



## **ACCREDITATION CRITERIA FOR CALIBRATION LABORATORIES**

### **AC204**

**June 26, 2024**  
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### **PREFACE**

The attached accreditation criteria have been issued to provide all interested parties with guidelines on implementing performance features of the applicable standards referenced herein. The criteria were developed and adopted following public hearings conducted by the International Accreditation Service, Inc. (IAS), Accreditation Committee and are effective on the date shown above. All accreditations issued or reissued on or after the effective date must comply with these criteria. If the criteria are an updated version from a previous edition, solid vertical lines (|) in the outer margin within the criteria indicate a technical change or addition from the previous edition. Deletion indicators (→) are provided in the outer margins where a paragraph or item has been deleted if the deletion resulted from a technical change. These criteria may be further revised as the need dictates.

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# ACCREDITATION CRITERIA FOR CALIBRATION LABORATORIES

## 1. INTRODUCTION

1.1. **Scope:** These criteria set forth the requirements for obtaining and maintaining International Accreditation Service, Inc. (IAS), Calibration Laboratory accreditation. These criteria supplement the IAS Rules of Procedure for Calibration Laboratory Accreditation.

1.2. **Normative and Reference Documents:** Publications listed below refer to current editions (unless otherwise stated).

1.2.1. ISO/IEC Standard 17025, General requirements for the competence of testing and calibration laboratories.

1.2.2. ISO/IEC Standard 17000, Conformity assessment — Vocabulary and general principles.

1.2.3. ISO 17034 General requirements for the competence of reference material producers

1.2.4. JCGM 100:2008, GUM 1995 with minor corrections, Evaluation of measurement data – Guide to the expression of uncertainty in measurement.

1.2.5. ILAC P9, ILAC Policy for Participation in Proficiency Testing Activities.

1.2.6. ILAC P10, ILAC Policy on Metrological Traceability of Measurement Results.

1.2.7. ILAC P14, ILAC Policy for Measurement Uncertainty in Calibration

## 2. DEFINITIONS

2.1. Applicable definition of ISO/IEC Standard 17000 series apply.

2.2. JCGM 200:2012 International vocabulary of metrology – Basic and general concepts and associated terms.

## 3. ELIGIBILITY

Accreditation services are available to calibration laboratories which:

3.1. Perform calibrations of its own company (internal).

3.2. Perform calibrations of products of external organizations (external).

## 4. REQUIRED BASIC INFORMATION

Calibration laboratories must demonstrate compliance with the following requirements:

4.1. ISO/IEC Standard 17025, General requirements for the competence of testing and calibration laboratories.

4.2. IAS Rules of Procedure for Calibration Laboratory Accreditation.

4.3. ILAC P9, ILAC Policy for Participation in Proficiency Testing Activities.

4.4. ILAC P10, ILAC Policy on Metrological Traceability of Measurement Results.

- 4.5. ILAC P14, ILAC Policy for Measurement Uncertainty in Calibration.
- 4.6. Relevant IAS policy documents:
  - 4.6.1. IAS/CL/014 IAS Policy on Calibration, Traceability, and Measurement Uncertainty for Calibration Laboratories
  - 4.6.2. IAS/TL-CL/026 Policy on Off-Site Testing/Calibration
  - 4.6.3. IAS/TL-CL/031 IAS Policy on Proficiency Testing for Laboratories
  - 4.6.4. IAS/ADM/044 IAS Policy on Relocation of Accredited Organizations

## 5. ADDITIONAL INFORMATION

- 5.1. **Measurement Uncertainty:** Accredited calibration laboratories must report measurement uncertainty in all calibration reports.
- 5.2. **Proficiency Testing Activity:** Proficiency testing activity shall be completed in accordance with ILAC P9 and IAS/TL-CL/031, IAS Policy on Proficiency Testing for Laboratories.

## 6. LINKS TO ADDITIONAL REFERENCES:

- 6.1 Asia Pacific Accreditation Cooperation – [www.apac-accreditation.org](http://www.apac-accreditation.org)
- 6.2 International Laboratory Accreditation Cooperation – [www.ilac.org](http://www.ilac.org)
- 6.3 International Organization for Standardization – [www.iso.org](http://www.iso.org)
- 6.4 International Electrotechnical Commission – [www.iec.ch](http://www.iec.ch)
- 6.5 International Accreditation Service – [www.iasonline.org](http://www.iasonline.org)
- 6.6 Article on ISO/IEC 17025:2017 – <https://www.iasonline.org/wp-content/uploads/2018/01/The-New-ISO-IEC-17025-2017.pdf>
- 6.7 Bureau International des Poids et Mesures – <https://www.bipm.org/en/>

*These criteria were previously issued September 2002, May 2004, August 2006, April 2008, May 2010, June 2013, February 2016, April 2017, September 2018 and December 2021.*