

“Capacity Building and Strengthening Institutional Arrangement”

Analysis and sampling of air and air pollution

Introduction to ISO 17025:99

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APAT

Agency for Environmental Protection and Technical Service

Quality Control and Accreditation

- Accreditation
- Technical requirements (section 5 of ISO 17025:2005)
- Assuring the quality of test results
 - Use of CRMs
 - Interlaboratory comparisons/Proficiency testing

Accreditation

Formal recognition that an organization is competent to carry out specific tests or types of test

Demonstrates

The competence and the sustainable performance of organizations providing testing services

ISO 17025:2005

- General requirements for the competence of testing and calibration laboratories
 - Management requirements
 - Technical requirements
- First edition published in 2000
- Replaced ISO Guide 25 and EN 45001

ISO 17025:2005 requirements

- The lab operates a quality system
- Personnel are technically competent
- The lab is able to generate technically valid results

Clause 4 specifies the management requirements

Clause 5 specifies the technical requirements

ISO 17025:2005 Way accreditation

- *The accreditation will facilitate:*
 - *Acceptance of testing and calibration results between countries;*
 - *Cooperation between labs and other Institutions;*
 - *Assist in the exchange of information and experience*

ISO 17025:2005 vs ISO 9001:2000

- *ISO 17025:2005 incorporates all the requirements of ISO 9001:2000*
- *Testing and calibration labs that comply with ISO 17025 operate in accordance with ISO 9001*
- Certification against ISO 9001 does not demonstrate the competence of the labs

ISO 17025:2005

Management requirements

- *Organization*
- *Quality system*
- *Document control*
- *Contract review*
- *Subcontracting*
- *Purchasing supplies*
- *Service to client*
- *Compliants*
- *Non-conforming work*
- *Corrective action*
- *Preventive action*
- *Audit*
- *Records*

ISO 17025:2005

Technical requirements

- Personnel trained and competent
- Accommodation and environment
- Methods and validation
- Equipment
- Measurement traceability
- Sampling
- Handling of Test Items
- Quality assurance
- Reporting