



# The American Association for Laboratory Accreditation

***1109 - Fields of Accreditation for ISO/IEC 17025 Laboratories***

Document Revised:  
August 3, 2010

Page 1 of 5

## Introduction

**This document is for use assisting with Part II Section B of F101 – Application for Accreditation – ISO/IEC 17025 Laboratories.**

Note 1: Requirement documents contain requirements in addition to ISO/IEC 17025. In some cases the documents relate to a specific program offered by A2LA. Laboratory participation in these programs is voluntary. In cases where a requirement document is referenced, this document may be obtained from our website at [www.A2LA.org](http://www.A2LA.org).

Note 2: A Selection List is a list that identifies the specific tests/calibrations and types of tests/calibrations for which you are seeking accreditation. The list should be prepared in enough detail so that the desired scope of accreditation for each field selected can be properly determined and presented on the A2LA web site. In cases where a selection list is referenced this list may be obtained from our website at [www.A2LA.org](http://www.A2LA.org). Either a completed selection list or draft scope of accreditation must be returned with this application. If a draft scope of accreditation is provided an electronic version in word format is preferred. For environmental laboratories, scope templates have been created in lieu of selection lists. These can be found on the A2LA website. See also Section II and V.

Note 3: A Specific Checklist is a checklist that incorporates information from a requirement document for the purpose of evaluation and documentation of those requirements during an assessment. If the applicant elects to participate in a field or sub-field where a checklist is noted, that checklist must be obtained, completed and submitted with this application. Specific checklists may be obtained from our website at [www.A2LA.org](http://www.A2LA.org).

## Fields

Fields are shown as **bold underlined**. For more information regarding Requirements, Selection Lists and Checklists see “Before You Begin” Note 1, 2 and 3 from *1109A-Instructions-Application For Accreditation: ISO/IEC 17025 Laboratories*.

**Acoustics & Vibration** – Includes tests involving the measurement of noise emission, noise exposure, sound transmission, sound absorption, and vibration. **For selection list see F201 – Scope of Accreditation Selection List: Acoustics & Vibration Testing Laboratories.**

**Biological** – Includes tests involving biological, microbiological and some veterinary diagnostic analyses. Also includes activities related to *Good Manufacturing Practices (cGMP) and Good Laboratory Practice (GLP)* requirements.

**Foods and Pharmaceuticals** – This program is designed to meet the needs of laboratories performing microbiological analyses in the examination of foods, feeds, ingredients in the production of food, in-process food samples, and final products. See *R204 – Specific Requirements: Food and Pharmaceutical Testing Laboratory Accreditation Program* and *P102a - Policy on Reference Material Traceability for Life Sciences Testing Laboratories* for more information.

### Checklists Needed:

*C203 - Specific Checklist: Food and Pharmaceutical Testing Laboratory Accreditation Program.*

*C204 - Specific Checklist: Combined ISO/IEC 17025 and Food and Pharmaceutical Testing Laboratory Accreditation Program Requirements [Optional]*

*C212 - Specific Checklist: Current Good Manufacturing Practices (cGMP)[Optional]*

*C214 - Specific Checklist: Good Laboratory Practice (GLP)[Optional]*



## The American Association for Laboratory Accreditation

1109 - Fields of Accreditation for ISO/IEC 17025 Laboratories

Document Revised:  
August 3, 2010  
Page 2 of 5

### Fields and Sub-Fields (continued)

**Veterinary Testing** – This program is designed to meet the needs of users looking for quality veterinary testing services, and has incorporated the requirements as established by the OIE (World Organization for Animal Health *Quality Standard and Guidelines for Veterinary Laboratories: Infectious Diseases, Edition 2, 2008*). The scope of this Program includes evaluation of diagnostic and clinical veterinary laboratories and animal hospitals whose activities include commercial, government, academic testing, international diagnostic testing for infectious diseases, and screening for growth promoters and drug/chemical residue that includes antibiotics, antihelminthetics, pesticides, metals, organics, DNA/RNA, and GMO. See *R216 – Specific Requirements: Veterinary Laboratory Accreditation Program* and *P102a - Policy on Reference Material Traceability for Life Sciences Testing Laboratories* for more information. **For selection list see F205 – Scope of Accreditation Selection List: Chemistry Testing Laboratories.**

#### Checklists Needed:

*C211 – Specific Checklist: Veterinary Laboratory Accreditation Program.*

**Calibration** – Includes measurements typically conducted by standards and calibration laboratories for a variety of measurement quantities. See *R205 – Specific Requirements: Calibration Laboratory Accreditation Program* for more information. **For selection list see F204 – Scope of Accreditation Selection List: Calibration Laboratories.**

**Checklist Needed:** C207 - Specific Checklist: Calibration Laboratory Accreditation Program.

- **For optional accreditation to ANSI/NCSLI Z540.3-2006** see R205a: Annex to Specific Requirements: ANSI/NCSLI Z540.3-2006.

