



APPLY FUNDAMENTAL PRINCIPLES OF OBJECT-ORIENTED PROGRAMMING TO SOLVE A GIVEN PROBLEM

Unit Standard: 115363



Course Information



Qualification Title

National Certificate: Information Technology
(Systems Development)

Course Title

Apply Fundamental Principles of Object-
Oriented Programming To Solve A Given
Problem

Course Level

5

Course Credits

10

Course Duration

Three days

Cost of Course

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

Course Overview

Qualifying learners can create basic classes for simple examples and implement member functions for given simple examples. In addition to that, they will be able to create and use objects for a given simple class and use objects to solve a given simple problem.

Systems Development

Who Should Attend?	This course is for anyone interested in the field of system development and computer architecture concepts.
Course Objectives	- Create basic classes for given simple examples. - Implement member functions for given simple examples. - Create and use objects for a given simple class. - Use objects to solve a given simple problem.
Benefits	Benefits of this course include learning to: - Identify, solve problems, and make decisions concerning the current systems development environments. - Organise and manage him/herself 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: - The class creation in a chosen programming language. - The class creation – access levels to data members and member functions. - The class creation – data members for the class. - Different types of member functions. - Simple constructors and destructors. - Access functions to private data members. - The creation of internal utility functions. - The creation of external utility functions.
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	9. The creation of a class in a driver program. 10. Access functions to set and retrieve values of data members. 11. External utility functions. 12. Use objects to solve a given simple problem. 13. Object identifies classes for the given real-life problem. 14. Object identifies member functions and data members for the given problem. 15. The object is designed and documented using the latest object design techniques.
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.