



Who we are

S4 is a B-BBEE Level 1 black owned organisation (women in business), with over 40 years experience in industry. Our services include Quality, Occupational Health & Safety, and Environmental (SHEQ) management systems training, auditing, and consulting.



Course Reference No.: QBE-I03

7. Inspection and Testing Principles & Use of Measuring Instruments

Course Overview

This 2-day course is intended for individuals who need to learn the correct use and application of measuring and testing equipment. This course is more effective when it is conducted in-house where practicals would be relevant to the workplace.

Duration: 2 Days

COURSE OUTCOMES

- The learner will have the knowledge and understanding of the care to be taken with mechanical gauging equipment
- Be able to use basic gauging equipment i.e., verniers, micrometres, gauge blocks and bore gauges
- Identify the accuracy of the gauge in relation to the specifications
- Interpret results of measurement

Prerequisite:

There are no prerequisites for this course.

Who should attend:

Any person who is required to use measuring equipment working from dimensions, from drawings or specifications.



COURSE CONTENT

- **Purpose of Inspection**
 - **Seriousness Classification**
- **Measuring Instruments**
- **Mechanical and electronic indicators**
- **Attribute Gauging**
- **(NDT) non-destructive testing**
- **Precision and Accuracy**
- **Mechanical drawings & Symbols**
- **Metrology**
- **Calibration**
- **Transfer tools and its purposes**
- **Variable Gauging**
- **Measuring fundamentals**
- **Repeatability & reproducibility**
- **Corrective action**

Mini case studies & scenarios are provided for the duration of the 2 days

Venue: 31 Beacon Road, Florida North, Roodepoort, 1709

Date: As per schedule

NQF Level 3 | 6 Credits on SAQA 66189

Assessments are done in the following way:

- ✓ **Continuous assessments**
- ✓ **Portfolio of Evidence**

Please note dates are subject to change. Classes will only commence once the minimum of 5 learners are registered.