



Statistical Process Control (SPC) with Application Training

Statistical Process Control (SPC) with Application is a tool used to control quality and improve business success. During this course, participants will learn about the history of SPC, variation, control charts, run charts and a variety of statistical tools. Using real life examples participants will have a broad, basic understanding of the SPC tools used in the business world.

Agenda:

Day 1

- History of Statistical Process Control (SPC)
- Introduction to SPC
- Statistical Process Control for Variable Data
- Control Charts – Variable Data
- XBar-R: Average, Range Charts
- I-MR: Individual, Moving Range Charts
- Target I-MR Charts
- SPC Catapult Class Exercise
- Statistical Process Control for Attribute Data
- Control Charts – Attribute Data
- Implementation of one SPC Control Chart

Day 2

- Quick review of day 1
- SPC implementation guidelines reviewed
- Select Characteristic to Control based on root cause analyses
- Validate measuring system
- Check data for normality
- What is the capability and stability?
- Create chart
- Develop Sampling Plan
- Develop OCAP (Out of Control Action Plan)
- Workshop Participants: Between Day 1 and Day 2 will collect data and use Control Charts with notes on issues to be addressed during Day 3.

Day 3

- Quick review of day 2
- SPC implementation guidelines reviewed
- Select one more Characteristic to Control based on root cause analyses
- Validate measuring system
- Check data for normality
- What is the capability and stability?
- Create chart
- Develop Sampling Plan
- Develop OCAP (Out of Control Action Plan)