



ADVANCED TOOLS & TECHNIQUES FOR QUALITY MANAGEMENT

Achieve operational excellence through
practical applications of tools and techniques

Program Overview

The "Advanced Tools & Techniques for Quality Management" Executive Education program delves into the core principles of Quality Management, emphasizing the strategic significance of quality in organizational success.



Program Modules

Module 1

- Introduction to Quality Management & Quality Costs
- 7 QC Tools including Control Charts (Variable & Attribute)

Module 2

- Advanced Control Charts (I-MR, Group & CUSUM)
- Quality Dashboards with Power BI
- Process Capability

Module 3

- TQM & SIX Sigma
- Quality Data Visualization with R

Who Should Attend

This program is ideal for mid to senior-level management professionals in Manufacturing & Services Industries such as Automobile, E&E, Pharma, Health Care etc.

Learning Outcomes

Upon completing this program, participants will attain advanced knowledge about:

- Quality Dimensions, Quality Costs & Quality Functions (Quality Planning, Quality Assurance, and Quality Control/Improvement)
- Practical sessions for 7 QC tools and Statistical Process Control through Variable and Attribute control charts, and Advanced Control Charts.
- Real-time Data visualization for Problem Identification and Productivity Enhancement
- Process Capability Ratios and Process Capability Analysis using Control Charts
- TQM for Continuous Improvements, Customer Satisfaction, and Operational Excellence. Six Sigma Projects with DMAIC
- Application of Inbuilt Functions and Libraries in R for Data Visualization

Faculty



Dr. Kavitha Gurrala
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