



Training on Understanding Statistical Process Control

Course Duration: Two Days

Lead Faculty: Dr. R. R. LAKHE ,Director SQMS,
Ph.D. (Industrial Engineering) NITIE, B.E.(Mech), M.Tech.(Prod)., MBA,
Dip. Trg. & Dev., M.A.(Socio) (Pub.Adm.), Qualified ISO 9001QMS,
ISO 14001EMS,ISO-50001 EnMS& OHSAS18001 Lead Assessor,
Master Black Belt Six Sigma

INTRODUCTION

Statistical Process Control (SPC) is a standardizing technique used for steering a process in a desired direction, reducing variation, increasing knowledge about the process, assessing process capability and providing performance benchmarks.

This programme will cover all of the main elements of Statistical Process Control (SPC) and acts as an ideal introductory programme to the concepts and techniques. Delegates will review the key processes of SPC and will gain an understanding of how to manage the methodology to quantify and improve the performance of key processes throughout the organisation, to reduce cost, improve operational efficiency and increase customer confidence and satisfaction.

OBJECTIVES

The main objective of SPC is to ensure that the planned process output is achieved and the related customer requirements are fulfilled. In this process control, randomly some parts are taken from the manufacturing process

and then their characteristics are measured and shown on the control charts. Statistical indicators are determined from the measurements and used to evaluate the current status of the process. If required, the process is rectified with some appropriate actions.

COURSE CONTENT

Overall Business Objectives & Outcomes -

- * process focus
- * effect of process performance on process cost & customer satisfaction
- * management of processes not just outputs
- * implications of external standards e.g. ISO 9000 series & QS 9000.

Process Management Principles -

- * process definition
- * what to control
- * levels of control sensing before, during or after the event
- * measuring & interpreting
- * standards of performance

- * exploiting improvement opportunities
- * process ownership.

Overall Management Strategy for Implementation of SPC -

- * SPC role
- * control, performance, improvement
- * seven operational prerequisites
- * eight step implementation guidelines.

Role & Benefits of Principle Types of Control Charts -

- * Shewhart& CUSUM
- * measured data & attributes
- * key role, special -v- common cause variation
- * criteria for control
- * basis for standardised performance measurement
- * automatic test for significant improvement.

Measured Data Process -

- * choose appropriate control chart short term studies -v- ongoing monitoring
- * achieve stability
- * demonstrate process potential
- * capability & performance indices
- * minimum requirements
- * performance improvement
- * establish bench mark profiles.

Attribute Data Process -

- * establish conformance criteria
- * choose appropriate control chart
- * achieve stability
- * measure performance
- * improve performance.

CERTIFICATE

**Participants qualifying writtenexamination shall
beawardedcertificateof successful completionofthecourse.**

WHO SHOULD ATTEND

• Technical Managers • Quality Engineering Team • Quality Managers • Laboratory Personnel • Production Managers • Quality Management Consultant • Engineers • Quality Control Executives • Metrology/Standard room personnel • S.Q.C/ SPC Team Students from Engineering, Management, and Science Streams.

About us

Shreyas Quality Management System is a Consultancy Development Centre(CDC), Govt. of India Accredited, and IMS(ISO9001QMS,14001EMS & OHSAS18001)certified Training & Consultancy Organization focused on organizational performance improvement through the globally accepted tools such as ISO 9001, ISO14001 EMS, ISO5001EnMS,TS16949,NABL ISO 17025,ISO15189,ISO27001 ISMS,OHSAS 18001, SIX SIGMA, 5 S/Kaizen, TQM, quality costs, design of experiments(DOE) etc. It has helped manyorganizations both from manufacturing and service sectors to analyze and improve their performance through well-established systems. It has team members possessing a wide spectrum of professional qualifications, experience and expertise which could effectively and efficiently address improvement issues which are of importance to your business / organization. It has provided consultancy to more than 200 organizations both from manufacturing and service organizations for quality improvement.

Organised by-

SHREYAS QUALITY MANAGEMENT SYSTEM (SQMS)

(Consultancy Development Centre, Govt. of India Accredited, and IMS certified Training & Consultancy Organization)

Training & Consultancy for-

- Six Sigma, TQM - Quality Award, Quality Cost, TPM, SQC
 - ISO 9001QMS; ISO 14001 EMS, QS 9000, OHSAS 18001, ISO 27001 ISMS, ISO 50001 EnMS
 - ISO 17025/15189 (NABL Accreditation), NABH, HACCP, SEI-CMM,
- Reg. Office : 11, Tulsi Vihar, Third Floor, Abhyankar Nagar Main Road, Abhyankar Nagar Nagpur- 440010. Telefax: 0712-2240012;09822469560,
E-Mail: sqmslakhe@gmail.com ;info@sqmsindia.com Website: www.sqmsindia.com