

Introduction to Dimensional Metrology

Course Objectives

To obtain the basic understanding of Dimensional Metrology as use in measuring and inspection in industry. The traceability from the SI unit, the metre to the industry measurement is explained together with terminology used in the field of metrology. How to interpret Specifications when selecting measuring equipment for a specific task. Basic uncertainty calculations of measurements and how this uncertainty is used to proof conformance to the Specification. The course is focusing on the use of dimensional measuring instruments e.g. Micrometers, Vernier Callipers, Profile Projectors etc.

Course Content

The course consists of modules, covering:

- Intro into dimensional metrology, definition of the metre, terminology, units of measurements, applications, standards and specifications.
- The principles and techniques to consider in performing dimensional measurements.
- Intro in uncertainty use and calculations in measurements.
- The use of hand-held measuring equipment, e.g. Micrometers, vernier callipers and dial test indicators.

Course Date

29 – 30 August 2024

Duration

2 days

Cost

R4 250

Who should attend?

The course is aimed at inspectors entering the workforce to develop their measuring skills and understanding the factors which effects these measurements.

Course Information

NMISA's courses are developed and narrated by experts in the field.



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