

SPEAKERS



Mr. Pradeep Lahane : He is a mechanical engineer and currently heads the India NPD School-Delhi, a new start up for building skill and competencies in the area of Innovation, Technology and new Product Development for Business sustainability with growth. He has gone through most of the key functions for the business including R&D, Product planning, Quality, Supply chain, and aftermarket supports for 20 years. Also got opportunity for to be trained in Europe and Japan. He joined CII-TQM division in 1990 and made many first in the field of TQM & Quality for Organizations improvement journey in India. While at CII he led Industry missions to Japan, Europe and in India. He was heading TQMI, a private Quality consulting company as President and was heading its Indian and overseas operations till 2014. He is involved with many Indian companies for their journey for achieving Deming Prize for business improvements.

From 2000 onwards, he is involved deeply into new product development / New Technology Development/ New Product Introduction -and its related tools and techniques for adoption in India. He has supported a large numbers of Auto-OEMs & their Supplier base for improvement journey for Product & Process. He is fortunate to have worked with eminent JUSE professors like Prof. H. Kume, Prof. Dr. Kano, Prof. Washio and others.



Mr. Dharendra Kumar Dubey : He is a mechanical engineer from IIT (BHU, Varanasi) with a 30 Years of hands on experience on Lean Transformation, Six Sigma Quality, World Class Manufacturing and Total Organisational Quality Enhancement. Presently at Lean Transformation Consultancy, he is helping companies in India and overseas, for dissemination of lean thinking in every sector of the economy. Mentored by great lean sensei Jim Womack and John Shook, he had published international papers on "Customer Value Management" and "How to make six sigma work for you". To promote lean thinking, across India, he had pioneered to publish the best lean publications of Lean Global Network in India. A Master Black Belt in Six Sigma, he was instrumental to customize the Motorola University workshops to suit Indian environment. Having done Gemba Walk with Jim Womack and John Shook, he had done Gemba Walk at Toyota Plants in Japan and India to understand the DNA of lean.

He had coached clients in almost every sector- engineering, automobile, multi-brand vehicle servicing, white goods and brown goods, information technology, safety & risk management, His work at key Auto-OEMs in India had resulted into significant reduction in delivered defect density and turnaround time across its Product & services. Guided key suppliers for Tata Nano Car project to ensure parts designing and manufacturing to the target cost- meeting quality and reliability goals. Upgrading Auto OEM's, building team capability throughout the supply chain for adoption of 3P & associated tools has been one of the key strength areas of his working.



4 Day Proficiency Improvement Program on 3P (Production Preparation Process) including FMEA

(Based on Gemba, Group Exercises & Hands-on)

Group exercise (4-5 members) on Company Problem

Methodology : Touch & Feel, Review, Experience and Brain Storming

4 Day Proficiency Improvement Program on 3P (Production Preparation Process) including FMEA
(Based on Gemba, Group Exercises & Hands-on) at ARAI-Forging Industry Division

from 25th to 28th April 2017 (Tuesday to Friday)

REGISTRATION FORM

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

Please email/post duly filled-in registration form on or before 11th April 2017 to :

Dr. K. C. Vora, Sr. Dy. Director & Head, ARAI Academy
ARAI-Forging Industry Division, Chakan, B-16/1, MIDC Chakan, Taluka Khed, Dist Pune 410 501 (INDIA),
Contact No : (02135) 396 660, 61 & 66 or 25 9595; 25 9042 / 44
Email : nadeshmukh.fid@araiindia.com; sakle.fid@araiindia.com; training.fid@araiindia.com



at
ARAI-Forging Industry Division,
(The Automotive Research Association of India)
Plot No.B-16/1, MIDC, Chakan, Taluka: Khed, Dist: Pune 410 501.
from 25th to 28th April 2017 (Tuesday to Friday)

Jointly Organized by



BACKGROUND & OBJECTIVES

Production Preparation Process (3P) integrated with Failure Mode and Effect Analysis, is a unique methodology based on deep research of Toyota Production System. This is an advanced lean concept based of Gemba & engagement of the people close to the product. The approach is found highly effective on new and existing products and processes. Most widely used for failure free New Production Introduction & Quick ramp-up exercises.

“Failure-prevention Teams” and “Kaizen-Teams” are used after the Production Preparation Phase, to improve deficits in quality and processes. The scope of “failure” is extended and “Failure Mode and Effect Analysis” (FMEA) follows and gets re-verified and made more impactful, which is normally found weak in most organizations. During initial production runs, production lines do get optimized by continuous improvements to increase quality and productivity, but still leaves lot of potential for improvement. 3P process closes the gaps and takes product to a much higher level of Quality & Reliability, reducing the cost at the same time.

One of the goals for 3P-Workshop is to maximize quality and minimize waste. 3P is also a great process for searching of simplification.

During 3P Workshop the product and components are examined comprehensively with respect to customer experience in the market, Internal customers failures as well as difficulties faced during the life cycle of the product component manufacturing, sub-assembly, assembly, testing, validation, packaging, handling, storage, transportation, retailing, servicing, use and disposition.

3P process brings out all stored knowledge and generates large pool of issues for Kaizen through touch and feel of the product aided by review against the specifications, individual experiences and brainstorming.

Each problem gets divided into three distinct categories for improvement relating to:

- Design
- Process
- Execution

In total, there are 15 steps for the workshop. 4 steps are preparatory for the workshop and 11 steps are completed during the workshop by the participants under guided supervision of the faculty. Post workshop Gemba can be organized to review the effective implementation of the planned improvements.

