# 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

**RATIO:**

Theoretical training: 15 learners per Facilitator/Assessor