SPC (Statistical Process Control)
Training Programme Outline

Summary: This programme provides underpinning knowledge and builds delegate confidence to apply SPC principles and tools at a working level enabling proactive and appropriate responses to process variation so as to drive continuous improvement in Quality, Cost and Efficiency.

Aimed at: Anyone involved at a working level in the design and operation of products or processes; and anyone involved in the implementation of Quality processes and tools.

Prior Qualifications/Experience: No specific qualifications or experience is necessary.

Duration: 1 day workshop with optional follow-up day to review and critique application of learning and to share best practice between delegates.

Format: Facilitated workshop with group activities to build understanding and confidence through case studies.

Software Specification: Minitab will be used to demonstrate the creation of Control Charts and it is advisable that delegates have access to Minitab during and after the programme. Alternative SPC software may be used by delegates'organisations and it may be possible to incorporate references to this – please contact us to discuss further.

Objectives: By the end of the programme, participants will be able to:

- Understand the purpose and value of Control Charts
- Understand how to select, set-up, interpret and manage Control Charts in their workplace
- Apply SPC in a team-based setting
- Deliver improvements in business KPIs as a direct result of applying SPC
- Identify opportunities for further improvement in business KPIs

Content

SPC Overview – History, principles, definition and value
Variation – Sources and types
Anatomy of a Control Chart
Rules for statistical Control
Using Control Charts – Deciding what to chart and collecting sufficient good quality data
Key Terms – including Data Types, Mean, Range and Sub-groups
Types of Control Chart – Selection, creation and interpretation
Control Charts for Capability Analysis
Control V Specification and taking appropriate actions
Ongoing management of SPC application

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