



DEMONSTRATE AN UNDERSTANDING OF SORT AND SEARCH TECHNIQUES USED IN COMPUTER PROGRAMMING

Unit Standard: 115373



Course Information



Qualification Title

National Certificate: Information Technology (Systems Development)

Course Title

Demonstrate an Understanding of Sort and Search Techniques Used in Computer Programming

Course Level

5

Course Credits

5

Course Duration

Three days

Cost of Course

R 2 800,00 per delegate (excluding 15% VAT)

Course Overview

This highly interactive and practical course is designed to provide delegates with a sound knowledge of all elements involved in data retrieval.

Systems Development

Who Should Attend?	Intended for persons with knowledge of IT data storage and retrieval.
Course Objectives	The fundamental objective of the course is to allow delegates to be able to conduct data retrieval activities.
Benefits	Benefits of this course include learning to: - Identify, solve problems, and make decisions in relation to the current systems development environments - Organise and manage him/herself and his/her activities responsibly and effectively - Communicate effectively using visual, mathematical and or language skills in the modes of oral and/ or written persuasion when engaging with systems development - Demonstrate an understanding of the world as a set of related systems by recognising that problem solving contexts do not exist in isolation - Contribute to his/her full personal development and the social and economic development of the society at large by being aware of the importance of: reflecting on and exploring a variety of strategies to learn more effectively, exploring education and career opportunities, and developing entrepreneurial opportunities

Course Content

Course Modules	Course modules consist of: - How abstract data types are stored on computers. - Different abstract data types used in computer programming. - Different data structures used to store abstract data types in a computer. - Understanding sort techniques used to sort data held in data structures. - Different types of sort techniques. - The working of different types of sort techniques. - Typical problems found with sorting of data. - Different types of search techniques. - The working of different types of search techniques.
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	10. Typical problems found with searching of data.
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.