



TEST A COMPUTER PROGRAM AGAINST A GIVEN SPECIFICATION

Unit Standard: 115384



Course Information



Qualification Title

National Certificate: Information Technology (Systems Development)

Course Title

Test a Computer Program Against a Given Specification

Course Level

5

Course Credits

6

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 Computer Testing. People credited with this Unit Standard will be able to:

- Test a computer program against given specifications according to test plans.
- Record the results from testing a computer program.
- Review the testing process for a computer program against organisation policy and procedures.

Systems Development

Who Should Attend?	Intended for persons seeking knowledge related to program testing.
Course Objectives	The fundamental objective of the course is to enable delegates to conduct computer testing.
Benefits	Benefits of this course include learning to: - Identify, solve problems and make decisions in relation to the current systems development environments. - Work effectively with others as a member of an organisation. - Organise and manage him/her self and his/her activities responsibly and effectively. - Collect, analyse, organise, and critically evaluate information. - Use science and technology effectively and critically, showing responsibility towards the environment and health of others. - 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: - Test a computer program against given specifications according to test plans. - Black box testing - functional, data driven, I/O testing. - White box testing - logic-driven, structural, glass box testing. - Screen layout, forms design, data controls, input validation, ranges. - The testing executes operational steps identified in the test plan. - Form specific outcome range statement as applicable to the test situation. - Use input data as specified in the test plan.
-----------------------	---

	8. Outline testing deviations from the test plan, with explanations. 9. Testing to follow the standards and procedures specified in the test plan for testing and re-testing. 10. Record the results from testing a computer program. 11. Test log, test incident report, error flags, schedule of tests. 12. The records are provided for all tests executed. 13. The records identify variations from expected test results and gives reason where available. 14. The recorded results are reproduced if the tests are repeated under the same conditions. 15. The recorded results are recorded in a way that allows the results to be reviewed. 16. Review the testing process for a computer program against organisation policy and procedures. 17. Test deliverables, review of test incident report, pass/fail criteria, contingencies, qa approval. 18. The review allows improvements to be made to the application testing process. 19. The review follows organisation policy and procedures.
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.