

# IAS AccreditCom®

## Calibration Laboratory Accreditation Program

NEWSLETTER

OCTOBER **2026**

### Welcome to the **IAS Calibration Laboratories Accreditation Program** newsletter.

Our goal is to keep the IAS calibration laboratory community informed about the latest technical, administrative, and program developments that support a consistent and effective accreditation process.

This newsletter's intention is to provide updates on accreditation policies and procedures, revisions to IAS documents, interpretations of standards, assessor guidance, proficiency testing information, and other topics that impact accredited laboratories and assessors. By sharing timely information and practical insights, we aim to promote consistency in assessments, strengthen technical competence, and support continual improvement across our accreditation community.

Please send your comments and suggestions on the contents of this newsletter to ✉ Aherrera@iasonline.org.



### **Meet Praful Yelve** – Program coordinator, Calibration Laboratory Accreditation Program, IAS

**Mr. Praful Yelve** serves as Accreditation Manager – Asia & Gulf at IAS, where he is responsible for engaging with customers by providing technical support and addressing their inquiries to meet their expectations.

In addition, Praful conducts assessments for testing and calibration laboratories in accordance with ISO/IEC 17025; and he is also a qualified assessor for ISO/IEC 17020, ISO/IEC 17065, and ISO/IEC 17021-1.

Before joining IAS in 2020, Praful served as General Manager at the Indian conglomerate Godrej & Boyce Mfg. Co. Ltd., where he led the company's Calibration and Inspection business for more than 15 years. He is a member of professional organizations, including the Metrology Society of India (MSI) and NCSL International (NCSLI).

Praful also conducts training courses and workshops on topics related to laboratory activities, including ISO/IEC 17025 awareness, internal auditing, measurement uncertainty, metrology, calibration, and risk assessment. In addition, he serves as a faculty member for the IAS Assessor Workshop/ Training program.

Mr. Yelve holds a Diploma in Mechanical Engineering and has extensive experience in calibration, testing, and inspection. He has also completed several professional certification courses in the fields of calibration and testing.

### **Global ACI:** The New Organization Unifying ILAC and IAF

The **Global Accreditation Cooperation Incorporated (Global ACI)** formerly ILAC and IAF, is an international organization that brings together accreditation bodies to ensure consistent, high-quality accreditation practices across regions and globally in compliance with ISO/IEC 17011. Accreditation Bodies, such as IAS, are organized in regional groups. The Asia Pacific Accreditation Cooperation (APAC) is one of the regional groups that integrate the Global ACI. Accreditation Bodies participate in this organization as signatories of a Mutual Recognition Agreement (MRA) which is a key mechanism underpinning this system. This agreement formally recognizes their accreditations as equivalent. A calibration laboratory accredited by a signatory entity is trusted across borders without the need for re-evaluation. IAS accredited laboratories benefit from this global recognition as it enhances confidence in the validity of their accreditation, facilitating trade and regulatory approvals. Global recognition provides assurance to regulators that accredited laboratories meet internationally benchmarked standards.

**Global Accreditation Cooperation Incorporated**



IAS INTERNATIONAL ACCREDITATION SERVICE®



# **Document Updates for** Calibration Laboratory Assessors

IAS has released revised editions of several key documents that support the accreditation of calibration laboratories. Calibration Laboratory (CL) assessors and Technical Advisory Committee (TAC) members are encouraged to review these updates, as they include technical clarifications, policy changes, and editorial improvements that may affect future assessments.

The updated documents are:

- **IAS/CL/022 – IAS Guide for Representing Calibration Laboratory Scopes** (Revision: January 23, 2026)
- **IAS/CL/010 – Rules of Procedure for Calibration Laboratory Accreditation** (Revision: January 23, 2026)
- **IAS/ADM/044 – IAS Policy on Relocation of Accredited Organizations** (Revision: January 23, 2026)

## Highlights of the Revisions

### IAS/CL/022 – Guide for Representing Calibration Laboratory Scopes

- References have been updated, including alignment with **ILAC-G18:01/2024,** and terminology has been revised to reflect **ILAC P14** requirements related to the expression of measurement uncertainty.
- **Biomedical** has been added as a recognized calibration discipline.
- Clarification has been provided that the generic descriptors **Generate**, **Source**, and **Measure** are intended only for electrical calibration quantities.
- Additional guidance reinforces that when a calibration range includes zero, the measurement uncertainty cannot be expressed solely as a percentage of reading or output, avoiding the implication of zero uncertainty.
- A new example illustrates the preferred way to express calibration ranges using the "to" format (for example, *0 °C < x ≤ 100 °C*).

