

STATISTICAL PROCESS CONTROL (SPC)

Using Minitab

Two-day workshop

1. Statistical Process Control (SPC)

SPC involves the collection and analysis of data in order to understand process behaviour, manage variation and control the process outcome. This 2-day course provides an introduction to basic and popular SPC techniques, using Minitab statistical software.

Lean Ireland consultants are experienced in the training and coaching of personnel, from a wide variety of sectors, in the use of Minitab for the statistical measurement, analysis and control of process problems.

2. Learning Objective and Deliverables

At the end of this workshop participants will be enabled to

- understand the principles and practices of good data collection and sampling
- understand the nature and causes of variation
- to apply techniques that manage variation
- have confidence in assessing and applying the methods used to measure and modify process behaviour.

The course is case study based. Lean Ireland will supply 5 laptops with Minitab, and personnel will work in pairs at each laptop.

3. Workshop agenda

Time	Day 1	Day 2
08:30	Introductions Descriptive statistics Introduction to variation Data collection Measurement system analysis - variable data	Control charts - attribute data Process capability analysis - intro
12:30	Lunch	Lunch
13.30	Control charts – intro Control charts – variable data	Process capability analysis - advanced Confidence intervals
16.30	Review & close	Review & close

The course agenda can be modified to suit the organization's needs.

4. Who should attend?

The course is designed for those who have a need to use statistical monitoring of processes in their everyday work e.g. engineers, team leads, lab analysts and sales personnel. A basic knowledge of statistics (e.g. normal distribution, standard deviation, histograms) is required to attend this course. The content can be modified to provide a more basic introduction, or a more advanced challenge. Lean Ireland will supply 4 laptops with Minitab, and personnel will work in pairs at each laptop. Apart from introductory presentations all exercises will use the client's process data.

5. Contact

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