



LABORATORY TRAINING

ISO/IEC 17043 and Proficiency Testing

3 day course

Classroom, online or in-house

Course overview

Proficiency testing is the strongest external evidence a laboratory has that its results are right, and the weakest link is usually how the scheme itself was designed. This course covers both sides. Delegates work through the requirements of ISO/IEC 17043 for a provider, including scheme design, item homogeneity and stability, assigned value determination and the setting of a standard deviation for proficiency assessment. Participants learn to interpret their own z scores properly, to distinguish a genuine performance problem from a scheme artefact, and to respond to an unsatisfactory result in a way an assessor accepts. The course closes on using proficiency data as evidence of ongoing validity.

What you will learn

- Apply ISO/IEC 17043 requirements to the design of a scheme
- Assess item homogeneity and stability
- Determine an assigned value and its uncertainty
- Set a standard deviation for proficiency assessment appropriately
- Interpret z scores and distinguish a real problem from a scheme artefact
- Respond to an unsatisfactory result so an assessor accepts the response
- Use proficiency data as evidence of ongoing validity of results

Who should attend

- Proficiency testing scheme providers and coordinators
- Laboratory quality and technical managers
- Analysts responsible for participation and follow up
- Accreditation body assessors
- Statisticians supporting scheme design

Course outline

- 01 What proficiency testing evidences, and its limits
- 02 Scheme design under ISO/IEC 17043
- 03 Item preparation, homogeneity and stability
- 04 Assigned value determination
- 05 Setting the standard deviation for assessment
- 06 Performance statistics and z score interpretation
- 07 Responding to an unsatisfactory result
- 08 Using the data as evidence of ongoing validity

Upcoming dates

Dates	Venue	Format	Fee per delegate
25 to 27 September 2026	Victoria, Seychelles	Classroom	R11,995
30 October to 1 November 2026	Mbabane, Eswatini	Classroom	R11,995
13 to 15 December 2026	Victoria, Seychelles	Classroom	R11,995

Fees and how to register

Online **from R6,500** per delegate, classroom **from R11,995** per delegate, in-house training is quotation on request.



Book 2 or more delegates on this course and save 10%.

To register or request an in-house proposal, visit www.afrisciencegroup.com, email info@afriScience.co.za, or WhatsApp us on **+27 63 479 1136**.

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