

Control Charts Workshop Details

Description

Explains how process behavior can be monitored for abnormalities, control charts for continuous data (X bar R, IMR) and discrete data (np, c, u, p) will be covered. Course will use MINITAB statistical software. Recommended Prerequisite Knowledge: Basic Statistics.

Duration - 8 hours.

Goal

Understand how control charts are created and how to interpret control charts for continuous and discrete data as well as how the charts relate to process performance.

Outline / Topics

Control Plans

- Methods and People
- Response or Input
- Variation

Use of Control Charts

- Single Value Process
- Multiple Value Process

Control Charts

- Concepts and Uses
- Continuous Data
- Discrete Data

Summary

- Control Charts/Plans
- Choosing a Chart

Results

Upon successful completion of the training, participants will have demonstrated the ability to:

1. Distinguish between specification limits and control limits and the importance of each to a process of interest.
2. Include Control Charts as a part of an overall control plan designed to keep a process in control.
3. Select, create and interpret the proper type of control chart for continuous data including X bar Chart, R Chart, I Chart and MR Chart.
4. Select, create and interpret the proper type of control chart for discrete data including u Chart, p Chart, c Chart and np Chart.
5. Understand the concept of special cause and common cause variation in a process's performance.
6. Distinguish between using control charts for process inputs and monitoring process outputs.