

## INVESTIGATE LIFE AND WORK RELATED PROBLEMS USING DATA AND PROBABILITIES

SAQA ID: 9012

NQF LEVEL: 03

CREDITS: 05

### OUTLINE

Pose questions, collect and organise data.

- ✓ Represent, analyse and interpret data using various techniques to investigate real-life and work problems
- ✓ Use random events to explore and apply, probability concepts in simple life and work related situations
- ✓ Situations or issues that can be dealt with through statistical methods are identified correctly
- ✓ Variables contributing to a problem situation are identified and addressed in data gathering, e.g. crime is related to time of day and location
- ✓ Appropriate and efficient methods are used to collect, record and organise data.
- ✓ Graphical representations and numerical summaries are consistent with the data, are clear and appropriate to the situation and target audience
- ✓ Different representations of aspects of the data are compared to take a position on the issue
- ✓ Calculations and the use of statistics are correct and appropriate to the problem
- ✓ Interpretations of statistics are justified and applied to answer questions about the problem
- ✓ New questions that arise from the modelling of the data are discussed
- ✓ Data are gathered, organised, sorted and classified in a suitable manner for further processing and analysis
- ✓ Probabilities are determined correctly
- ✓ Distinctions are correctly made between theoretical and experimental probabilities
- ✓ The outcomes of experiments and simulations are communicated clearly

### DURATION:

Theoretical training: 2 days