

Article Overview

Spectrometer calibration in the Gulf region is widely available through ISO/IEC 17025-accredited laboratories and specialized service providers, ensuring traceable, accurate, and compliant measurements.

Regional Metrology Infrastructure

The Gulf Association for Metrology (GULFMET) plays a central role in enhancing metrological capabilities across Gulf countries. It facilitates cooperation among national metrology institutes and designated institutes, helping member states achieve international recognition for their Calibration and Measurement Capabilities (CMCs) and maintain traceability to global standards. Participation in GULFMET ensures access to knowledge exchange, technical support, and updates on metrology developments.

Service Providers and Accreditation

Several companies in the Gulf region provide spectrometer calibration services:

- o Eurocaltech Services (UAE) offers calibration for spectrophotometers from major manufacturers such as Agilent, Thermo Fisher, Mettler Toledo, and X-Rite. Their services cover wavelength accuracy, photometric accuracy, and stray light performance, adhering to standards including ISO/IEC 17025, ISO 9001, ASME NQA-1, and NCSL Z540-1.
- o Gulf Instruments (Dubai, UAE) provides comprehensive instrument repair and calibration services for industrial and laboratory spectrometers, ensuring traceability to international standards and compliance with ISO/IEC 17025.
- o Quality Technical Services (QTS, UAE) offers ISO 17025:2017-accredited calibration for specialized instruments, including spectrometers, across Abu Dhabi, Dubai, and the wider MENA region.
- o Bahrain hosts 9 ISO/IEC 17025-accredited calibration laboratories, serving the oil, gas, and industrial sectors, providing reliable spectrometer calibration and testing services.

Key Considerations

When selecting a spectrometer calibration service in the Gulf region, consider:

- o Accreditation: Ensure the lab is ISO/IEC 17025-accredited for traceable and internationally recognized results.
- o Scope of Service: Confirm the lab supports your spectrometer type and required calibration metrics (wavelength, photometric accuracy, stray light).
- o Onsite vs. Laboratory Calibration: Some providers offer field calibration for industrial setups, while others

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require instruments to be sent to the lab.

- o Compliance Standards: Check adherence to relevant quality and nuclear standards if applicable (e.g., ASME NQA-1, 10CFR50 Appendix B).

Conclusion

The Gulf region offers a robust network of accredited laboratories and specialized service providers for spectrometer calibration, supported by regional metrology initiatives like GULFMET. These services ensure accurate, traceable, and compliant measurements for laboratories, industrial facilities, and research institutions across the UAE, Saudi Arabia, Bahrain, and other Gulf countries.

Gulf Calibration and Technical Services is a fully fledged Calibration Laboratory located in Muscat, Sultanate of Oman. The Company

Regulations and Standards Spectroscopy calibration standards in the Middle East are subject to a layered regulatory

We do calibration for Electrical related instruments in our Laboratory or at your site. Your equipment is brought into specification

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About Gulf Metrology Association GULFMET, is a Regional Metrology Organization (RMO) established under the auspices of GCC

ISO-accredited calibration in Saudi Arabia -- temperature, mechanical, electrical, SF6, and oil tester instruments.

was established in Qatar in 1998 to provide process equipment calibration, repair, rental and management services. Q-Cal is a joint

Calibration involves comparing the test results of a measuring device with a known reference to ensure

SOP & calibration plan support Field service On-site installation, preventive maintenance, repair and

Get ISO 17025 accreditation, calibration, and certification services from an IEC 17025 accredited laboratory. Reliable, precise, and

Gulf Equipment Metrology Services (GEMS), established in 1983, is the Gulf's first commercial primary calibration laboratory and the

QUALITY It is the Policy of this Company to conduct its business in a good professional manner, which demonstrates technical

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ASP Keysight Laboratory Gulf Calibration Service (GCS) is constantly improving the quality of its services, striving for world

GCC Standardization Organization GCC Standardization Organization (GSO) is a Regional Standardization

GEMS operates in Jubail, Riyadh, Jeddah, and Bahrain, offering calibration and metrology services across the Gulf region.

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