

SPC (Statistical Process Control)

Course Description:

This course provides a detailed introduction to Statistical Process Control, a statistical method of quality control that is used to monitor and control processes with the goal of maximizing production and minimizing waste. The role of statistical techniques (statistical process control, process capability analysis, etc.) as a foundation for continual improvement is explored. This course covers the requirements of the AIAG SPC Manual.

Learning Objectives:

Participants are encouraged to discuss and explore specific issues that they currently experience in applying SPC techniques. Through a combination of presentation, discussion and in-class exercises, participants will understand:

Day1:

- The relationship between continual improvement and SPC.
- The elements of an SPC System
 - Process Control Systems
 - Types of Variation
 - Local vs. System Actions
 - Control vs. Capability
- The Process Improvement Cycle
- Control Charts (General Concepts)
- SPC Implementation Considerations
- Basic Control Charts in Detail
 - Types of Control Charts
 - Variables and Attributes Control Charts
 - Control Chart Mechanics
 - Analyzing for Control and Identifying Out-of-Control Signals
 - Control Chart Formulae

Day 2:

- Control Charts for Individuals
- Overview of additional types of Control Charts
- Statistical Process Control for Short Production Runs
- Control Charts for Multiple Stream Processes
- SPC and Autocorrelated Data
- Understanding Process Capability and Process Performance

Cancellation Policy

An administration fee will be charged for cancellations less than 14 days prior to the course date. Substitutions will be permitted at any time. Course transfers may be made without penalty. The BRC reserves the right to cancel any seminar and will, in such event, fully refund all registration fees. No liability is assumed by the organizers for changes in seminar dates, content, speakers or venue.

Who Should Attend:

Individuals who will be responsible for participating in the inputs of their company's quality management system, such as Engineering and Manufacturing Managers/Coordinators, Quality Directors, Internal Auditors and staff inputting data into the system.

Location:

On-Site

Duration:

2 Days (16 hours)

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