

ARAI Academy Short Term Training Programmes

Automotive Research Association of India (ARAI), established in 1966, is the leading automotive R&D organization of the country set up by the Automotive Industry with the Government of India. ARAI is an autonomous body affiliated to the Ministry of Heavy Industries, Government of India. The Department of Scientific and Industrial Research, Ministry of Science and Technology, Government of India, has recognized ARAI as a Scientific and Industrial Research Organisation (SIRO). Further, ARAI is a prime Testing and Certification Agency notified by Government of India under Rule 126 of Central Motor Vehicle Rules, 1989.

In addition to utilizing state-of-the-art technology, laboratories and highly-trained personnel, ARAI recognizes the need to develop a new generation of engineers to meet the demands of the automotive industry, not just in India but across the globe. ARAI Academy is a Skill Development initiative of ARAI. It is classified into divisions, viz Learning Centre, Training Centre. Learning Centre has embarked upon a programme of building up human resources by commencing educational programme (Graduate, PG Diploma, Post Graduate & Doctoral) with specialization in Automotive Engineering. It has tied up with SRM (Chennai), KARE (Krishnankoil), COEP Technological University (Pune), Christ (Bengaluru), Chitkara University, (Chandigarh), MIT World Peace University, (Pune), RIT, Sangli, SIT, (Pune), JSPM University (Pune) and other Universities.

Training Centre has devised various Proficiency Improvement Programmes (PIPs). It gives engineers, faculty and students knowledge and technical expertise in a wide range of automotive disciplines. It helps in understanding systems view point for automotive design and manufacture, with specific skills in formulating automotive engineering solution in terms of their function and performance. Customized training programmes called Domain Training Programmes (DTPs), where training is imparted at Customer's site / ARAI are also becoming more popular. ARAI Academy has developed high quality e-learning modules called "ePIPs" on various Automobile Engineering subjects. These highly interactive e-Modules hosted on ARAI's own Learning Management System (LMS) <https://elearning.araiindia.com/> help users access these courses anytime & anywhere. With this, ARAI Academy has become global with 360 blended training approach.

TRAINING PROGRAMMES

TITLE OF THE PROGRAMME	DATE	DURATION	VENUE
Simulation for Electric Vehicle	29 th Feb – 1 st March 2024	2 days	ARAI Academy
High Voltage Safety for Electric Vehicle	7 th – 8 th March 2024	2 days	ARAI Academy
Electric Vehicle Technology and Fire & Safety	14 th - 15 th March 2024	2 days	ARAI Academy
Thermal Management of Electric Vehicle	15 th – 16 th April 2024	2 days	ARAI Academy
Bharat New Car Assessment Program (Bharat NCAP)	26 th April 2024	1 day	ARAI Academy

Fundamentals of Automotive Electricals & Electronics	2 nd – 3 rd May 2024	2 days	ARAI Academy
IC Engine Combustion Technologies	9 th – 10 th May 2024	2 days	ARAI Academy
Battery & BMS of Electric Vehicle	16 th - 17 th May 2024	2 days	ARAI Academy
EV Charging Infrastructure (Charging Infra + Swapping) (Online 12 hrs)	29 th – 30 th May 2024	2 days	ARAI Academy
Modeling & Simulation of EV by using MATLAB-Simulink	6 th - 7 th June 2024	2 days	ARAI Academy
Noise & Vibration Applications in Automotive Engineering	13 th – 14 th June 2024	2 days	ARAI Academy
Advances in the Manufacturing Processes and Assembly Techniques for Design of Lightweight Vehicle Components	20 th – 21 st June 2024	2 days	ARAI Academy
EV Motor Design	4 th – 5 th July 2024	2 days	ARAI Academy
Automotive Lighting	18 th – 19 th July 2024	2 days	ARAI Academy
Thermal Runaway for EV Batteries	26 th July 2024	1 day	ARAI Academy
EMC for Automotive Application	1 st – 2 nd August 2024	2 days	ARAI Academy
Electric Vehicle Technology	8 th – 9 th August 2024	2 days	ARAI Academy
Testing of Seating Systems	23 rd August 2024	1 day	ARAI Academy
EV Powertrain	2 nd September 2024	1 day	ARAI Academy
Hybrid Electric Vehicles	19 th – 20 th September 24	2 days	ARAI Academy
AI/ ML for Engineering Application	26 th – 27 th September 24	2 days	ARAI Academy
EV Battery Technology and Circular Economy (Online 12 hrs)	3 rd – 4 th October 24	2 days	ARAI Academy
High Voltage Safety for Electric Vehicles	17 th – 18 th October 2024	2 days	ARAI Academy
EV Testing & Certification	14 th – 15 th November 24	2 days	ARAI Academy
Crash Safety	21 st – 22 nd November 24	2 days	ARAI Academy
Vehicle Dynamics	5 th – 6 th December 2024	2 days	ARAI Academy
Automotive Testing & Certification	19 th - 20 th December 2024	2 days	ARAI Academy
Electric Vehicle - NVH	9 th – 10 th January 2025	2 days	ARAI Academy