### IAS/CL/010 – Rules of Procedure for Calibration Laboratory Accreditation

- The required application documentation now explicitly includes a **Proficiency Testing (PT) Participation Plan**
- The fees section has been updated to reflect current IAS requirements.
- Editorial revisions and section numbering have been improved for greater consistency and readability.

### IAS/ADM/044 – Policy on Relocation of Accredited Organizations

- The revised policy introduces an exception to the requirement for an assessment at new premises for laboratories whose accreditation activities are conducted primarily through **on-site calibrations.**

Assessors are encouraged to become familiar with these revisions before conducting upcoming assessments. The updated documents are available through the IAS Portal and the IAS website. If you have questions regarding the implementation of these changes or their impact on accreditation activities, please contact the Calibration Laboratory Program team.

# **Common Findings** in Calibration Laboratory Assessments

Accreditation assessments are designed to verify compliance with ISO/IEC 17025 and IAS requirements while also helping laboratories strengthen their management systems and technical competence. Although each assessment is unique, several findings are encountered more frequently than others.

Among the most common findings are issues related to metrological traceability and calibration (Clauses 6.4.6 and 6.5), including incomplete evidence supporting the traceability of measurement results. During initial assessments, laboratories also frequently receive findings associated with method verification (Clause 7.2.1.5), where records do not fully demonstrate that standardized methods have been verified for their intended use.

Other recurring findings involve the planning and implementation of proficiency testing (PT) and interlaboratory comparisons (ILCs) (Clause 7.7.2), legally enforceable commitments to confidentiality (Clause 4.2.1), equipment records and status (Clause 6.4.13), and the implementation of intermediate equipment checks (Clause 6.4.10) and equipment verification before use (Clause 6.4.4).

By periodically reviewing these areas through internal audits and management reviews, laboratories can reduce the likelihood of nonconformities and maintain confidence in the validity and reliability of their calibration results.

# **Extending Your** Scope of Accreditation?

Inform IAS before the assessors arrive at your laboratory for the scheduled visit. IAS assessors plan their work in advance based on the size of your current scope. When you notify IAS ahead of time, the additional scope can be more easily accommodated, helping to avoid scheduling conflicts and unnecessary costs — and making the assessment process more efficient.

# The Guide to the Expression of Uncertainty in Measurement (GUM): **The Foundation of Reliable Calibration**

Accurate measurements are at the heart of every calibration laboratory. Whether calibrating a digital multimeter, pressure gauge, temperature sensor, or mass standard, laboratories must not only determine a measurement value but also quantify how confident they are in that result. This confidence is expressed through **measurement uncertainty**, and the internationally recognized framework for evaluating and reporting it is the **Guide to the Expression of Uncertainty in Measurement (GUM)**.

## What is the GUM?

The GUM was originally published in 1993 by a group of international organizations and is now maintained by the **Joint Committee for Guides in Metrology (JCGM)**, whose members include the BIPM, ILAC, ISO, IEC, OIML, and other leading metrology organizations. It establishes a common methodology for evaluating and expressing measurement uncertainty, ensuring that measurement results are consistent, transparent, and internationally comparable. (BIPM)

Rather than treating measurements as exact values, the GUM recognizes that every measurement is influenced by factors such as instrument performance, environmental conditions, reference standards, operator technique, and mathematical models. The Guide provides a structured process for identifying these influences, quantifying their contributions, and combining them into a single uncertainty value associated with the measurement result.

## Why is the GUM Important?

The GUM provides a common language for measurement uncertainty that is recognized worldwide. By following its principles, laboratories can demonstrate that their reported uncertainties are technically justified and can be trusted by customers, regulators, manufacturers, and other laboratories.

For calibration laboratories, the GUM supports:

- International comparability of calibration results.
- Confidence in measurement traceability.
- Reliable calibration certificates with well-founded uncertainty statements.





- Consistent decision-making when evaluating compliance with specifications.
- Mutual recognition of accredited calibration services across international accreditation arrangements.

