

	DEPARTMENT OF COMMERCE National Institute of Standards and Technology National Voluntary Laboratory Accreditation Program	ISSUE DATE: October 30, 2024
	LAB BULLETIN	NUMBER: LB-158-2024
		LAP: Calibration
SUBJECT: Release of NIST Handbook 150-2, 2024 Edition		

NIST Handbook 150-2, which represents the technical requirements for the accreditation of laboratories under the NVLAP Calibration Laboratory Accreditation Program, has been revised. The new edition was revised with the participation of NIST technical experts for the represented calibration parameters.

The following are the primary changes that have been made with this revision of Handbook 150-2:

- Sections 7.6.2 and 7.8.1 have been updated to fully reflect the requirements of ILAC P14:2020.
- Section 7.7.2.1 has been updated to include the use of risk-based thinking in the establishment of proficiency testing intervals.
- Annex D sets out technical requirements not covered in NIST Handbook 150 that are applicable to a laboratory performing mechanical calibrations in the areas of force, mass, and now flow. The requirements related to flow are not new; rather they have been in place in the form of a NVLAP Lab bulletin, LB-100-2017, since August 2017 and have now been incorporated into the handbook.
- Requirements applicable only to legal metrology laboratories have been removed from Annex D, with the exception of flow. Note that this resulted in the complete removal of the volume section. (See the next bullet item for further details on legal metrology.)
- Annex E sets out logistical requirements not covered in NIST Handbook 150 that are applicable to the NVLAP assessment and accreditation of laboratories that are recognized by the NIST Office of Weights and Measures and that perform legal metrology as State weights and measures laboratories. NVLAP assesses these laboratories to the requirements of the current versions of ISO/IEC 17025, NIST Handbook 150, NIST Handbook 150-2 (this Handbook), and NIST Handbook 143. There is a new checklist that has been created and will be used for the assessment of State weights and measures laboratories, which can be located in the NVLAP Interactive Web System (NIWS) portal.

The 2024 edition of NIST Handbook 150-2 supersedes and replaces the 2019 edition. It is available from the [NVLAP website](#). As these revisions are updates, this edition is effective immediately for all calibration laboratories.

The NIST Handbook 150-2 Checklist and NIST Handbook 143 checklists have also been updated and are available in the NVLAP Interactive Web System (NIWS) Portal. The HB 150-2 checklist covers the individual annexes included in the handbook. Assessors will use these sections of the checklist only if there are requirements pertaining to your specific scope of accreditation. If those sections do not apply, they are to be left blank.

Technical guidance and information will be made available on the Calibration Program page of the [NVLAP website](#). Such guidance and information will not contain additional requirements.

Please contact your program manager for questions concerning the revised handbook or requirements for accreditation.