

ESSENTIAL WORKPLACE STATISTICS

SP0360/09-17

Duration:	3 days
Target:	Candidates competent in NQF Level 3
Prerequisite:	NQF Level 3
NQF Info:	NQF Level 4
Qualification:	Towards the Further Education and Training Certificate in Plastics Manufacturing NQF Level 4
Credits:	15
Certification:	merSETA-accredited Plastics SA Certification

Unit Standards

- Apply knowledge of statistics and probability to critically interrogate and effectively communicate findings on life related problems [9015]
- Interpret and use information from texts [8969]
- Represent, analyse and calculate shape and motion in 2 and 3 dimensional space in different context [9016]

Objective of Learning Programme

To critically interrogate and use probability and statistical models in problem solving and decision making in real-world situations. To use sequences and series to solve problems in real and simulated situations and interpret their findings.

Outcomes

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

- Use sequences and series to model real and simulated situations and interpret their findings. Critique and use techniques for collecting, organising and representing data
- Apply models based on sequences and series to solve problems. Investigate and interpret convergence of sequences and infinite geometric series.
- Use theoretical and experimental probability to develop models
- Investigate and interpret convergence of sequences and infinite geometric series
- Use models to correctly represent situations and include findings of general terms

Contents

- Situations or issues that can be dealt with through statistical methods are identified correctly
- Methods and devices (e.g. tables of random numbers, calculators or computers) are used to select random samples; different instruments and scales such as yes/no (dichotomous) and 5 point (Likert scales)
- Data sources and databases are selected in a manner that ensures the representation of the sample and the validity of resolutions.
- Calculations and the use of statistics are correct
- Graphical representations and numerical summaries are consistent with the data; evaluation of data gathering techniques is such that faults and inconsistencies are identified
- Calculations involve measures of center and spread such as mean, median, mode, range; and variance. Using scatter plots and lines of best fit to represent the association between two variables

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.