These benefits are essential to laboratories operating under **ISO/IEC 17025**, which requires laboratories to evaluate measurement uncertainty using appropriate, scientifically valid methods. Although ISO/IEC 17025 does not mandate exclusive use of the GUM, its principles have become the accepted international basis for uncertainty evaluation. (ISO)

## Practical Value for Calibration Laboratories

For calibration laboratories, uncertainty evaluation is far more than a compliance exercise. It directly affects the quality and usefulness of every calibration certificate.

A properly developed uncertainty budget enables laboratories to:

- Demonstrate technical competence during accreditation assessments.
- Establish realistic Calibration and Measurement Capabilities (CMCs).
- Identify the dominant contributors to uncertainty and improve measurement processes.
- Support technically sound statements of conformity when requested by customers.
- Ensure consistent reporting among personnel and across different calibration disciplines.

Assessors frequently review uncertainty budgets during accreditation visits, making a solid understanding of GUM principles essential for both laboratory staff and technical assessors.

## The Evolution of the GUM

Although **JCGM 100:2008** remains the core reference document (a corrected edition of the original GUM), the guidance has evolved into a broader **GUM suite** that addresses modern measurement challenges. (BIPM)

Recent additions include:

- **GUM-6:2020 – Developing and Using Measurement Models**, which provides detailed guidance on constructing and validating measurement models, including statistical approaches and complex measurement relationships. This document is particularly valuable for laboratories developing advanced calibration methods or dealing with multiple influence quantities. (BIPM)
- **GUM-1:2023 – Introduction**, which replaces the earlier introductory guide and provides a modern overview of the complete GUM family. Rather than introducing new

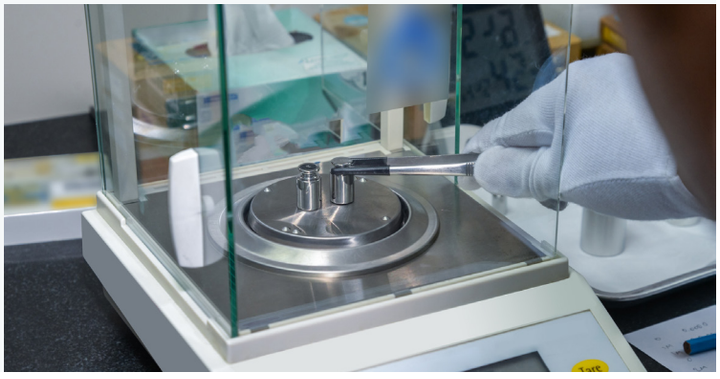
technical requirements, it explains the principles behind uncertainty evaluation, describes the growing suite of GUM documents, and helps users select the appropriate guidance for different measurement applications. (BIPM)

In addition, the JCGM continues to develop amendments and future guidance documents addressing topics such as non-linear measurement models and advanced methods for uncertainty evaluation, reflecting the evolving needs of modern metrology. (BIPM)

### Looking Ahead

As measurement science continues to advance, so does the guidance that supports it. Digital calibration, automated measurement systems, complex mathematical models, and emerging technologies require increasingly sophisticated approaches to uncertainty evaluation. The expanding GUM family is designed to address these challenges while maintaining the core principles that have made the Guide the international benchmark for more than three decades.

For calibration laboratories, remaining familiar with GUM developments is an investment in technical excellence. By applying its principles consistently, laboratories strengthen confidence in their measurement results, support global acceptance of their calibrations, and contribute to the international infrastructure that underpins trade, manufacturing, science, and innovation.



## Stay Informed About Updates to AC204 – Accreditation Criteria for Calibration Laboratories

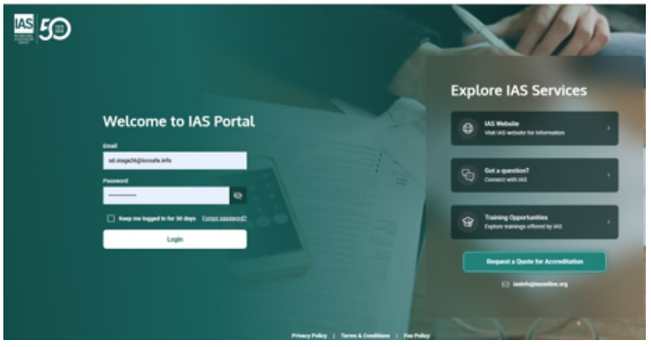
IAS Accreditation Criteria, including AC204, are periodically reviewed and updated to reflect changes affecting accredited organizations. Interested parties may propose revisions by submitting suggested changes and supporting rationale to IAS. Proposed revisions are reviewed by the IAS Accreditation Committee in a public forum, where they may be accepted, modified, or rejected.

