

SANS 241:2025 Drinking Water Quality Monitoring, Risk Management and Compliance

OVERVIEW

South Africa's drinking water standard has changed. SANS 241:2025 moves the sector away from tick-box testing toward a proactive, risk-based approach to water safety, meaning new expectations for anyone responsible for testing, treating, or certifying drinking water compliance.

This one-day workshop gives water services professionals the working knowledge they need to understand the revised standard, apply its risk-based monitoring framework, and respond correctly when water quality results fall outside the limits — covering the legal framework, determinands, monitoring strategy, sampling practice, incident response, and compliance documentation in a single, focused session.

The course is suitable for both municipal and private-sector water supply environments, and is designed for operational, technical, laboratory, environmental health, and compliance personnel who need a practical, working grasp of the standard rather than a multi-day deep dive.

LEARNING OUTCOMES

Upon successful completion of this programme, participants will be able to:

- Explain the purpose, structure and application of SANS 241:2025.
- Interpret drinking water quality requirements and determinand classifications.
- Apply risk-based monitoring principles to water supply systems.
- Develop monitoring programmes based on identified system risks.
- Understand compliant water sampling and laboratory testing requirements.
- Interpret water quality laboratory reports and compliance data.
- Respond appropriately to water quality exceedances and incidents.
- Differentiate between operational, aesthetic and health-related risks.
- Maintain records required for regulatory audits and compliance verification.
- Support implementation of proactive drinking water quality management systems

WHO SHOULD ATTEND

- Municipal Managers
- Technical Directors
- Directors of Water & Sanitation
- Water Services Authority (WSA) officials
- Water Services Institution (WSI) managers
- Water Treatment Works Managers
- Wastewater Treatment Works Managers
- Process Controllers and Plant Operators
- Water Quality Managers and Laboratory Supervisors

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Introduction to SANS 241:2025 and the Legal Framework

- Overview of drinking water quality management in South Africa
- Purpose and scope of SANS 241:2025
- Evolution from SANS 241:2015 to SANS 241:2025
- Relationship between SANS 241 and South African legislation
- Duties of responsible bodies
- Public health obligations
- Introduction to risk-based compliance

Drinking Water Determinands and Compliance Principles

- Microbiological determinands
- Chemical determinands
- Physical determinands
- Aesthetic determinands
- Operational determinands
- Radiological screening requirements
- Health implications of non-compliance
- Understanding “deemed safe” drinking water

Risk-Based Monitoring and Water Quality Management

- Hazard identification
- Risk characterisation
- Monitoring programme design
- Mandatory process risk parameters
- System-specific risk-defined parameters
- Monitoring frequencies
- Sampling point selection
- Borehole and small-system monitoring considerations

Water Sampling and Laboratory Analysis

- Sampling principles
- Representative sampling techniques
- Chain-of-custody procedures
- Sample preservation and transport
- Field testing requirements
- Laboratory quality assurance
- SANAS-accredited testing
- Interpretation of laboratory reports

Compliance Evaluation and Incident Response

- Interpretation of exceedances
- Health, operational and aesthetic risk classification
- Incident escalation procedures
- Corrective actions
- Boil water notices
- Distribution network contamination events
- Consumer communication principles

Roles, Responsibilities and Compliance Documentation

- Responsibilities of WSAs and WSPs
- Compliance officer responsibilities
- Environmental health oversight
- Audit preparedness
- Recordkeeping requirements

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LIVE ONLINE TRAINING | 31 JULY 2026 | **R5 999** Per Delegate

Full Names: _____

Company name: _____

Direct Tel No: _____ E-mail: _____ Fax: _____

VAT No: _____

Address: _____

Signature _____

Person Responsible for Finance: _____ Direct Tel No: _____ Date of Payment: _____

BANKING DETAILS:

Indepent Training Management Pty Ltd
Bank: FNB South Africa
Account Number: 62685879276
Branch Code: 251650
Branch: Randburg

THE FOLLOWING HEREBY CONFIRM ATTENDANCE TO THE WORKSHOP

Delegate1: Names _____

Position: _____ E-Mail: _____

Delegate 2: Names _____

Position: _____ E-Mail: _____

Delegate 3: Names _____

Position: _____ E-Mail: _____

Delegate 4: Names _____

Position: _____ E-Mail: _____

Delegate 5: Names _____

Position: _____ E-Mail: _____

All fees are current at the time of going to print; however, we reserve the right to change them.

2. Additional Delegate Rates:
Additional delegate rates apply when bookings are made at the same time on the same course.

3. Confirmation Instructions:
On receipt of this submitted booking form and payment or purchase order you will receive a confirmation letter by email confirming your participation in the training event. This includes a location map with directions and venue details and starting times.

4. Attendance:
Please note that no learner will be permitted to attend any training course without proof of payment or an order no.

5. Delegate Substitution:
Substitutes can be made at any time without incurring a penalty. Please inform us in writing so we can make the necessary arrangements for the new learner.

6. Payment:
Payment can be made by cheque or by electronic transfer, and must be received 5 working days prior to the commencement of the course. Please quote the reference number from your invoice and organisation name so that payments can be tracked. All cancellations must be done in writing and emailed directly to Independent Training. Management Inform us immediately if you have to re-schedule or cancel the booking so that we can inform the caterers and conference venue.

The following charges apply if you cancel:

- 11 - 30 days before a course = 10% of the course fee
- 6 – 10 days before a course = 20% of the course fee
- 4 – 6 days before a course= 30% of the course fee
- 1-3 days before a course = 50% of the course fee