



**PAC Guide & Criteria for Accreditation of  
Testing and Calibration Laboratories**

**PAC-G-05**

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## HISTORY OF THE DOCUMENT

Version number	Reason(s) of revision	Scope of the revision



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## **1. INTRODUCTION**

*PAC accreditation is granted to laboratories that have shown that they meet, and continue to meet, the requirements of ISO/IEC 17025:2017, relevant ILAC Policies and PAC regulations.*

*These documents require laboratories to demonstrate their technical competence as well as their ability to run a supporting quality system.*

### **Benefits of accreditation**

*PAC accreditation is visible proof that your laboratory has been thoroughly assessed by independent technical experts. Buyers and specifiers look for accreditation mark on reports and certificates, so that they can be sure that work has been done to agreed specification. Laboratories accredited by PAC are entitled to use the laboratory accreditation mark*

### **Who can seek accreditation?**

*Any organization that performs measurements, calibrations, objective tests, or examinations providing information for the diagnosis, prevention and treatment of disease of human being may seek accreditation, whether these activities are carried out in a permanent laboratory or on site.*

### **How does ISO 9000 Latest version fit with Laboratory Accreditation?**

*Laboratory accreditation is specifically designed to determine the laboratory's capability to conduct calibrations and tests in a technically competent and impartial manner and thus be able to issue valid reports and certificates in which the market can have confidence.*

*To determine this capability, three key elements are assessed:*

- *The impartiality of the laboratory*
- *The technical competence of the staff, the suitability of the equipment and environment and validity of individual test methodologies*
- *The effectiveness of the organization's management system.*

*It is this third element that is comparable with ISO 9001 certification. An effective management system is important, but it is only one of the elements necessary to gain laboratory accreditation.*

## **2. THE ACCREDITATION PROCESS**

### **2.1 Preparation of application**

*To gain accreditation, a laboratory must be fully conversant, and comply, with the requirements of ISO/IEC 17025:2017, relevant ILAC Policies and PAC regulations.*

*Applicants will be supplied with an information package containing the following:*

- *PAC application form (soft);*
- *PAC CAB agreement form;*
- *Self-assessment for testing/calibration labs quality system implementation;*
- *PAC fee structure;*
- *PAC Regulations*
- *Description of the accreditation scheme (this document);*
- *Some PAC publications (as guidance).*



*Processing of application shall be conducted exactly in accordance with PAC publications PB1G\_Handling of application.*

*Applicant lab shall submit the following:*

- *Fully completed PAC application form (soft)*
- *Two copies of PAC CAB Agreement to be signed and submitted with the application form.*
- *Self-assessment for testing/calibration labs quality system implementation.*
- *Lab quality system documents.*
- *Application fee according to R3G*
- *lab regulatory documents applicable to the applicant's scope;*
- *Laboratory documentation - Articles of Association, or equivalent, for review by PAC.*

*A preliminary meeting at PAC office is recommended for the purposes of clarifying initial questions. Afterwards, the application form is to be completed and signed by a duly authorized applicant representative, and submitted to PAC together with:*

*If the applicant lab has not sent the completed application form accompanied with the updated laboratory quality system, the application will be considered to be lapsed.*

*If the applicant wishes to be assessed at some later date, it shall have to re-apply to PAC for accreditation, and pay a further application charge.*

*In All stages of the accreditation process, only applicant lab staff members are allowed to attend, participate, and/or communicate with PAC. By lab staff members we mean: lab employees who occupy positions in lab organizational structure and its parent organizational structure. These lab staff employees will participate in the activities that match with their job description documented in their management system.*

## **2.1 Request for Assessment**

*The submission of the application form should be done when:*

- *The applicant is satisfied with his quality management system*
- *The applicant has produced the quality system and believed that it meets accreditation requirements*
- *The applicant produced a draft scope of calibrations/tests for which he wishes to become accredited*

*The applicant lab shall complete the application form, and send it, together with a copy of the laboratory quality system and relevant documents to PAC.*

*The application will be handled by PAC relevant accreditation manager, who will study the documentation. PAC relevant accreditation manager will contact the applicant lab to discuss the arrangements for the assessment process.*

