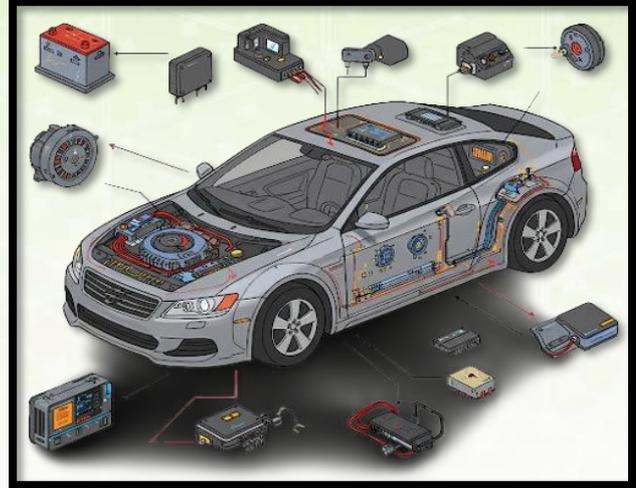


2-Day Certificate Programme

# Fundamentals of Automotive Electrical & Electronics



**23<sup>rd</sup> & 24<sup>th</sup>  
April 2026**

**SPEAKERS**



**ARAI Academy,  
Chakan, Pune**



**Dr. Sanjay A. Patil**  
Sr. General Manager  
ARAI, Pune



**Mr. Hrishikesh Kamat**  
CEO, Shalaka Connected  
Devices LLP, Pune



**Dr. Yogesh K. Bhatshvar**  
Deputy General Manager  
ARAI, Pune



**Mr. Nukul Sehgal**  
NXP Semiconductor  
Pune



**Mr. Dwipal Kalashikar**  
Functional Safety Manager  
Knorr-Bremse



**Ms. Samina Attar**  
Lead Engineer  
Lear Corporation



**Mr. Gokul M**  
Dy. Manager  
ARAI, Pune



**Dr. Manas R. Sial**  
Engineer  
ARAI, Pune

## 01 OBJECTIVES:

*The Certificate Programme on Fundamentals of Automotive Electrical & Electronics is a focused, industry-aligned training designed to provide participants with essential technical knowledge of electrical and electronic systems used in modern vehicles. This two-day course covers the fundamentals of automotive electrical and electronic architecture, embedded systems, and battery systems including Battery Management Systems (BMS). Participants will gain insight into vehicle communication networks such as CAN and LIN, automotive power electronics and electronic safety systems aligned with functional safety concepts. The programme also explores engine electronics and management systems, automotive EMI/EMC requirements, and current market trends shaping the shift toward software-defined and connected vehicles. By the end of the programme, attendees will have a strong foundation in automotive electrical and electronic systems and practical exposure to diagnostic and testing approaches used in the automotive industry.*

## 02 SCHEDULE OF THE PROGRAMME:

### Day One: 23<sup>rd</sup> April 2026 (Thursday)

#### Topics

08:30	Registration & Breakfast
09:30	Market Scenario & Global Trends: Industry shifts to ADAS, Autonomous, SDV
10:30	Automotive Embedded Systems (Microcontrollers & ECU Fundamentals)
11:30	Tea & Networking Break
11:45	Battery Systems & BMS
12:45	E&E Architecture
13:30	Lunch Break
14:30	Automotive Power Electronics & its Applications
15:30	Demo on Vehicle Electrical System on 4 Wheeler High Voltage EV and EV-HEV Lab Visit
16:15	Conclusion

### Day Two: 24<sup>th</sup> April 2026 (Friday)

09:30	Automotive EMI & EMC
10:30	Engine Electronics & Management System (Sensors, Actuators, ECU Architecture, BS-VI Compliance)
11:30	Tea & Networking Break
11:45	In Vehicle Networking : Automotive Communication Systems – CAN, LIN Basics
12:45	Electronic Safety Systems in Vehicles (Functional Safety - ISO 26262)
13:30	Lunch Break
14:30	Visit to EMI/EMC
16:00	Feedback & Assessment

### 03 REGISTRATION CONTACT:

#### Contact Details

Phone: 02135-630795/90 or 02135-396695/90

Email: [training.pga@araiindia.com](mailto:training.pga@araiindia.com) ; [patil.pga@araiindia.com](mailto:patil.pga@araiindia.com)

Website: <https://www.araiindia.com/services/knowledge-dissemination>

Office Address: ARAI Academy, ARAI-FID, B-16/1, MIDC, Chakan, Mahalunge Ingale,  
Maharashtra 410501

### 04 REGISTRATION FEES:

#### Registration Fees (Rs.)

**Rs.10,000 + 18% GST = Rs. 11,800 (per participant)**

Limited seats for Faculty & Student with a special discount

**10% DISCOUNT if 5 or more delegates are registered from the same organization**



**For Registration**

### 05 PAYMENT INFORMATION:

**Mode of Payment:** Online Transaction

**ARAI Pune Account No:** 04470200000280

**IFSC/RTGS/NEFT Code:** BARBOKARVER (0=Zero)

Note: Participants from organization in SEZ must confirm the applicability for GST before making the payment.

#### Who Should Attend:

- Automotive Electrical, Electronics & Embedded Engineers
- Professionals in Automotive R&D, Testing & Validation
- EV, Automotive Electronics & Component Manufacturers
- EV & Mobility Start-ups
- Engineering Students, Professors & PhD Scholars