Manufacturing Technology Training
An IMTMA initiative

Statistical Process Control (SPC)
Date : 11 to 12 October, 2022
Time : 1340 Hrs to 1700 Hrs (Online Mode)

INTRODUCTION

Manufacturing companies today are facing ever-increasing competition. At the same time, raw material costs continue to increase. These are factors that companies, for the most part, cannot control. Therefore companies must concentrate on what they can control: their processes. Companies must strive for continuous improvement in quality, efficiency, and cost reduction. Many companies still rely only on inspection after production to detect quality issues. The SPC process is implemented to move a company from detection based to prevention-based quality controls. By monitoring the performance of a process in real time the operator can detect trends or changes in the process before they result in non-conforming product and scrap. **Statistical Process Control (SPC)** gives operators a tool to monitor stable processes and to identify when the process is going out of control due to special causes so that problems can be addressed before product quality is affected significantly.

Applying SPC on a company's processes provides meaningful insight into the process. For doing so one needs to learn SPC techniques and apply them. Data generation and analysis are key to delivering a lean manufacturing setup, thereby optimizing costs and maximizing profits to your organization.

Keeping this in view, IMTMA is organizing an online training of 6 hours on Statistical Process Control (SPC).

FOCUS AREAS

Statistical Process Control (SPC) gives operators a tool to monitor stable processes and to identify when the process is going out of control due to special causes so that problems can be addressed before product quality is affected.

- **Understanding of common and special causes variations**
- **QC Tools**
  - Run chart
  - Scatter Diagram
  - Mean & Range chart
  - Histogram
  - Normal Distribution & proof of normality
- **Machine and process capability**
- Application of control charts for variables
- **Application of control charts for attributes**
- Analysis of control charts

KEY TAKE AWAYS

- **Describe the purpose and uses of SPC**
- Gain a practical insight into the application of SPC techniques on the shop floor in order to carry out quality
- **Improvement projects in the organization**
- Determine the basic type of control chart to use
- **Collect data and construct basic control charts**
- Interpret control chart results

FEE PER PARTICIPANT (PER LOGIN)

Rs. 5500/-
+18% GST
IMTMA Members/ Micro Companies/ Individuals/ Educational Institutions / Students/ IMTMA Non Members/ Others

USD 220/-
Overseas Participants

Group Concession : 10% for 3 to 5 and 30% for 6 and more delegates being nominated from the same company

PARTICIPANT PROFILE

This course is ideal for those who are responsible for **product development, operations management, quality control, and engineering including department managers, supervisors, quality representatives, engineers, and administrative staff** who have a focus on business improvement, performance, and profitability.

FACULTY

This programme will be conducted by **Mr. Gautam Doshi, Consultant.**

Mr. Doshi is a B.Tech. (Mech) from IIT, Powai and an industry expert with over 45 years of experience in Machine Tool and Automotive industry. He has conducted several training programmes, seminars & workshops on machine tool related subjects. He is a consultant to reputed companies in the area of Productivity and Quality improvement and an Adviser to many companies manufacturing automotive components and Dies & Moulds. Mr Doshi is former Vice President & Technical Director, PMT Machine Tool Automatics Ltd., Pune and has also served in Tata Motors for over 5 years. He is the author of several IMTMA publications such as ‘First Time CNC’, Guidelines on Process Capability to name a few.

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REGISTRATION : Prior registration with an online advance payment is must. Number of participants is limited and will be accepted on ‘First Come First Serve’ basis. A Certificate of participation will be issued to participants.