## **3. THE ASSESSMENT PROCESS (IN BRIEF)**

*The main function of PAC is to assess and accredit the competence of laboratories to carry out specified calibrations/tests or types of calibration/test, and subsequently to ensure by monitoring that the required standards are maintained. Each applicant laboratory provides basic information on its activities, equipment and staff in the application form, and its quality documentation, but it is essential to check the competence of the laboratory by assessment in the laboratory and other sites, where appropriate. The purpose of this assessment is to*



*determine whether a laboratory complies with the PAC requirements for accreditation and the accreditation standard ISO/IEC 17025:2017.*

*In some circumstances specialized publications issued by PAC or other national, regional or international organizations, for example ILAC, provide guidance of these criteria. These publications are listed in the PAC publications list.*

*On receipt of a completed application form for accreditation, PAC relevant accreditation manager will deal with the application. He shall check that all documents indicated on the application form have been received with the application form. In addition, it shall be verified that all sections of the application form have been completed in full.*

*PAC relevant accreditation manager shall examine the quality system to check that it addresses all the key elements of a quality system as specified in the relevant standards. He also shall check if the application fee has accompanied the form and shall ensure that all necessary information is completed.*

*Should any additional information or documentation be required, this will be requested from the applicant.*

*When PAC relevant accreditation manager is satisfied that all the relevant information has been supplied the applicant shall be sent a notification of receipt of application.*

*Applicant laboratory should discuss the need for a pre-assessment visit with their PAC relevant accreditation manager. The discussion will also cover the scope-that is, the range of tests/calibrations of the accreditation it seeks. A pre-assessment visit can be designed to provide an over view of the laboratory's readiness for full assessment.*

*PAC relevant accreditation manager shall administer the entire application process. The information received shall be used for the preparation of the on-site assessment and shall be treated with appropriate confidentiality.*

*PAC shall identify an appropriate team leader, assessor/s and/or technical expert according to their area of expertise to allow for a full initial assessment of the applicant for the scope of accreditation. All assessment team shall be totally independent of any connection whatsoever with the applicant to be accredited. All assessment team appointed for a specific assessment shall comply with the requirements of PAC.*

*PAC shall notify the applicant in writing of the names and affiliations of the nominated assessment team. The notification shall seek the approval of the applicant to the nominated team. Objection to any nominated team members shall be in writing, include a detailed justification from the lab to his objection, and shall be lodged with PAC within seven working days of receipt of the nominations. Failure by the applicant lab to object to any of the nominated team members shall be considered as acceptance of the team as a whole.*

*Objections from the lab to any of the nominated assessment team will be investigated by PAC relevant accreditation manager. If PAC relevant accreditation manager is satisfied with the lab's justification to his objection, he will change this nominated team member, otherwise he shall inform the lab that his objection is not accepted and PAC will keep the nominated team. PAC relevant accreditation manager's decision shall be final.*

*The applicant lab will be advised of the fees for assessment visits before the visits take place, and it will be asked to confirm acceptance of these fees.*

*PAC relevant accreditation manager shall give team leader and assessor a copy of the lab*



*quality system and relevant procedures for document review according to the relevant accreditation procedure.*

*All documents given to any assessor shall be recorded. The assessment team shall sign confidentiality and impartiality agreement before starting the assessment.*

*Before assessment, or accreditation the applicant shall be asked to provide evidence of successful participation in proficiency testing, which involve testing of samples or calibrations of audit artifacts.*

*Technical experts are used as assessors to judge the competence of the laboratory to perform the calibrations/tests for which accreditation is sought. Their responsibility is therefore to assess a laboratory's compliance with ISO/IEC 17025:2017, and PAC requirements. Their assessment shall be confined to investigating and reporting the findings that result from observation and discussion in the laboratory and through examination of documentation.*

*All information obtained before, during or after assessment, including the fact that a particular laboratory has applied for accreditation, or that an application for accreditation has been deferred or rejected, shall be treated as strictly confidential by PAC staff, the external assessment team and PAC council and committees.*

*PAC staff member will normally visit the laboratory as part of the assessment team.*

*PAC relevant accreditation manager and team leader being familiar with PAC policies, procedures and regulations, will be able to respond during visits to inquiries from the laboratory management on such matters. PAC relevant accreditation manager will communicate and assist his/her assessment team and the laboratory management with the interpretation of PAC requirements in appropriate circumstances.*

*PAC laboratories assessment procedures are applicable to all sizes of laboratories. Assessment team will take into account the size and complexity of the organization when assessing the quality system of a laboratory. The quality system must provide assurance that the laboratory, whatever its size or complexity, or the location where work is carried out, meets PAC requirements.*

