Manufacturing Technology Training
An IMTMA initiative

Advanced Quality Tools
Date : 2 to 3 June, 2026
Venue : IMTMA Technology Centre, Pune

INTRODUCTION

The word Quality is used every now and then, in the office, at homes, during services like sales, purchase, marketing, Logistics or even during learning, teaching etc. OR in all walks of life, formal, informal, within the four walls, out on the streets, we utter this word “QUALITY” In short “Quality” is all pervading.

We expect quality product, services everywhere. So as, we have to deliver Quality product or services also.

To perform our duties, we must understand the level of quality expectations from our customers and for fulfilling the requirements, we must understand what is quality, how it is described, how it is maintained, how it is measured, how it is to be improved.

By the time, all of us must have understood the first level, i.e. QC Tools used in the industry.

Now, we are going to study Advance Quality Tools OR Management Quality Tools, such as, Affinity Diagram, Tree Diagram, Arrow Diagram, Process Decision Programme Chart, Matrix Diagram, Relations Diagram, and Matrix Data Analysis.

Also, we are going to get knowledge of Advanced Statistical Tools like,

- **DOE: -- Design Of Experiments**
- **RSM: - Response Surface measurement**
- **RA: -- Regression Analysis.**

FOCUS AREAS

- What is Quality? What is process? Understanding Input, Process and Output for any product and Services.
- Importance of Measurement.
- Recording Process Parameters – Record, History and Analysis.
- Proactive Tools and Reactive Tools to check Quality.
- Types of Seven QC Tools.
- Types of New Seven QC Tools.
- Why these are called as Management Tools.
- Tree Diagram, Affinity Diagram in details.
- Advanced Statistical Tools
- Areas of in which it can be applied.
- DOE in details.
- Advantages and Benefits.
- Limitations of usage
- Future of Quality Systems.

Exercises:

- Selection of Correct Tool. Oral as well as Written.
- Classification of Tools, Proactive and Reactive.
- Making Tree Diagram.
- Definitions of various terminology in DOE.
- Selection of right Examples.

KEY TAKE AWAYS

- Quality in life
- Classification of Quality Tools.
- DOE
- Roll of Quality and our Roll for Quality.

PARTICIPATION FEE

Rs. 4999/-
+18% GST
IMTMA Members/ Micro Companies/ Individuals/ Educational Institutions / Students/ IMTMA Non Members/ Others

USD 200/-
Overseas Participants

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

PARTICIPANT PROFILE

First line Supervisors/Engineers/Managers from Manufacturing functions – Production, Engineering, Quality, Maintenance, NPD, Business Excellence, Purchase, PPC, Logistics, Etc. Also, Freshers and GETS can be included.

FACULTY

This program is conducted by Mr. Ajay Tare,

Mr. Ajay Tare, is in the fields of Metals and Metallurgy, for the last 40 years and retired as COO from a very large Commercial Heat Treaters and handled positions as VP Operations, Sr. Manager, Operations Managers, QA Head in various prestigious companies like Bajaj Auto ltd, Mahindra and Mahindra Ltd, Eicher Good Earth Ltd, Nagpur Tools and Avdhoot Technocrats. His experience in all the portfolios of Metallurgical Engineering; R & D, Operations, Quality, Manufacturing Engineering, NPD, Business Excellence.

He is an Metallurgical Engineer from Nagpur and also completed Post Graduate Diploma in Quality Management, PGDQM, from prestigious Mahindra Institute of Quality. He is Six-Sigma Green Belt professional. On management side, he has successfully completed Harvard Manage Mentor, HMM, by HB School. Since he is a Industrial Trainer he has passed “Train the Trainer” by Dale Carnegie Training Centre.

A very versatile experience of processing all types of ferrous materials like Case Hardening Steels, HSS, HDS, HCHCr, Stainless Steels, Bearing Steels, Spring steels, Tool steels, Boron steels and non-ferrous materials like Aluminium, Copper, Brass, Bronz, Magnesium alloys.

He is well conversant with Processing of parts of defence, mining, earth moving equipment, automobile, tractor, Industry and their requirements.

Currently, he is associated with prestigious organisation for Training and Teaching and working as a “Professional Consultant” for many companies, including MNCs.

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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 participation will be issued to participants.
Important Information : Participation fee includes, course material, working lunch and tea / coffee. Interested companies are requested to register online by clicking on 'REGISTER' button and by filling up the nomination authority and participant's details in specified form.