INTENDED LEARNING OUTCOMES

On the completion of program, participants will be able to implement techniques & standard practices related to their work and will be able to:

- Understand how to maximize quality & minimize waste.
- Understand Lean 3P principles to be competitive in market.
- Understand use of simple Quality tools to design product-process, right at first time & every time.
- Decide the priority for taking actions to minimize waste/risks/mistakes, etc.
- Know the important Production Preparation Planning.
- Demonstrate power of cross functional group working & value additions from each of the function of the company.
- First hand feel of what is possible to adopt & what precautions needed to be taken for adoption for working in Indian working environment,
- How to guide Production Preparation teams in your organisation,
- Become self-disciplined self-motivated, demonstrating personal responsibility in the pursuit of studies and professional practice.

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

PRE-WORKSHOP ACTIVITY

Selection of the Part and Scope; Formation of 3 P Team; Analysis of failures across the Supply Chain, specific to the part in scope; Display of components, sub-assemblies, assembly along with its drawing, specifications, standards on table around a big room. So that all team members can walk around one by one and touch and feel the part and look at the drawings and specifications.

PROGRAMME

Day One

- 09.00 – Registration & Breakfast
- 09.30 – Selection of Part, scope and Display of Part & documents
- 13.15 – Lunch
- 14.15 – Concept origin; Purpose & key steps; Team selection;
- 17.00 – Q&A and Conclusion

Day Two

- 09.00 – Breakfast
- 09.30 – Case study example; and Gemba visit preparation; Part study; and Process making and study
- 13.15 – Lunch
- 14.30 – Collecting list of issues; Discussion on failure modes; and Presentation of findings by team
- 17.00 – Q&A and Conclusion

Day Three

- 09.00 – Breakfast
- 09.30 – Case study example; and Gemba visit preparation; Part study; and Process making and study
- 13.15 – Lunch
- 14.00 – Making issue inventory; Understanding control
- 17.00 – Q&A and Conclusion

Day Four

- 09.00 – Breakfast
- 09.30 – Discussion & focusing of solution; Conducting P-FMEA; and Selection of best solution
- 13.15 – Lunch
- 14.00 – Revise PFD; Revise p-FMEA and List Projects & tasks
- 16.30 – Written Test (MCQ type)
- 17.00 – Q&A and Conclusion



WHO SHOULD ATTEND ?

This workshop is useful for all industry professionals, who needs to have comprehensive understanding of Production Preparation Process and all the associated tools from Quality and responsible to improve product & process.

- A group of participants, 4 to 5 selected from a “Cross Functional Team Consisting of planning, industrial engineering, development, Supply chain, production, quality assurance, & Warranty. Working group close to the product & processes should attend.

Also suitable for working professionals in the area of:

- Working in in a techno commercial activities.
- Small and Medium Scale Entrepreneurs (Tier1, Tier2, & Component manufacturers).
- Academicians & researchers from Institutions.
- Interested engineers, managers & executives.

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 has embarked upon a programme of building up human resources by commencing educational programme (Graduate, Post graduate & Doctoral) with specialization in Automotive Engineering. It has tied up with VIT University (Vellore), Veltech University (Chennai), College of Engineering (Pune), Christ University (Bangalore), University of Alabama (USA), Tennessee Tech University (USA), Loughborough University (UK) and University of Braunschweig (Germany).

TRAINING CENTRE, In line with Post Graduate and Doctoral Programs conducted by various universities abroad, ARAI Academy has devised various Proficiency Improvement Programmes (PIPs), to be taught by ARAI, Academia & Industry Experts. PIP gives engineers, faculty and student’s knowledge and technical expertise in a wide range of automotive disciplines. It helps in understanding system’s view point for automotive design and manufacture, with specific skills in formulating automotive engineering solutions in terms of their function and performance, through optional modules.

REGISTRATION FEES

Category	Registration Fees (Rs.) (per participant)	Total Fees including Tax of 15% (Rs.)* (per participant)
Engineers & Professionals	30000.00	34500.00

*Service Tax is as applicable at the time of program.
 Registration fees include:

- Breakfast
- Lunch
- Delegate Kit

Based on the present system in universities, credits are proposed for each module, so that the graduate engineers can attend various modules and sum-up the credits required for Master’s or Doctoral Programs. Participants also get chance to visit related laboratories of ARAI and get hands on experience. Certificates are issued on the basis of attendance & written test conducted at the end of the programme. We also conduct Training Programmes through WEBEX and Domain Training Programmes for Automotive Industry.

KNOWLEDGE CENTRE It has collection of around 23,000 books, standards, project reports, seminar/conference proceedings and around 75,000 SAE technical papers. It also has 237 eBooks. It subscribes to 40 national and international journals. It regularly publishes a monthly magazine ‘Automotive Abstracts’. It also conducts literature / patent search for customer’s projects.

Please visit www.araiindia.com for more information.

About India NPD School : About India NPD School: India NPD School started in 2015 at New Delhi with 5 decades of experience for building Product Planning & Development related knowledge, skill, & competencies in Indian companies. Its focus on Business growth & organizational transformation. It has successfully conducted training at France, Japan, UK and India and has assisted approx. 1000 companies. The school offers services in Assessment for R&D capability & capacity; Business & NPD relationship, and hand holding for NPD projects from opportunity scoping to concept development till commercialization to lifecycle monitoring.