

SPEAKERS



Mr. Krishnat Patil is General Manager, Product Safety, Standards and Compliance for India, Sub-Sahara and South Asia market at John Deere. He has done his Bachelors in Mechanical Engineering from College of Engineering Pune (COEP) and Post Graduation in Business Management from Symbiosis. He possesses over 19 years of industry experience in the area of Product Design, Customer Support, Program Management, Product Compliance and leadership. Mr. Krishnat provides expertise in the area of product design and development for On road and Off-road automobile industry.



Mr. Karthik Kaliappan is Sr. Product Safety, Standard and Compliance engineer for India, Sub-Sahara, China and South Asia market at John Deere Construction and Forestry Division. He is done his Bachelor in Mechanical Engineering from (Kongu Engg. College) Bharathiyar University, Coimbatore. He possesses more than 14 years of industry experience in area of Product design, Standards, Product Safety, Testing and homologation for Off-highway machinery.



One Day Workshop on
**Off-Highway Machinery -
Standards & Regulations**

at **ARAI, Kothrud, Pune.**
(The Automotive Research Association of India)

20th March 2017

REGISTRATION FORM

Name, Designation, Dept., Office No., Mobile No. & Email ID :		SAE Membership No. (if applicable)
Delegate - 1		
Delegate - 2		
Delegate - 3		
Company Name & Address		
Co-ordinator's Name, Designation, Contact No., Email ID		
100% Advance Payment Details		

Please fax/email/post duly filled-in registration form on or before 15th March 2017 to :
Dr. K. C. Vora, Sr. Dy. Director & Head, ARAI Academy & Co-ordinator, SAEINDIA Western Section.
Address : ARAI Post Box 832, Pune 411004
Courier Address : S. No. 102, Vetal Hill, Off Paud Road, Kothrud, Pune 411038
Tel : 0 9922277224 / 0 9552576575 Fax: 020-3023 1104.
Email: saeiws@saeindia.org or training.pga@araiindia.com



2015



2011

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Jointly Organised by



BACKGROUND & OBJECTIVES

Today Indian Off-highway industry is above 2 Billion USD which is more than 60,000 machineries per annum. There has been significant increase in infrastructure development, road development and mining sectors across country. India has huge demand for off-Highway machinery with improved design and productive machinery. Indian off-highway industry wants to remain competent with Global market. Due to continuous change in global norms, technology advancement, safety, environmental & emission control the standards and regulations related to off-highway industry products are changing at much faster pace than ever. The knowledge of standards and regulations play key role in making products successful in the market.

This training has been arranged from industry experts to provide an deep dive learning on global regulations and standards which are followed by the off-highway industry across the globe.

INTENDED LEARNING OUTCOMES

This workshop will highlight the standards in Off-highway machinery. By attending this workshop the participant would have knowledge about :

- Around 100 plus standards would be covered briefly
 - Indian & Global Standards
 - Current and Future Emission regulations for Off-Highway sector of various countries
 - International Standards for Off-Highway Machinery.
 - Machinery covered
 - a. Backhoe Loader b. Wheel Loader
 - c. Skid Steer Loader d. Excavator
 - e. Dozer f. Motor Grader g. Roller
 - Test methods relating to safety and machine performance (e.g Ground speed, Volumetric rating, Retrieval device , Lift capacity)
 - Safety, ergonomics and general requirements-(e.g Braking, Steering, ROPS, FOPS, TOPS, OPS, Horn, Access system, Operator station design, Seat and seat belt, Controls)
 - Machine characteristics, electrical and electronic systems, operation and maintenance (e.g Display, Operator manuals, PIN numbering ,Coupler and basic on EMI/EMC)
- Terminology, commercial nomenclature, classification and ratings(e.g Machinery terminology, specification)

PROGRAMME

Day One

- 09:00 - Registration
- 09:30 - Welcome and Introduction
- 10:00 - Overview on India and Global Regulations
- 11:00 - Tea Break
- 11:15 - Overview on International standards and Off - Highway Machinery
- 13:00 - Lunch
- 14:00 - Overview on International Standards for Off-Highway Machinery
- 15:00 - Tea Break
- 15:15 - Overview on India and Global Emission Regulation & Future Trends
- 16:45 - Valedictory Function

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



ARAI , Pune



SAEINDIA Western Section, Wakad, Pune

WHO SHOULD ATTEND ?

- Product Design Engineers from Off-Highway Industry
- Project Managers and Technical Project Leaders responsible for Off Highway Industry.
- Professional from Quality Control Department
- Engineering Design / Consulting companies
- Product Homologation Engineers in Off-Highway Industry
- Teaching professionals or Students with interest in Off Highway Industry

REGISTRATION FEES

Category	Registration Fees (Rs.) (per participant)	Total Fees including Tax of 15% (Rs.)* (per participant)
SAE Member	3,500	4,025
Non SAE Member	5,000	5,750
SAE Faculty Member	1,500	1,725
Non SAE Faculty Member	3,000	3,450
SAE Student Member	500	575
Non SAE Student Member	1,000	1,150

*Service Tax is as applicable at the time of program.

Registration fees include:

- Breakfast
- Lunch
- Delegate Kit

MODE OF PAYMENT

At Par / Multicity cheque or demand draft in favour of
The Automotive Research Association of India
payable at Pune.

ARAI, over five decades, has provided its design and development expertise to the Indian automotive industry, focusing on the testing and evaluation of components and systems to meet national and international standards. ARAI strives to achieve international recognition in these areas. In keeping with the globalization of economy and business, ARAI continues to enlarge its scope of services to meet the requirements of automotive industries around the world. 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 classified into three divisions:

LEARNING CENTRE

TRAINING CENTRE

KNOWLEDGE CENTRE

For more information please visit www.araiindia.com

The Society of Automotive Engineers India (SAEINDIA), Western Section, Pune, is a vibrant premier professional society, having substantial following in the Indian automobile industry, involved in serving the Mobility Engineering Community engaged in design, manufacture and service of self-propelled vehicles and systems that move in land, sea, air and space. Its vision is to continuously

enrich knowledge base of practitioners in mobility industry and institutions in the service of humanity. SAEINDIA is India's leading resource for mobility technology. As an individual member driven society of mobility practitioners, the ownership of SAEINDIA wrests with its members who are Individuals from the mobility community, which includes Engineers Executives from Industry, Government Officials, Academics and Students.

Following are the current activities of SAEINDIA for different categories of members:

Engineers & Business Executives: Mobility Congress, SIAT, Workshops, Seminars, Conferences, Eminent Speakers Series, Tech-Talk series etc.

Engineering Student Members: BAJA, SUPRA, Effi-cycle, Annual Socials, Project Competition, Collegiate Club Activities, etc..

School Children : AWIM (A World In Motion)

SAEINDIA is a Platform where all Engineers & Officers from Automotive Industries network with each other, share their ideas, improving technical knowledge and thereby build strong relations. This also helps them in their managerial roles in their respective fields and industry.

For more information please visit www.saeindia.org.