

Understanding the SPC Short Run Supplement (CQI-26)



Course Duration: 2 Days - 8 Hours/day

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Seminar Content

This two-day course on CQI-26 is designed to provide participants with a basic understanding of the role SPC contributes in small production run situations for controlling and improving the production process and to give students a practical knowledge of using statistical methods in analyzing the production and service processes.

This seminar is designed to understand the guideline developed to address the short run production situation identified in the SPC 2nd Edition Reference Manual issued by GM, Ford and FCA through the AIAG.

Learning Objectives

- Identify the different when and how to use SPC in short run situations.
- Explain the different types of short run control charts.
- How to utilize attribute charts for short runs
- Explain the relationship between the capability indices to determine process improvement actions.
- Explain the relationship between process control and process capability.

Seminar Outline

- SPC Background
- Process Fundamentals
- Prevention vs. Detection
- Process Variation

- Control vs. Capability
- Basic Statistics
- **Breakout Exercise 1: Analyzing Data**
- Normal Distribution
- Central Limit Theorem
- Short Run Control Charts with Equal Variances
- Chart - DNOM
- Chart - Target
- Short Run Control Charts with Unequal Variances
- Chart - Standardized
- Chart - Short Run
- **Breakout Exercise 2: Plotting Data**
- **Breakout Exercise 3: Control Limits for Control Charts**
- Basic Attribute Control Charts for Short Runs
- Characteristics of Attribute Charts
- Types of Attribute Charts
- Analyzing Control Charts
- Common Out-of-Detection Rules
- Patterns that Signal Out-of-Control
- **Breakout Exercise 4: Interpreting Control Charts**

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Who Should Attend

Individuals who have direct responsibility for defining and developing an organization's measuring, monitoring and analytical practices using data collection, charts and statistical tools appropriate for its products, processes and business goals and objectives. We will look for suitable statistical tools to identify the same sources of variation in our manufacturing or services and to control that variation.

Seminar Materials

Each participant will receive a seminar manual, including workbook and all team exercise materials.

Pre-Requisite

Participants should possess basic math skills and general understanding of SPC methodologies.

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