Calibration laboratories should regularly check the latest version of AC204 to prepare for assessments and identify any new or revised requirements. Changes to the criteria are typically identified by a vertical line in the margin of the affected sections.

Following the June 2025 Accreditation Committee Hearing, the current AC204 criteria became effective **August 1, 2025**. Laboratories are encouraged to consult the IAS website for the most current version and information about future Accreditation Committee hearings.

## IAS Portal Upgrades: What's New for You

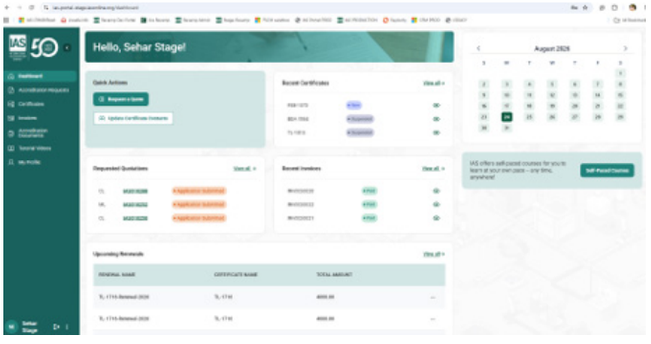
On **July 9, 2026,** IAS officially launched a newly upgraded Portal, redesigning the accreditation experience from the very first click. Whether you are a longtime customer or exploring accreditation for the first time, here is what has changed.




*The new IAS Portal welcome page*

The journey now starts with a cleaner welcome page, making it easy to request a quote, explore training opportunities, or connect directly with our team for any questions, before creating an account.

Once logged in, customers land on a personalized dashboard that brings everything into one view: recent certificates, quotations, invoices, and upcoming renewals, alongside a calendar and training resources. Certificate contacts can now be updated right from the dashboard, so technical, billing, and legal information stays current without an email to our team. On the Accreditation Requests page, every quote and application shows a clear status, with a simple option to request revision if a quote needs adjusting.




*The new customer dashboard*

Certificates now appear in an easy-to-scan card layout, with a Renew button that surfaces automatically as expiration approaches. Upcoming renewals can be paid in just a click, and every invoice can be viewed or downloaded as a PDF for easy recordkeeping.

Behind the scenes, IAS staff and assessors are also working more efficiently. A new Export feature supports quarterly reporting, and the Assessment module is now integrated directly into the Staff Portal.

These changes reflect our continued investment in making accreditation with IAS as smooth as possible. Thank you for being part of our community.

For any questions regarding the IAS Portal, you can contact Sehar Hameed at SHameed@iasonline.org or Darien Camacho at DCamacho@iasonline.org.

## International Journal of Conformity Assessment— **Metrology in Conformity Assessment**




The current issue of the *International Journal of Conformity Assessment* (IJCA) focuses on the Importance of Metrology in Conformity Assessment. Topics in this issue include the digital transformation of calibration management through the eTransCal system; the role of accreditation in economic diversification in the Gulf region; updated risk-based requirements for proficiency testing and interlaboratory comparisons; the importance of measurement traceability; the value of external quality assessment in improving diagnostic reliability; metrology's central role in conformity assessment; applications in sports; and the alignment of standards and regulations with sustainable development goals

Published by IAS, the IJCA provides a high-quality medium for the dissemination of knowledge and methods associated with global conformity assessment practices and concepts. IJCA is intended for both academics and practitioners in the conformity assessment field.

IJCA welcomes contributions on any aspect of conformity assessment, including testing, inspection, certification, and accreditation. Scholarly contributions from various disciplinary approaches are desirable, as well as novel, visionary, or pathbreaking research articles.

However, general interest and opinion articles addressing any aspect of conformity assessment are also welcome for consideration. All submissions must be relevant to the conformity assessment field, rigorous both conceptually and methodologically, and well written in a clear, concise, and logical manner. Read the latest issue here.

## **Assessor Positions** at IAS

IAS is looking for qualified individuals to become assessors for the Calibration Laboratory Program. Learn more about becoming an assessor.



