

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

Course Overview

The focus of this course has been designed to equip learners with 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. • This 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	• 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, critique, describe, represent, interpret, and justify geometrical relationships and conjectures to solve problems in two- and three-dimensional geometrical situations.
Benefits	Benefits of this course include learning to: • 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	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 last step of the instrument. 4. Symbols and units are used per SI conventions and as appropriate to the situation. 5. Explore, analyse and critique, describe and 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 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.