*All costs associated with the initial assessment must be paid prior to the assessment date. Failure to receive payment shall stop the application process and the applicant shall be notified by telephone and in writing. The application process shall be re-started only after receipt of the full amount.*

*The accreditation process shall be according to the flowchart in item 10 below. Any non-conformity with accreditation requirements found will be notified to the applicant in writing at the end of the assessment visit, and it will be asked to state how it will clear them. An assessment report shall be sent to the Lab after the assessment visit containing all the non conformities and the assessment team's recommendation. All non-conformities shall be cleared to the satisfaction of the assessment team before the accreditation process can continue. The applicant shall be granted accreditation according to the process in item 4 below.*

*Applicant's obligations for timings are according to regulation (R5G accreditation process timings and response actions).*

*This accreditation will be confirmed by consecutive assessment visits, with a full re-assessment on the fourth anniversary of accreditation.*



## **4. THE PROCESS FOR GRANTING ACCREDITATION**

### **4.1 Appointing the members of the Technical Committee (TC)**

*TC is formed for each applicant according to its specific discipline or scope. Each TC shall consist of at least two members. All these members shall be not involved in the assessment process in any way. PAC has TC members covering the main disciplines and sectors within which it operates, who are drawn from experts in the field as appropriate.*

### **4.2 Conducting the Technical Committee meeting.**

*After the TC members are appointed, they shall sign confidentiality and impartiality agreement before their meeting. TC members with PAC relevant accreditation manager shall review the lab assessment file to verify its harmony with the relevant international standard and PAC requirements. The assessment file shall include the proposed scope of accreditation assessed, the assessment report, the resolution of all nonconformities and the recommendation of the assessment team. The decision of the TC is taken by consensus. The TC may decide that further actions or information are required. When satisfied, the TC shall recommend the accreditation of the lab on the specified scope. This shall be recorded on the TC report.*

### **4.3 Conducting the Accreditation Committee (AC) meeting.**

*PAC AC is headed by executive director of PAC. It has 7 members representing the stakeholders. In case that the TC recommends the accreditation of the laboratory, the AC meeting shall be invited to meet. The AC shall meet as needed typically every one month. Meeting papers shall include assessment reports for the assessment activities and the TC reports. The AC may invite to the attendance of its meeting whoever it sees fit for help with experience in the field of accreditation activities without having a vote to be counted in the proceedings. When setting up a meeting, the AC members shall be required to sign a confidentiality and impartiality agreement. PAC accreditation director shall attend the meeting to provide any required information about accreditation subjects and to be responsible for the administrative work of the meeting.*

### **4.4 Decision making and granting accreditation**

*The AC meeting shall be considered legal if more than 50 % of its members attend. Resolutions shall be based on the majority of votes of the attending members, with PAC executive director vote as casting vote. Members involved with the lab being discussed, will neither participate nor attend the voting process. The AC can decide granting the accreditation to the lab directly or require further actions to be taken or information to be provided. This shall be recorded on the AC minutes of meeting. In case that the AC decides granting the accreditation to the lab, PAC shall inform the lab and ask for its representative to receive the accreditation certificate with the approved scope of accreditation.*

*PAC publishes a directory of accredited labs, which contains details of the accredited scope of each accredited organization. The directory, which is updated regularly, is published on PAC's website.*

## **5. FEEDBACK, COMPLAINTS AND APPEALS**

*After receiving the accreditation certificate the accredited laboratory will be asked to fill a feedback form about PAC's performance during the accreditation process which shall be used*



*for improvement of assessors' performance and/or accreditation process. If the lab has any complaint it can file this complaint at PAC or by phone. Also, if AC did not grant the accreditation to the lab, the lab has the right to appeal. If the lab decides to appeal, it can file an appeal at PAC complaints and appeals shall be handled by PAC's quality department and according to PAC's procedure (PB3G-Guidelines for dealing with complain and appeal) which is available on demand. A neutral appeal committee shall be appointed to resolve this appeal according to the mentioned procedure.*

## **6. Post Accreditation**

*PAC publishes a directory of accredited CABs, which contains details of the accredited scope of each accredited organization. The directory, which is updated regularly, is published on PAC's website.*

## **7. PAC consecutive assessment visit**

*PAC consecutive assessment visit will take place annually to reflect the range of activity of the accredited lab.*

