditioner system 8. Windshield Wiper Systems 9. Audio System 10. Security system 11. Advanced Engineering 12. Latest Electronics & Electronically
	1. Ignition System <ol style="list-style-type: none"> 1. Battery 2. Ignition Key Switch 3. Ignition relay 4. Fuse 5. Ignition coil 6. Spark plug 7. Wire card 8. Distributor 9. Point set <p>Systems Identification, working concepts, Models & Fault Finding</p>
Week1	2. Lighting System <ol style="list-style-type: none"> 1. Headlight 2. Parking Light 3. Indicator warning light 4. Bright light 5. Reverse Light 6. Top or Roof Light 7. Rear extra break light 8. Number plate Light 9. Dash Board Meter Light 10. Engine Compartment Light 11. Boot Light 12. Fog Lights

	<p>13. Head light combination switch 14. Rear Viper Switch</p> <p><i>Systems Identification, working concepts, Models & Fault Finding</i></p>
	<p>3.Charging System</p> <ol style="list-style-type: none"> 1. Battery 2. Alternator 3. Instrument Cluster or Dashboard Meter 4. Alternator Main Cable 5. Fuse 6. Warning Lamp <p><i>Systems Identification, working concepts, Models & Fault Finding</i></p>
	<p>4.Fuel System</p> <ol style="list-style-type: none"> 1. Fuel Pump (Manual Pump, Electrical Pump & External Electrical Pump) 2. Fuel Injector 3. Fuel Gauge 4. Fuel Rail Assembly 5. Fuel Filter <p><i>Systems Identification, working concepts, Models & Fault Finding</i></p>
	<p>5.Engine Cooling System</p> <ol style="list-style-type: none"> 1. Radiator Fan 2. Thermostat switch or thermo sensor 3. Temperature switch 4. Temperature meter Gauge 5. AC Condenser FAN 6. Engine Intercooler Condenser <p><i>Systems Identification, working concepts, Models & Fault Finding</i></p>
Week2	<p>6.Power Window System</p> <ol style="list-style-type: none"> 1. Power Window Switches 2. Relay 3. Fuse 4. Power Window Motor Assembly 5. Power Window Lift 6. Power Windows On/Off Lock Switch <p><i>Systems Identification, working concepts, Models & Fault Finding</i></p>
	<p>7.Air Conditioner system</p> <ol style="list-style-type: none"> 1. Air Blower 2. Evaporator or Cooling Coil 3. AC Thermo Cut off switch 4. Compressor On/Off Switch 5. AC Compressor 6. AC Compressor Relay 7. AC Condenser Assembly 8. AC Condenser FAN 9. AC High Presser Switch

	<ul style="list-style-type: none"> 10. AC Dryer or Accumulator 11. AC Suction Hose 12. AC Discharge Hose 13. AC Expansion valve 14. AC Fuse 15. AC GAS Usage of Brand – 134 A Gas 16. AC Compressor Brand Names type (Sandan / Subros) <p><i>Systems Identification, working concepts, Models & Fault Finding</i></p>
	<p>8. Windshield Wiper Systems</p> <ul style="list-style-type: none"> 1. Wiper Motor 2. Wiper Switch 3. Win shield Washer 4. Rear Win shield Washer 5. Wiper Blade 6. Wiper Arm 7. Wiper fuse 8. Wiper Nozzle 9. Wiper Tube <p><i>Systems Identification, working concepts, Models & Fault Finding</i></p>
Week2	<p>9. Audio System</p> <ul style="list-style-type: none"> 1. CD/DVD Player 2. Rear Speaker 3. Front Speaker 4. Front Tweeter 5. Amplifier 6. Sub Woofer 7. LCD Monitor 8. AXE Cable, 9. PEN Drive 9. Cigar Light & Systems Identification, working concepts, Models & Fault Finding
	<p>10. Security & Safety System</p> <ul style="list-style-type: none"> 1. Remote Lock System 2. Center Lock System 3. Fuse 4. Child Lock 5. Steering Lock System & Systems Identification, working concepts, Models & Fault Finding
	<p>11. Advanced Engineering Sensors (Theory & Demo Class) PCM (Power Train Control Module) or ECM (Electronic Control Module)</p> <ul style="list-style-type: none"> 1. Wheel speed Sensor 2. Crank shaft position sensor 3. Engine Coolant temperature sensor 4. ABS Sensors 5. O₂- Oxygen Sensor 6. FWS Sensor (Fly Wheel Sensor)

	<ul style="list-style-type: none"> 7. <i>Intake AIR Temperature Sensor</i> 8. <i>Manifold Absolute Presser Sensor (MAP)</i> 9. <i>Throttle Position Sensor</i> 10. <i>Vehicle Speed Sensor</i> 11. <i>Brake Fluid Sensor</i> 12. <i>TPS – Tire Air Presser Sensor</i>
	<p>12. Latest Electronics & Electronically (Theory)</p> <ul style="list-style-type: none"> 1. <i>E-CVT - Electronically Controlled Continuously Variable Transmission</i> 2. <i>E-BD - Electronic Break Distribution</i> 3. <i>E-PS - Electronic Power Steering</i>
	Complete Practical Review