



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
Concept in Advanced Driver Assistance System (ADAS)	30 th - 31 st October 2023	2 days	ARAI Academy
Automotive EMI/ EMC	6 th - 7 th November 2023	2 days	ARAI Academy
Engine Testing & Certification	23 rd - 24 th November 2023	2 days	ARAI Academy
Real Driving Emissions (RDE)	28 th November 2023	1 day	ARAI Academy
High Voltage Safety for Electric Vehicles	28 th - 30 th November 2023	3 days	ARAI Academy
Automotive NVH	29 th - 30 th November 2023	2 days	ARAI Academy
Benchmarking – An engineered Approach	4 th December 2023	1 day	ARAI Academy
Advanced Powertrain Technology	14 th – 15 th December 2023	2 days	ARAI Academy
Fuel Cell	8 th January 2024	1 day	ARAI Academy
Electric Vehicle - NVH	8 th - 9 th February 2024	2 days	ARAI Academy

IC Engine Combustion Technologies	15 th – 16 th February 2024	2 days	ARAI Academy			
Innovation Techniques & Inventive Methodologies	22 nd - 23 rd February 2024	2 days	ARAI Academy			
Battery & BMS of Electric Vehicle	7 th – 8 th March 2024	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			
Automotive Lighting	To be decided	2 days	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			
Testing of Seating System	To be decided	1 day	ARAI Academy			
Engine Design & Development	To be decided	2 days	ARAI Academy			
Hybrid Electric Vehicles	To be decided	2 days	ARAI Academy			
Automotive Embedded System	To be decided	3 days	ARAI Academy			
Engine Anatomy	To be decided	2 days	ARAI Academy			
Crash Safety	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			
Vehicle Dynamics	To be decided	2 days	ARAI Academy			
'3Q' Success Mindset for '10X' Leadership	To be decided	2 days	ARAI Academy			
Fundamental of Automotive Electricals & Electronics	To be decided	2 days	ARAI Academy			
Modeling & Simulation of EV by using MATLAB- Simulink	To be decided	2 days	ARAI Academy			

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Automotive Product Design and Development	To be decided	2 days	ARAI Academy		
Electric Vehicle Technology	To be decided	2 days	ARAI Academy		
Emission Control & Aftertreatment Devices	To be decided	To be decided 2 days			
			Academy		
Automotive Testing & Certification	To be decided	2 days	ARAI Academy		
Advance Automotive Technology	To be decided 2 days		ARAI Academy		
Fundamentals of Automotive Transmission Design	To be decided 2 days		ARAI Academy		
Vehicle Body Engineering	To be decided 2 days		ARAI Academy		
Thermal Runaway for EV Batteries	To be decided	1 day	ARAI Academy		
Dual Fuel Technology for Automotive and Genset Applications	To be decided	1 day	ARAI Academy		
BNCAP	To be decided	1 day	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				
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e-PROFICIENCY IMPROVEMENT PROGRAMMES (ePIPs) (Internet based - Anytime, anywhere)					
Title of ePIP	Duration	Fees (Rs) Corporate (Individual) GST Extra	Fees (Rs) Corporate - Bulk Licenses (minimum 15 per corporate) GST Extra		
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, Vetal 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)

ARAI

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
- \checkmark 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



BOSCI 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_v 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



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> ARAI ACADEMY Excellence in Education

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