

# **DESIGN OF EXPERIMENT (DOE using Shainin Techniques)**

Date: 18 to 19 March, 2025

Venue: IMTMA Technology Centre, Gurugram

### INTRODUCTION

The purpose of this course is to create awareness of Shainin's techniques of Design of experiment and application of these techniques for improvement in quality and productivity.

This course along with Systematic Problem Solving using 7 QC tools make the participants competent to solve even the complex problems. Systematic Problem Solving using 7 QC tools is separately offered.

If problems are analyzed in right and systematic manner, repeatability of problems can be avoided to a large extent. Keeping this in view, Indian Machine Tool Manufacturers' Association (IMTMA) is organizing a 2 day interactive programme on Design of Experiment (DOE using Shanin Techniques).

The programme will focus on various elements of DOE proven well in automotive industries which can be applied in non- automotive industries as well. The Trainer shares his rich global experience in the domain and will be more interactive so that the delegates can get back with clarity on action plan which they can implement from the next day.

Group exercises and discussions carried out during the programme, will enable the delegates to relate and discuss the current challenges they are facing.

### **FOCUS AREAS**

- · Benefits from DOE
- Multi-vari Analysis
- Paired Comparison
- Process Parameter Search
- Full Factorial Analysis (additional tool)
- Component Search
- Variable Search
- B Vs C Analysis
- ANOVA Analysis (elementary)
- Q&A

#### **KEY TAKE AWAYS**

- Fact and data based problem analysis
- In depth understanding of Shainin Techniques • Use of appropriate DOE tool for problem analysis
- Structured approach of problem solving

## PARTICIPATION FEE

Rs. 10450/-+18% GST IMTMA Members/ Micro Companies/ Individuals/ Educational Institutions / Students/ IMTMA Non **Members/Others** 

**USD 415/-Overseas Participants** 

Group Concession: 10% for 3 to 5 and 20% for 6 and more delegates being nominated from the same company

### PARTICIPANT PROFILE

Individuals from the area of manufacturing, operations, quality, supplier quality, field quality and product / process engineering.

Relevant companies:

- Auto OEMs (SIAM)
- Auto ancillaries (ACMA)
- Die casting units ( ALUCAST)
- Pump manufacturers (IPMA) Aerospace manufacturers (SIATI)
- Defence & Railway Establishment (PSUs / OFBs)
- General Engineering (IEEMA / AIEMA)
- Other Capital goods manufacturing industries (ICEMA / AMMA-India / PPMAI)

### **FACULTY**

This programme will be conducted by Mr. Pankaj Aggarwal

Mr. Pankaj Aggarwal is a mechanical engineer and has over 34 years of total experience. His exceptional work & contribution was recognised by industries and he was awarded as one of the "Most Talented Training & Development Leaders" by World HRD Congress and CHRO Asia in year 2017.

He is an acclaimed professional corporate trainer, consultant, advisor, motivator, creative thinker and life coach. Before coming into this field he has worked for Eicher Tractors for 10 long years & for Motherson Sumi System Limited for around 3 years. For some time, he was also on the panel of CII Confederation of Indian Industries (CII).

He has trained, advised and counselled 5000+ professionals, students and people in general. His extensive experience in handling and grooming diversified audiences such as children, students, families, workers, workers union, junior, middle, senior and executive / leadership level professional lends a very practical orientation to his session. He believes in a practical approach with focus on fundamental building.

He is a versatile trainer who has conducted soft skill programs such as Leadership, IPR, Team Building, Train the Trainer, Creativity, Campus to Corporate etc and also the technical programs such as ISO 9001, lean manufacturing, Kaizen, 5-S, Quality Circle, War on waste, Value Engineering, SPC, MSA, FMEA, Systematic Problem Solving, DOE (Shanin Techniques), TRIZ etc. He is the author of the book, 'Structured Problem Solving'.

He has facilitated culture building, change management, resolution management-workmen conflicts, productivity, quality & service improvements, quality system developments, waste reduction and employee moral boosting in different organizations.

#### For Registration Contact Amarendu Debnath

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**Contact Address** 



REGISTRATION: Prior registration for participation is necessary. Number of participants is limited and will be accepted on 'First Come First Serve' basis. A Certificate of