

Essential Statistical Process Control (SPC)

Duration: 2 days

Course Overview

Dr. Walter A. Shewhart of Bell Telephone Laboratories developed the first control chart in the early 1920s. Since then Control charts have been used by industries worldwide as a mean for controlling and monitoring the stability of key process parameters. In recent years, the demand for the control charts as a process improvement tool has been tremendous, and it has become one of the core tools that need to be deployed in the organization that implements ISO/TS 16949 Quality Management System.

Objectives

To provide participants with:

- The understanding of the SPC concepts.
- The knowledge to develop variable and attribute control charts.
- The necessary competency in interpreting the control chart patterns.
- The concept and practical approach to process capability analysis (Ppk & Cpk).
- The framework of SPC deployment within an organization.
- The methodology of how to manage a successful SPC program within an organization.

Course Content

- Introduction to SPC
- Basic Statistical Concepts
- Data Collect Strategy
- Control Chart Analysis
- Variables Control Charts
- Attributes Control Charts
- Process Capability Analysis
- SPC Program Deployment

Benefits

The participants will benefit from this course on how:

- To assess objectively the stability of the manufacturing processes.
- To avoid over-adjustment to the process by using the information from the control charts.
- To calculate and assess the manufacturing process capability.
- To deploy SPC program effectively within an organization.

Mode of Delivery

The course is Tutor-led, classroom training.

Audience/Pre-requisites

This course is designed for front line managers, engineers, executives or supervisors who are involved in the development and implementation of statistical process control techniques as part of their quality assurance and improvement program, particularly within the ISO 9001 & TS16949 Standard's framework.