*It will normally cover a review of the records associated with assessment activity to determine continued conformity of the organization's management system. Witnessed assessments or post-assessment audits will also be programmed.*

*Following granting of accreditation, labs shall be subject to periodic consecutive assessment visits according to an annual program prepared by the PAC testing/calibration labs accreditation manager. PAC will make its program to have a first assessment visit within the last 6 months at the 1<sup>st</sup> year of accreditation, and a second assessment visit within last 6 months at the 2<sup>nd</sup> year of accreditation, and a third assessment visit within last 6 months at the 3<sup>rd</sup> year of accreditation.*

*In all cases the duration between two sequential assessment visits shall not exceed than 2 years.*

*If the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> assessment showed that the lab needs more frequent visits then PAC would decide on more 4<sup>th</sup> un-planned assessment visit.*

*The purpose of sequential assessment visit is to:*

- *confirm the accredited lab's continued conformity with relevant criteria, and,*
- *confirm that a lab is operating within its accredited scope and in accordance with PAC Conditions*

*Any revisions to the documented system will be reviewed during these visits. Where the changes are extensive additional time may need to be scheduled.*

*In the consecutive assessment visits PAC sampling procedures applied as follow:*

### **For Initial and Re-Assessment:**

*No sampling is applied. The lab and all other locations (if any) will be assessed as part of the initial/re-assessment. All scopes applied for, will be subject to an office assessment and technical review.*

### **For Consecutive Assessment [4 years]**

*During a single assessment visit, assessors will not be expected to check the whole of the testing/calibration work for which a lab is accredited. However, all the accreditation activities covering all areas of competence and a good representative sample of all lab authorized personnel shall be assessed during the validity period of the accreditation*



*certificate. Equally not all the quality system needs to be covered at each assessment visit. The assessment team will take into account the outcomes of the previous audits to be covered. The team leader will normally look at the management review(s), internal audit(s) and compliant records at each assessment visit.*

*Following granting of accreditation, labs shall be subject to periodic consecutive assessment visits according to an annual program prepared by the PAC testing/calibration labs accreditation manager. PAC will make its programs to have a first assessment visit within the first 12 months after the initial visit, and a second one within 18 months from the first, If the lab status from initial accreditation, 1<sup>st</sup> and 2<sup>nd</sup> assessment showed that the lab needs more frequent visits then PAC decide on more 3<sup>rd</sup> assessment visit.*

## **8. Re-Assessment and Renewal of Accreditation**

*Re-assessment visit will take place in four-year intervals. A re-assessment visit will involve a comprehensive re-examination of the CB's quality management system. Assessment activities will be similar in format and in detail to the initial assessment.*

*The CB must apply for renewal of accreditation at least six months before the expiry of the validity of accreditation. If the CB doesn't apply for renewal of accreditation, three months before the expiry of accreditation it shall be presumed that the CB is no longer interested in accreditation and the accreditation status of the CB shall expire on the validity date mentioned in the certificate. Time frame will be as mentioned in PAC's regulation (R5G).*

*At each re-assessment, the accredited CB current schedule of accreditation shall be considered in advance of the visit. Following the re-assessment visit, which will follow the same general procedure as the initial assessment, and the receipt of evidence of clearance of nonconformities, the report and recommendations will be considered, (for a recommendation by the TC and a decision by the PAC AC), for re-accreditation for a further four year period. A new certificate of accreditation is issued on the renewal; however the certificate number remains the same.*

## **16. Extensions to accredited scope**

*Accredited organizations may be able to extend the scope of their operation into activities beyond those covered by their accredited scope. Extensions to scope require formal application using the form provided by PAC, and will be dealt with on a case by case basis.*

*The application will need to be accompanied by documentary evidence of competence in relation to the relevant industrial and technical activities.*

*When an accredited CB applies for an extension of its schedule of accreditation, including the addition of new specified staff, it may be combined with the assessment visit of an imminent scheduled visit, or an extra visit is arranged in the normal way. It is helpful in visit planning if the application for extension of scope is submitted to PAC at least 3.5 months before the next scheduled visit.*

*If the extension is assessed during a scheduled visit it shall not be allowed to reduce the effectiveness and coverage of the normal consecutive/re-assessment visits.*

## **9. REFERENCES**

- ISO/IEC 17025:2017
- ILAC G26



## 10. THE ROUTE TO ACCREDITATION