## **2026** Events

The following events may be of interest to professionals who work for testing and calibration laboratories:

- **Technological Solutions in Mass Metrology Symposium,**
  Radom, Poland | October 6–8, 2026
- **Metrology Instrument & Equipment Exhibition**
  Hefei, China | November 19–20, 2026

## Training for **Calibration Laboratories**

IAS offers multiple training courses that help participants learn about key topics related to accreditation for testing and calibration laboratories. These courses are offered in live sessions in different time zones to accommodate the needs of our global customers. Training topics include:

- Understanding ISO/IEC 17025 for Testing and Calibration Labs
- Uncertainty of Measurement for Labs
- Internal Auditing for all Standards

View the complete training schedule and descriptions of courses.

## IAS at the **2026 NCSLI Workshop & Symposium**

Giulia Suriani and Praful Yelve represented IAS at the 2026 NCSLI Workshop & Symposium in Kansas City, where they presented a tutorial on the role of proficiency testing and interlaboratory comparisons in supporting the competence of accredited calibration laboratories.

The event provided an important opportunity to learn from leading experts, exchange ideas, and connect with metrology professionals from around the world. It also highlighted the strong sense of community within the measurement and accreditation fields—one built on collaboration, technical expertise, generosity, and a shared commitment to reliable measurement.

IAS's participation strengthened its visibility within the international metrology community and provided valuable insights to support the continued development of its Calibration Laboratory Accreditation Program.




Praful Yelve, Harry Spinks and Giulia Suriani at 2026 NCSLI Workshop & Symposium in Kansas City

# Important Security Alert: Fraudulent Emails Impersonating IAS Employees

Phishing attempts are increasingly common and sophisticated. These messages may use familiar names, look-alike email domains, and urgent payment requests to trick recipients into sharing information or changing payment instructions.

IAS recently became aware of a phishing attempt in which someone impersonated an IAS Accounting Specialist. The fraudulent message falsely stated that IAS had changed its banking information and instructed recipients to use new payment details.

The fraudulent scam email used an address ending in @iasonline.co. Legitimate IAS email addresses use the @iasonline.org domain, including Jamie Lee Karim's valid IAS email address.

## How to Recognize Phishing Emails:

- Check the sender's full email address for misspellings, extra characters, or look-alike domains.
- Be cautious of messages that create urgency or request immediate changes to payment, banking, or account information.
- Look for unusual wording, formatting issues, or requests that seem inconsistent with normal IAS communications.
- Do not rely on links, attachments, or payment instructions simply because the message appears to come from a familiar name.
- Verify any request involving banking or payment information by contacting IAS directly using known contact information, not contact details provided in the suspicious message.

## What You Should Do:

- If you receive a suspicious email, do not reply, click any links, open attachments, or provide information.
- Delete the email or report it as phishing through your email system.
- Do not update, send, or confirm payment information based on instructions in a suspicious or fraudulent message.
- If you are unsure whether a request is legitimate, contact IAS directly at 562-364-8201 before taking any action.
- Organizations should also review internal security procedures with their IT staff to help prevent phishing and other fraudulent activity.

## If You Responded to a Suspicious Email:

If you replied to the email, clicked a link, opened an attachment, or shared information, notify your IT department immediately and contact IAS management at 562-364-8201.

Protecting our customers and business partners is a top priority. Thank you for staying vigilant and helping prevent fraudulent activity.

## **Promote Your** Accreditation

IAS customers can showcase their accreditation using official IAS Accreditation Program symbols, which may be displayed in advertisements and brochures, on websites, at exhibit booths, and in other promotional materials. To request accreditation symbols, email requestamark@iasonline.org.

## Let Us Know **What You Think**

IAS is committed to continually improving our services and values your feedback. We use your input to enhance the support we provide to customers and stakeholders. Visit the Contact Us page of the IAS website to share your comments.

The International Accreditation Service (IAS) is a nonprofit accreditation body and a signatory member of Asia Pacific Accreditation Cooperation (APAC), and the Global Accreditation Cooperation Incorporated (Global ACI formerly IAF/ILAC).

## **Need Answers?** Get in Touch with IAS

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## IAS on **Social Media**

If you haven't connected with IAS on social media, you may be missing out on the latest accreditation news and updates. IAS shares periodic announcements, industry insights, and program information on dedicated pages across X, Facebook, LinkedIn, and YouTube. To find us, visit any of these platforms and search for International Accreditation Service. Be sure to like, follow, and subscribe.

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