MATHEMATICS

DESCRIPTION	UNIT STANDARD	UNIT STANDARD TITLE	LEARNING OUTCOMES	DURATION (DAYS)	NQF LEVEL	CREDIT
	9015	Apply knowledge of statistics and probability to critically interrogate and effectively communicate findings on life related problems	Critique and use techniques for collecting, organising and representing data.			
			Use theoretical and experimental probability to develop models, make predictions and study problems.			
			Critically interrogate and use probability and statistical models in problem solving and decision making in real-world situations.	2	4	6
	9016	Represent analyze and calculate shape and motion in 2 and 3-dimensional space in different contexts	Measure, estimate, and calculate physical quantities in practical situations relevant to the adult with increasing responsibilities in life or the workplace.			
			Explore, analyze and critique, describe and represent, interpret and justify geometrical relationships and conjectures to solve problems in two and three dimensional geometrical situations	2	4	4
	7468	Use mathematics to investigate and monitor the financial aspects of personal, business, national and international issues	Define a budget.			
			What are the steps to be followed for company budgetary control?			
			Why is it advisable to start with a sales-, then a production- and then a capital expenditure forecast in the budgeting process?			
			What is the difference between assurance and insurance?			
			What is an annuity?			
			What is a bond?			
			What is inflation?	2	4	6
	9010	Demonstrate an understanding of the use of different number bases and measurement units and an awareness of error in the context of relevant calculations	Convert numbers between the decimal number system and the binary number system.			
			Work with numbers in different ways to express size and magnitude.			
			Demonstrate the effect of error in calculations.	1	3	2
	9013	Describe, apply, analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts	Measure, estimate, and calculate physical quantities in practical situations.			
			Explore, describe and represent, interpret and justify geometrical relationships and conjectures.	1	3	4
	9012	Investigate life and work related problems using data and probabilities	Pose questions, collect and organise data.			
			Represent, analyse and interpret data using various techniques.			
			Use random events to explore and apply, probability concepts in simple life.	1	3	5
MATHEMATICS	7456	Use mathematics to investigate and monitor the financial aspects of personal, business and national issues	Use mathematics to plan and control personal, regional and/or national budgets and income and expend			
			Use simple and compound interest to make sense of and define a variety of situations.			
			Use mathematics to debate aspects of the national economy.	1	5	5