



DEMONSTRATE AN UNDERSTANDING OF STATISTICAL PROCESS CONTROL

Unit Standard: 263395



Course Information



Qualification Title	National Certificate: Quality Management Systems
Course Name	Demonstrate an Understanding of Statistical Process Control
Course Level	5
Course Credits	12
Course Duration	Three days
Cost of Course	R 2 800,00 per delegate (excluding 15% VAT)

Course Overview

The course equips delegates with the knowledge and the ability to use the various statistical concepts to conduct/perform statistical process control.

This highly interactive and practical course is designed to provide delegates with a sound knowledge of all elements involved in Quality Management System practice or profession to:

- Explain statistical concepts of statistical process control.
- Sample product characteristics to construct control charts.
- Construct and interpret charts.

Quality Management System

Who Should Attend?	Learners seeking knowledge related to the statistical process control as a method of quality control.
Course Objectives	The fundamental objective of the course is to help understand and learn about sampling techniques, to gather data, the purpose of compiling and interpreting charts.
Benefits	Benefits of this course include: - Improved knowledge and understanding of statistical process control. - Increased technical skills relating to control charts.

Course Content

Course Modules	Course modules: - Variation is explained within a process context. - Process stability is explained in terms of its importance for the implementation of statistical process control. - Process capability is explained in terms of control and tolerance bands. - An explanation is given of measures of spread and central tendency. - Common and special causes of variation in processes are described for corrective/preventive action. - Attributes, variables, and related control charts are discussed in terms of their scope of application to identify process problems. - Sampling methodologies are analysed to choose the most appropriate method to perform a specific task. - A Sampling plan is implemented according to sampling methodology. - Data is collected from relevant sources to determine base values. - Data is captured in preparation for the construction of a chart. - Process averages and control limits are calculated to construct the chart. - The appropriate control chart is constructed to analyse the process variation. - Trends and/or points in 'out-of-control' situations are identified to determine root cause/s for corrective and preventive action.
-----------------------	--

	14. Process capability is calculated based on control limits and tolerance bands. 15. A report on process stability, suitability and capability is prepared according to requirements and within an ethical framework.
Certification and Assessments	All delegates who complete the summative assessment will be assessed, moderated, and receive a SOR (Statement of Results). Thereafter a Certificate of Competence from WWiSE (or SETA for qualifications) will be issued.

About WWiSE

Who are we?

World Wide Industrial & Systems Engineers (WWiSE) is an ISO consultancy, training, business solutions, and systems implementation firm based in Southern Africa that provides clients with effective business processes management solutions in preparation for ISO compliance. The solutions we provide and implement allow our clients to compete favourably in modern competitive business environments, both locally and internationally. We also strive to be the leading training providers in SHERQ, ISO, Engineering, Finance, Business, and Project Management.

What do we do?

Our services are aimed at the improvement of quality, efficiency, knowledge, and competitiveness of client companies. This service range includes:

- ISO and SHERQ Systems implementation services, whereby we assist clients in meeting the requirements of (but not limited to) ISO 9001, 14001, 22000, 31000, 27001, 20000-1, 50001, and ISO 45001 Standards.
- Integrated Management Systems development whereby we integrate several business systems and management solutions into a single management system to comply with standards.
- Training of all employees (Shop Floor to Executive Management) in the fields of SHERQ, Engineering, Finance, Business, and Project Management to meet job responsibilities and expertise requirements of International Standards.
- ISO and Legal Auditing which includes Gap Analysis Audits, Product, Process, Procedural, and Systems auditing by our registered SAATCA Auditors.
- Customised web-based solutions integrating current systems to be in line with ISO requirements.

We are a Level 1 BBBEE Contributor that specialises in systems development, consultancy, training, and auditing.