Battery & BMS of Electric Vehicle	23 rd – 24 th January 2025	2 days	ARAI Academy
Fuel Cell	7 th February 2025	1 day	ARAI Academy
Automotive Embedded System	6 th - 7 th March 2025	2 days	ARAI Academy
PROFICIENCY IMPROVEMENT PROGRAMMES (PIPs) TO BE PLANNED			
Latest Trends in After Treatment Systems	To be decided	1 day	ARAI Academy
Tyres	To be decided	1 day	ARAI Academy
Electric Vehicles Batteries and Energy Storage Systems	To be decided	1 day	ARAI Academy
Failure Analysis (including Auto & Engine components)	To be decided	2 days	ARAI Academy
Engine Technology	To be decided	2 days	ARAI Academy
Engine Design & Development	To be decided	2 days	ARAI Academy
Alcohol Mobility	To be decided	1 day	ARAI Academy
Automotive Aerodynamics and Styling	To be decided	2 days	ARAI Academy
Automotive Research & Development	To be decided	2 days	ARAI Academy
Automotive Sensors & Actuators	To be decided	2 days	ARAI Academy
ECU & Diagnostics	To be decided	2 days	ARAI Academy
Flex Fuel Vehicle	To be decided	1 day	ARAI Academy
‘3Q’ Success Mindset for ‘10X’ Leadership	To be decided	2 days	ARAI Academy
Automotive Product Design and Development	To be decided	2 days	ARAI Academy
Emission Control & Aftertreatment Devices	To be decided	2 days	ARAI Academy
Advance Automotive Technology	To be decided	2 days	ARAI Academy
Vehicle Body Engineering	To be decided	2 days	ARAI Academy
Dual Fuel Technology for Automotive and Genset Applications	To be decided	1 day	ARAI Academy

Concept in Advanced Driver Assistance System (ADAS)	To be decided	2 days	ARAI Academy
Engine Testing & Certification	To be decided	2 days	ARAI Academy
Powertrain Technology	To be decided	2 days	ARAI Academy
Automotive Transmission Design (including EV Powertrain & DVP)	To be decided	2 days	ARAI Academy
Hydrogen Powering Tomorrow: IC Engine Innovations	To be decided	2 days	ARAI Academy
ONLINE PROGRAMMES			
Automotive Engineering	To be decided	One month	Online
Hybrid Electric Vehicle (xEV)	To be decided	One month	Online
DOMAIN TRAINING PROGRAMMES (DTPs)			
Engine Design & Development	BSVI Regulations		
Engine Testing & Certification	Automotive NVH		
Automotive / Vehicle Testing & Certification	Automotive Engineering		
Fundamentals of Automotive Electricals and Electronics	Testing of Seating Systems		
Engine Performance & Troubleshooting	Automotive Transmission		
Electric Vehicle	EV / HEV Technology		
New Automotive Technology	Engine Technology		
EV Products and Technologies	Vehicle & Engine Testing		

