



## Competence of the Slovak Institute of Metrology

The **Slovak Institute of Metrology** (SMU) is the national metrological institute of Slovakia. It was established by Act No. 157/2018 Coll. on Metrology (Metrology Act). Under this law, SMU ensures the storage, maintenance, and international comparison of national standards and their scales. In cooperation with other entities, it also transmits the values of set standards to specific entities' standards and other measuring instruments used in the national economy. SMU provides metrological services in both the regulated area (verification of specified measuring instruments and official measurements) and the unregulated area (calibrations, measurements).

SMU under registration no.: 1781, provides its services according to law no. **56/2018 Z. z.** on the conformity assessment of products and their market placement.

Furthermore, SMU performs other activities that are directly related to the field of metrology, such as the approval of specified measuring instrument types, issuing of documents on competence in the field of metrology, checking compliance with authorization requirements and authorization requirements by registrants, providing training in metrology, quality management systems, and testing.

SMU contributes to the unified and correct measurement system within Slovakia. It conducts its activities at the highest professional level, reflecting its position as the national metrological institute. To ensure the long-lasting quality of its services, annual checks of competencies in specific fields are performed at both national and international levels.

Since 14.10.1999 SMU has been a signatory of a prestigious international convention on the mutual recognition of national standards, calibrations, and measurement certificates issued by national metrology institutes, abbreviated **CIPM MRA**. Based on the results from international comparison measurements and the peer reviews of the quality management system the calibration and measurement capabilities (CMC) are listed in a publicly available database that is globally recognized by member states of BIPM (International Bureau of Weights and Measures) and accreditation bodies represented in ILAC (International Laboratory Accreditation Cooperation). As of November 2024, SMU has 381 entries in the CMC database, based on the services it provides. The list of CMCs can be found at the following link: <https://kcdb.bipm.org/>.

SMU has a certified quality management system that complies with the ISO 9001 standard. This system includes all activities conducted by SMU as a national metrological institute. The provided calibration services are following the ISO/IEC 17025 standard. In the case of reference materials, the ISO 17034 standard is followed.

The quality of calibration services is ensured through international verification under the **CIPM MRA** agreement. Since 2003, the quality management system of the SMU has been regularly assessed by members of the Technical Committee for Quality (TC-Q) of the regional metrological organization Euramet, e.V. Since 2009, technical experts from foreign national metrology institutes have been assessed individual calibration services through peer reviews (**EURAMET TC-Q PROJECT No. 1109 Peer reviews of QMSs**) with positive evaluations ensuring the up-to-date status of entries within the CMC database. The global trend of shifting from accreditation to cross peer-reviews between the national metrology institutes is evident. This approach provides a more sustainable system for the future while maintaining the same level of customer confidence in the metrology services provided.

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