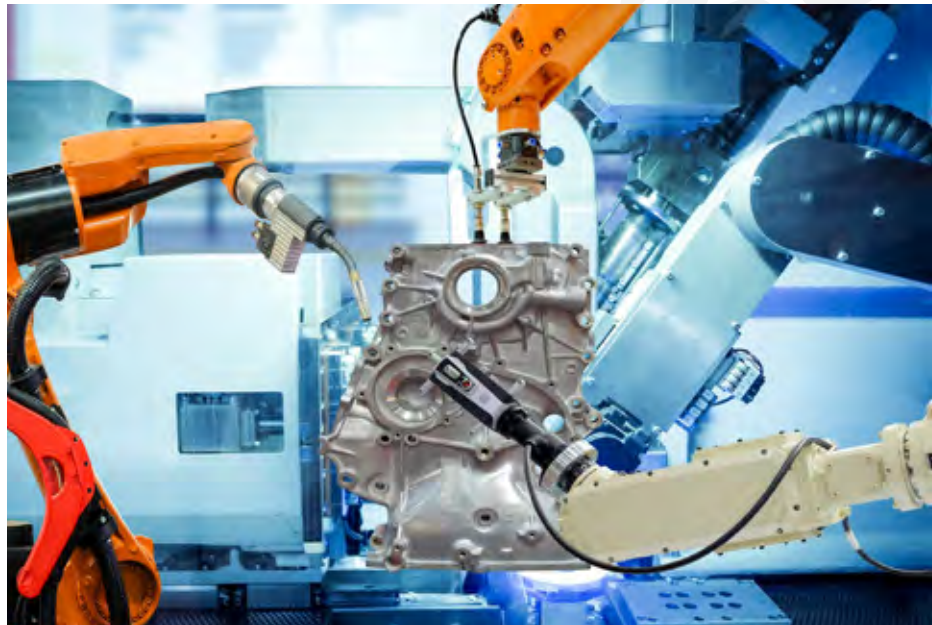


## Understanding the SPC Quick Start Guide (CQI-25)



Course Duration: 2 Days - 8 Hours/day

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# Understanding the SPC Quick Start Guide (CQI-25)

Course Duration: 2 Days

## Seminar Content

This one-day hands-on seminar of CQI-25 is intended to give attendees the basics in Statistical Process Control (SPC) and raise their subject matter knowledge to a proficiency level.

This course will illustrate the purpose of SPC and the key necessities for the application of SPC. The topics included are SPC pre-requisites, the most common control charts, control and improvement, and potential warning signs for further investigation.

## Learning Objectives

- Understand the building blocks of SPC.
- Provide examples and lessons learned for use in the hands-on application.
- Learn the fundamental tools and methods of SPC
- Understand the terminology and definitions used by SPC practitioners

## Seminar Outline

- Chapter 1: Introduction to SPC
- Section 1: Measurement System Robustness
- Section 2: Sample Data Collection Scheme
- Section 3: Ability to React in Realtime
- Chapter 2: Introduction to Control Charts
- Statistical Control
- Types of Control Charts
  - Basic Control Chart Elements

## ➤ Breakout Exercise 1: Analyzing Data

- Chapter 3: Basic Control Charts
- Chart
- Variable Data
- Attribute Data

## ➤ Breakout Exercise 2: Plotting Data

## ➤ Breakout Exercise 3: Control Limits for Control Charts

- Chapter 4: Further Investigation Signs
- Process Variation
- Control vs. Capability
- Normal Distribution

## ➤ Common Out-of-Detection Rules

## ➤ Patterns that Signal Out-of-Control

## ➤ Breakout Exercise 4: Interpreting Control Charts

## Who Should Attend

Team members that are not advanced practitioners of SPC but are focused on learning the basics to assist in preparation, implementation, and maintenance of processes using SPC.

## Seminar Materials

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

## Pre-Requisite

Basic aptitude in math, awareness of SPC as a process improvement technique, and different types of variations that can occur.

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