e-PROFICIENCY IMPROVEMENT PROGRAMMES (ePIPs) <i>(Internet based - Anytime, anywhere)</i>			
Title of ePIP	Duration	Fees (Rs) Corporate (Individual) <i>GST Extra</i>	Fees (Rs) Corporate - Bulk Licenses (minimum 15 per corporate) <i>GST Extra</i>
Reliability Engineering	Course access- 60 days Course time – 5 hrs.	7000	50000
Engine Electronics and Management System (EEMS) Jointly with RBEI	Course access–60 days Course time – 15 hrs.	20000	150000
Fuel Cell Technology	Course access- 60 days Course time – 2 hrs.	3000	20000
Real Driving Emission	Course access- 60 days Course time – 5 hrs.	7000	50000
Emission Type Approval (BS-VI): 2 Wheeled Vehicles	Course access- 60 days Course time – 2 hrs.	4000	30000
Emission Type Approval (BS-VI): 3 Wheeled Vehicles	Course access- 60 days Course time – 2 hrs.	4000	30000
Emission Type Approval (BS-VI): Light Duty Vehicles	Course access- 60 days Course time – 2 hrs.	4000	30000
Selective Catalytic Reduction (SCR)	Course access- 60 days Course time – 2 hrs.	4000	30000
Combustion in IC Engines	Course access- 60 days Course time – 1.5 hrs.	3000	22500
Emission Measurement Techniques	Course access- 60 days Course time – 1 hr.	2000	15000
HC/CO Emission Formation	Course access- 60 days Course time – 1.5 hrs.	3000	22500
NO _x Emission Formation	Course access- 60 days Course time – 1 hr.	2000	15000
PM Emission Formation	Course access- 60 days Course time – 2 hrs.	4000	30000
Diesel Particulate Filter	Course access- 60 days Course time – 2 hrs.	4000	30000
Hybrid Electric Vehicles Architecture	Course access- 60 days Course time – 2.5 hrs.	5000	50000

Note: ARAI reserves the rights to change the dates, schedule, contents, speakers, venue, etc. for the programme without any notice.

For further information & registration of Training Programmes,
please contact Mr. Rajesh Patil, Dy. General Manager, ARAI Academy
at +91 2135-630790 /91/ 95 or +91 2135-396690/91/95 or
email: patil.pga@araiindia.com; training.pga@araiindia.com;

ARAI: The Automotive Research Association of India, S.No.102, Vetar Hill, Off Paud Road, Kothrud, Pune-411 038.

ARAI Academy: ARAI Forging Industry Division, Plot No. B-16/1, MIDC, Chakan, Taluka Khed, Pune-410 501.

Websites: www.araiindia.com & <https://academy.araiindia.com>

E-LEARNING ONLINE COURSES (e-PIPs)

Highlight


- ✓ Latest and up-to-date content
- ✓ Highly interactive, engaging and effective
- ✓ Real-life industry examples
- ✓ Hands-on practice in virtual environment
- ✓ Pre and Post assessments to assess learner's knowledge
- ✓ Certificate on passing the Final Assessment

Benefits:


- ✓ All online courses are flexible in nature i.e. 24 x 7 operational
- ✓ Easy to monitor learner's activity to know their course current status
- ✓ Very engaging which improves learner's knowledge absorption and retention
- ✓ Revisit topics instantly and at your own pace
- ✓ Certificate which help learner's for their career advancement




Reliability Engineering
Course Seat Time: 5 Hours



Combustion in IC Engines
Course Seat Time: 1.5 Hours



Engine Electronics & Management Systems (EEMS)
Course Seat Time: 15 Hours



Emission Measurement Techniques
Course Seat Time: 1 Hour



Fuel Cell Technology
Course Seat Time: 2 Hours




HC/CO Emission Formation
Course Seat Time: 1.5 Hours




Real Driving Emissions (RDE)
Course Seat Time: 5 Hours



NO_x Emission Formation
Course Seat Time: 1 Hour



**Emission Type Approval (incl. BS-VI):
2, 3, 4 Wheeled Vehicles**
Course Seat Time: 2 Hours each



PM Emission Formation
Course Seat Time: 2 Hours



Selective Catalytic Reduction (SCR)
Course Seat Time: 2 Hours



Diesel Particulate Filter
Course Seat Time: 2 Hours



Hybrid Electric Vehicles Architecture
Course Seat Time: 2.5 Hours

Contact Information:
Mr. Aatmesh Jain,
Deputy Manager, ARAI Academy

Contact No.:
02135-396675/92/95

Email:
epip.pga@araiindia.com,
jain.pga@araiindia.com,
training.pga@araiindia.com

Website:
www.araiindia.com,
https://academy.araiindia.com,
https://elearning.araiindia.com

Dr. Sanjay Patil, General Manager, ARAI Academy, ARAI, Pune (sapatil.pga@araiindia.com)

ARAI Kothrud: The Automotive Research Association of India, S. No.102, Vetal Hill, Off Paud Road, Kothrud, Pune - 411 038.

ARAI HTC: Plot No. E1/1, MIDC Chakan Phase - III, Pune - 410 501. ARAI FID: B-16/1, MIDC, Chakan, Mahalunge Ingale, Maharashtra, Pune - 410 501.

ARAI ACADEMY
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