

Statistical Process Control (SPC)



Training Duration : 2 Days

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Seminar Content

This two-day hands-on seminar is designed to provide participants with an understanding of the importance of SPC in controlling and improving the production process and to give students a practical knowledge of using statistical methods in analyzing the production and service processes.

An additional three-day class is available that covers Capability Analysis and SPC. This three-day hands-on seminar is designed to teach participants how to implement SPC within industries that have set up variation, slow and rapid tool wear, and continuous processes where adjustments occur on a daily basis. Emphasis on analysis of data and effects on the processes using eight types of control charts expands the users' ability to address non-normal, multivariate and unilateral variables.

Who Should Attend

This seminar is designed for individuals who have direct responsibility for defining and developing an organization's measuring, monitoring and analytical processes using data collection, charts and statistical tools appropriate for its products, processes and business goals and objectives.

Recommended Training and/or Experience

Fundamental knowledge of computational mathematics is recommended for understanding the topics discussed.

Seminar Materials

Each participant will receive a seminar manual and a workbook including all team breakout exercises.

Seminar Goals

- ❖ Present a hands-on approach to learning the principles and practices of SPC and process analysis
- ❖ Understand the uses and benefits of control charts and be able to construct and interpret them
- ❖ Understand the role that SPC plays in the overall control strategy for a process and/or company

Seminar Outline

- ❖ Introduction to Statistical Process Control
- ❖ Process Variation
- ❖ Normal Theory and Central Limit Theorem
- ❖ Visible Signs of Special Causes
- ❖ Other Types of Charts
- ❖ Process Capability
- ❖ Control Charts for Non-normal Processes

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