



REPRESENT ANALYSE AND CALCULATE SHAPE AND MOTION IN 2-AND 3-DIMENSIONAL SPACE IN DIFFERENT CONTEXTS **UNIT STANDARD: 9016**



Course Information



Qualification Title

Further Education and Training Certificate: New Venture Creation

Course Title

Represent Analyse And Calculate Shape And Motion In 2- And 3-Dimensional Space In Different Contexts

Course Level

4

Course Credits

4

Course Duration

Three days

Cost of Course

R2 800,00 per delegate (excluding 15% VAT)

Course Overview

The focus of this course has been designed to enable learners to be competent in a range of knowledge, skills, attitudes and values. They will similarly be able to demonstrate competencies in management relating to planning, organising, leading, controlling and ethics.

Further Education and Training Certificate: New Venture Creation

Who Should Attend?	This course is aimed at those aspiring towards or already engaged in activities involving project management and will also add value to those who are running their own business and recognise that project management forms an integral component of any business.
Course Objectives	Learners credited with this unit standard are able to: - gain an insightful use of mathematics in the management of the needs of everyday living to become a self-managing person. - gain an understanding of mathematical applications that provides insight into the learner's present and future occupational experiences and so develop into a contributing worker. - have the ability to voice a critical sensitivity to the role of mathematics in a democratic society and so become a participating citizen. - measure, estimate, and calculate physical quantities in practical situations relevant to the adult with increasing responsibilities in life or the workplace - explore analyse and critique, describe and represent, interpret and justify geometrical relationships and conjectures to solve problems in two and three dimensional geometrical situations
Benefits	- Solve a variety of problems relevant to the adult with increasing responsibilities involving space, shape and time using geometrical techniques. - Gather, organise, evaluate and critique information about objects and processes. - Use everyday language and mathematical language to describe properties, processes and problem solving methods. - Use mathematics to analyse, describe and represent realistic and abstract situations and to solve problems relevant to the adult with increasing responsibilities.

Course Content

Course Modules	1. Measure, estimate, and calculate physical quantities in practical situations relevant to the adult. 2. Scales on the measuring instruments are read correctly 3. Quantities are measured correctly to within the least step of the instrument. 4. Symbols and units are used in accordance with SI conventions and as appropriate to the situation. 5. Explore, analyse & critique, describe & represent, interpret and justify geometrical relationships. 6. Descriptions are based on a systematic analysis of the shapes and reflect the properties of the shapes accurately, clearly and completely. 7. Different views are correctly assimilated to describe 3-dimensional objects 8. Conjectures as appropriate to the situation, are based on well-planned investigations of geometrical properties. 9. Alternative strategies to obtain the solution are identified and compared in terms of appropriateness and effectiveness.
Certification and Assessments	• All delegates who complete the summative assessment will be assessed, moderated and receive the SOR (Statement of Results) then the certificate of competence from WWiSE or SETA if it's a qualification

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 and Safety, Health, Environmental, Risk and Quality (SHERQ) management solutions in preparation for ISO compliance. The solutions we provide and implement allow our clients to compete favourably in modern competitive business environments, 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. The service range includes:

- ISO and SHERQ Systems implementation services whereby we assist client companies in meeting the requirements of ISO 9001, 14001, 22000, 31000, 27001, 20000-1, 50001 and ISO 45001 standards.
- Integrated Management Systems development whereby we integrate several business systems and quality management solutions into a single management system to comply with various quality and safety standards.
- Training of all employees (Shop Floor to Executive Management) in the fields of SHERQ, Engineering, Finance, Business and Project Management to meet the 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.