Specific Accreditation Guidance

Scope of accreditation - activity and service descriptors for calibration

January 2018

This document lists the descriptors for activities and services currently able to be accredited for calibration.

In addition to referencing ISO/IEC 17025 and the applicable activities and services listed below, scopes of accreditation will include the material/item/product calibrated, the determination, the technique used, the range/limitation and the measurement uncertainty.

Scopes of accreditation will also differentiate between calibration performed at the facility premises or those performed in-situ. In-situ calibrations include those performed at the client's premises or mobile services. The need to differentiate both services in the scopes of accreditation is that the calibration and measurement capability (CMC) will differ. The CMC includes the estimate of least measurement uncertainty for each measurement range.

The list below will be updated as new activities and/or services are accredited.

Activity	Service
Acoustical metrology	Calibration of acoustic equipment
	Calibration of acoustic standards and reference equipment
Chemical metrology	Calibration of breath alcohol instruments
	Calibration of dynamic gas blenders
	Calibration of gas analysers
	Characterisation of gases
Communications, EMR and EMC equipment	Calibration of communications, electromagnetic field strength and EMC test equipment
DC and low frequency electrical metrology	Calibration of electrical instrument calibrators
	Calibration of electrical standards
	Calibration of electrical measurement and test equipment
	Calibration of high-voltage/ high-current standards and equipment
Dimensional Metrology	Calibration of engineering equipment and precision instruments

Activity	Service
	Calibration of length and angle standards
	Calibration of limit gauges and reference standards
	Calibration of survey and alignment equipment
	Measurement of jigs, fixtures, cutting tools, machine tools, gears, splines and serrations
	Measurement of surface topography
Flow metrology	Calibration of atmospheric flow meters
	Calibration of flow measuring devices and systems
Force metrology	Calibration of force measuring and testing equipment
	Calibration of force standards
	Calibration of hardness standards and equipment
Ionising radiation	Calibration of ionising radiation standards and equipment
Magnetism	Calibration of magnetic instruments and equipment
Mass and Weighing Devices	Calibration of weighing devices
	Determination of mass
Optical metrology	Calibration of optical measuring equipment
	Calibration of optical standards and reference equipment
	Calibration of particle measuring devices
Pressure metrology	Calibration of pressure and vacuum measuring equipment
	Calibration of pressure standards
Speed and velocity	Calibration of speed measuring devices
	Verification of fixed speed detector installations

Activity	Service
Temperature metrology	Calibration of ancillary temperature measuring equipment
	Calibration of humidity measuring equipment
	Calibration of non contact temperature measuring equipment
	Calibration of temperature measuring equipment
	Calibration of temperature standards and reference equipment
	Verification of controlled enclosures
Time and frequency metrology	Calibration of frequency and time standards
	Calibration of frequency, time and waveform measuring equipment
Torque	Calibration of torque measuring and testing equipment
	Calibration of torque standards
Ultrasonics	Calibration of ultrasonic measuring equipment
Vibration metrology	Calibration of vibration equipment
	Calibration of vibration standards and reference equipment
Viscosity	Measurement of viscosity
Volume and density	Calibration of industrial volumetric equipment and bulk storage
	Calibration of laboratory volumetric glassware and measures
	Determination of density

Amendment Table

The table below provides a summary of changes made to the document with this issue.

Amendment
New document replacing the previous *Calibration Classes of Tests.* This new document describes the revised nomenclature for describing activities and services able to be covered by scopes of accreditation.