



LABORATORY EXCELLENCE, SAFETY AND ACCREDITATION

ISO 17034 for Reference Material Producers

3 day course

Classroom, online or in-house

Course overview

A reference material carries the traceability of every measurement made against it, so the requirements on its producer are correspondingly strict. This course covers ISO 17034. Delegates work through production planning and material processing, homogeneity and stability assessment and the statistical treatment each requires, characterisation approaches and the assignment of property values with their uncertainty, and the commutability question for materials used in medical and food testing. Certification, documentation and the information a producer must supply with a material are covered in detail, and the course closes on assessment preparation and the findings producers most often receive.

What you will learn

- Apply ISO 17034 requirements to reference material production
- Plan production and process material to a controlled specification
- Assess homogeneity and stability with appropriate statistical treatment
- Characterise a material and assign property values with uncertainty
- Address commutability where the material supports medical or food testing
- Produce the certificate and accompanying information required
- Prepare for assessment and anticipate common findings

Who should attend

- Reference material producers and their technical staff
- Metrology institute staff
- Laboratory quality and technical managers
- Assessors and accreditation body staff
- Statisticians supporting characterisation studies

Course outline

- 01 The role of a reference material in the traceability chain
- 02 Production planning and material processing
- 03 Homogeneity assessment and its statistics
- 04 Stability assessment, short and long term
- 05 Characterisation approaches
- 06 Assigning property values and uncertainty
- 07 Commutability for medical and food applications
- 08 Certification, documentation and assessment

Upcoming dates

Dates	Venue	Format	Fee per delegate
12 to 14 October 2026	Nairobi, Kenya	Classroom	USD 995
4 to 6 November 2026	Windhoek, Namibia	Classroom	R14,950
9 to 11 November 2026	Durban, South Africa	Classroom	R14,950
16 to 18 November 2026	Online	Online	R6,500



Fees and how to register

This 3 day course is **R6,500** per delegate online, **R14,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 995** in the classroom elsewhere in Africa. 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**.

AfriScience Group | +27 61 536 6531 | info@afriscience.co.za | Pretoria, Gauteng, South Africa