

# Standardization of Documented QMS Procedures of Accredited Entities for Verification and Calibration

**V.G. Kutyaykin**<sup>1</sup>, Nizhny Novgorod Branch of Academy for Standardization, Metrology and Certification (Training) (Nizhny Novgorod Branch of ASMS), Assoc. Prof. PhD (Tech.), asmsnn@yandex.ru

**E.Yu. Geyger**<sup>2</sup>, Nizhny Novgorod Branch of ASMS, Assoc. Prof. PhD (Agr.)

**O.V. Khimich**<sup>3</sup>, ASMS, niroxs@mail.ru

**V.F. Mol'kov**<sup>4</sup>, Nizhny Novgorod Branch of ASMS

**S.G. Zelentsov**<sup>4</sup>, Nizhny Novgorod Branch of ASMS

<sup>1</sup> Director, Head of Department, Nizhny Novgorod, Russia

<sup>2</sup> Deputy Director, Head of Department, Nizhny Novgorod, Russia

<sup>3</sup> Graduate Student, Moscow, Russia

<sup>4</sup> Senior Lecturer of Department, Nizhny Novgorod, Russia

**Citation:** Kutyaykin V.G., Geyger E.Yu., Khimich O.V., Mol'kov V.F., Zelentsov S.G. Standardization of Documented QMS Procedures of Accredited Entities for Verification and Calibration, *Kompetentnost' / Competency (Russia)*, 2026, no. 4, pp. 27–31. DOI: 10.24412/1993-8780-2026-4-27-31

## key words

verification, calibration, quality management system, documented procedure, accreditation, uniformity of measurements, standard of organization

The most common activity of organizations accredited in the field of ensuring the uniformity of measurements is the verification of measuring instruments. This is a set of operations performed in order to confirm that measuring instruments meet metrological requirements. Calibration of measuring instruments is a methodologically similar operation to verification, which is a set of operations performed in order to determine the actual values of the metrological characteristics of measuring instruments. In the article, we have conducted a comparative analysis of accreditation criteria requirements for verification and GOST ISO/IEC 17025–2019 for calibration. Converging requirements and specific features of each operation were identified. The feasibility of developing a documented procedure for a quality management system for an accredited organization in the field of ensuring the uniformity of measurements, integrating verification and calibration operations, was determined.

## References

1. RF Federal Law of 28.12.2013 N 412-FZ On accreditation in the national accreditation system.
  2. RF Federal Law of 26.06.2008 N 102-FZ On ensuring the uniformity of measurements.
  3. RF Federal Law of 29.06.2015 N 162-FZ On standardization in the Russian Federation.
  4. RF Ministry of Industry and Trade Order of 27.01.2025 N 336 On approval of the procedure for recognizing calibration results and using them in the verification of measuring instruments in the sphere of state regulation of ensuring the uniformity of measurements, requirements for the registration of calibration results, including traceability, and the content of the calibration certificate.
  5. RF Ministry of Economic Development Order of 26.10.2020 N 707 On approval of the accreditation criteria and the list of documents confirming the compliance of the applicant, the accredited entity with the accreditation criteria.
  6. RF Ministry of Industry and Trade Order of 31.07.2020 N 2510 On approval of the procedure for verifying measuring instruments, requirements for the verification mark and the content of the verification certificate.
  7. GOST R 8.879–2014 State system for ensuring the uniformity of measurements. Methods for calibrating measuring instruments. General requirements for the content and presentation.
  8. GOST ISO/IEC 17025–2019 General requirements for the competence of testing and calibration laboratories.
  9. GOST R 1.4–2004 Standardization in the Russian Federation. Standards of organizations. General provisions.
  10. GOST R 54294–2010 Impartiality. Principles and requirements.
  11. GOST R ISO 19011–2021 Conformity assessment. Guidelines for auditing management systems.
-