

USE MATHEMATICS TO SOLVE WORKPLACE PROBLEMS

SP0358/09-17

Duration:	3 days
Target:	Operators / candidates competent in NQF Level 2
Prerequisite:	NQF Level 2
NQF Info:	NQF Level 3
Qualification:	Towards the National Certificate in Plastics Manufacturing / Polymer Composite Fabrication / Thermoplastic Fabrication NQF Level 3
Credits:	6
Certification:	merSETA-accredited Plastics SA Certification

Unit Standard

- Demonstrate use of different number bases, and measurement units & and an awareness of error in the context of relevant calculations [9010]
- Describe, apply, analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts [9013]

Objective of Learning Programme

To provide skills in mathematics within the context of everyday living; provide an understanding of mathematical applications within an occupational context.

Outcomes

At the end of the learning programme, learners will be able to

- Measure, estimate and calculate physical quantities in practical situations
- Explore, describe and represent, interpret and justify geometrical relationships and conjectures
- 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

Contents

- Measure, estimate, and calculate physical quantities in practical situations
- Explore, describe and represent, interpret and justify geometrical relationships and conjectures
- Work with rational and irrational numbers
- Work with numbers in different ways to express size and magnitude
- Explore repeating decimals and convert them to common fraction form
- Demonstrate understanding of the mathematical relationships and principles involved in computations

Assessment and Certification

- Workplace Experience Assignments to be submitted within two weeks following training. A Plastics|SA Certificate of Competence is issued to successful candidates.
- Relevant credits may be awarded to successful learners upon merSETA due approval process.