NEW CHEM VISION

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Statistical process control implementation

Description

Find out how SPC can be part of your integrated quality management system. Learn how to use charts that are in compliance with customer and (Quality, Environmental and OH&S standards). Roll up your sleeves for hands-on practice with SPC tools, including process capability indexes, normal probability distributions, and control charts for variables and attributes.

Who Should Attend?

QA managers, quality engineers, manufacturing engineers, technical warranty managers, chemists, quality analysts, CQI coordinators, quality auditors, quality technicians, and SPC coordinators.

Content

- Scientific Material (Hardcopy)
- Attendance Certificate from NCV

Language

Program #: GQP-0001

· Arabic / English

Learning Objectives

- · Understand how SPC integrates into the total quality system
- · Differentiate data reporting and SPC reporting
- Use charts in ways that are in compliance with customer and ISO 9000 requirements
- Select and use the best-suited control chart
- · Establish control chart limits
- · Establish rules for out of control occurrences
- · Demonstrate an understanding of troubleshooting using SPC
- · Recognize how SPC helps determine process capability
- Differentiate the implementation and management issues associated with SPC

Prerequisites

· Understanding of Basic Algebra

Training Place

Duration

• 2 Days

- In site training
- · As NCV schedule

Outcomes

- · Be aware of the aims, objectives and benefits of SPC
- Be aware of SPC techniques including; BS6001 and Sampling, Process Capability Studies, Use of Statistical Process Control Charts, Attribute Charts, Variable Charts
- Be aware of techniques such as Short Run SPC. Applicable to:
 - · small lot or batch sizes and
 - large runs or batch sizes, produced over short time period
- Identify the most appropriate SPC techniques to employ
- · Identify the need for implementing SPC
- · Understand the role of SPC in improving processes
- · Be capable of completing an SPC study
- · Coherently answer questions regarding SPC
- Provide the opportunity to make real major financial saving through QM&T's pre and post course supported assignment scheme
- Be QM&T validated and certificated Statistical Process Control practitioner



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Day 1:

- Basic Statistics
- SPC Foundations
- Use of data in business management
- What is SPC?
- Common terms
- Sampling
- Principles of SPC Charts
- Standard deviation
- The normal distribution
- Other types of distributions
- Control chart set-up and prerequisites
- Types of Control Charts
- X-Bar and R chart
- X-bar and standard deviation chart
- IX and Moving Range chart

Day 2:

- P-chart
- np-chart
- c-chart
- u- chart
- Short Run ChartsProcess Documentation on SPC Construction and Use
- Automated Methods of Charting and Collecting Data
- How to Interpret Control Charts
- Out-of-control rules
- Specification Limits and SPC Charts
- Estimating Process Capability
- Process Capability Studies