**Checklist Needed:** C207a – Annex to Specific Checklist: ANSI/NCSLI Z540.3-2006

- **For optional accreditation using Calibration Measurement Uncertainty Software** see R205b - Annex: Specific Requirements: Calibration Measurement Uncertainty Software.

**Checklist Needed:** C207b - Annex: Specific Checklist: Calibration Measurement Uncertainty Software

- **For accreditation of Dimensional Tests** see R205c: Annex - Specific Requirements: Dimensional Testing Parameters

**Checklist Needed:** C205c: Annex - Specific Checklist: Dimensional Testing Parameters

**Chemical** – Includes chemical analyses and detection including instrumental and automated methods, and associated physical tests on materials and products, pharmaceutical products, environmental samples pertinent to foods and veterinary diagnostic testing. Also includes some activities related to *Good Manufacturing Practices (cGMP and Good Laboratory Practice (GLP)* requirements. **For selection list see F205 – Scope of Accreditation Selection List: Chemistry Testing Laboratories.**

**Foods and Pharmaceuticals** – This program is designed to meet the needs of laboratories performing chemical analyses in the examination of foods, feeds and pharmaceutical products, ingredients in the production of food, in-process food samples, environmental samples pertinent to foods and final products. See *R204 – Specific Requirements: Food and Pharmaceutical Testing Laboratory Accreditation Program* and *P102a - Policy on Reference Material Traceability for Life Sciences Testing Laboratories* for more information.

#### Checklists Needed:

*C203 - Specific Checklist: Food and Pharmaceutical Testing Laboratory Accreditation Program*

*C204 - Specific Checklist: Combined ISO/IEC 17025 and Food and Pharmaceutical Testing Laboratory Accreditation Program Requirements [Optional]*

*C212 - Specific Checklist: Current Good Manufacturing Practices (cGMP)[Optional]*

*C214 - Specific Checklist: Good Laboratory Practice (GLP)[Optional]*

**Animal Drug Testing** – This program is designed to meet the needs of users looking to become accredited for special animal drug testing to meet the requirements of any of the following testing providers: The Association of Official Racing Chemists (AORC),



## The American Association for Laboratory Accreditation

**I109 - Fields of Accreditation for ISO/IEC 17025 Laboratories**

Document Revised:  
August 3, 2010

Page 3 of 5

The Iowa State University's International Interlaboratory Testing Program (IITP), Cornell University's Interstate Drug testing Alliance (IDTA) and the Testing Integrity Program administered by the University of California- Davis.). See *R203 – Specific Requirements: Animal Drug Testing Laboratory Accreditation Program* and *P102a - Policy on Reference Material Traceability for Life Sciences Testing Laboratories* for more information. **For selection list see F202 – Scope of Accreditation Selection List: Animal Drug Testing Laboratories.**

### Fields and Sub-Fields (continued)

#### Checklist Needed:

*C201 - Specific Checklist: Animal Drug Testing Laboratory Accreditation Program*

*C202 - Specific Checklist: Combined ISO/IEC 17025 and Animal Drug Testing Laboratory Accreditation Program Requirements [Optional]*

**Veterinary Testing** – This program is designed to meet the needs of users looking for quality veterinary testing services, and has incorporated the requirements as established by the OIE (World Organization for Animal Health *Quality Standard and Guidelines for Veterinary Laboratories: Infectious Diseases, Edition 2, 2008*). The scope of this Program includes evaluation of diagnostic and clinical veterinary laboratories and animal hospitals whose activities include commercial, government, academic testing, international diagnostic testing for infectious diseases, and screening for growth promoters and drug/chemical residue that includes antibiotics, anthelmintics, pesticides, metals, organics, DNA/RNA, and GMO. See *R216 – Specific Requirements: Veterinary Laboratory Accreditation Program* and *P102a - Policy on Reference Material Traceability for Life Sciences Testing Laboratories* for more information. **For selection list see F205 – Scope of Accreditation Selection List: Chemistry Testing Laboratories.**

**Checklists Needed:** *C211 – Specific Checklist: Veterinary Laboratory Accreditation Program.*

**Construction Materials** – Includes tests to determine the engineering properties of materials and products used in construction. The scope of this field includes the following materials areas: concrete and aggregates, cement, soils, bituminous materials, roofing materials, masonry, steel, and nondestructive tests as related to construction. See *R208 – Specific Requirements: Construction Materials Testing Laboratory Accreditation Program* for more information. **For selection list see F208 – Scope of Accreditation Selection List: Construction Materials Testing Laboratories.**

**Checklist Needed:** *C210 – Specific Checklist: Construction Materials Testing Laboratory Accreditation Program.*

**Electrical** - Includes tests of an electrical and electronic nature performed on instruments, equipment, appliances, components, and materials. **For selection list see F209 – Scope of Accreditation Selection List: Electrical Testing Laboratories.**

**Telecom, Specific Absorption Rate, Bluetooth, Product Safety, CDMA/TDMA/GSM/OTA, Wireless, NEBS**

**EMC/EMI** – This program is designed for laboratories that perform tests to show compliance of equipment subject to the FCC EMC Regulations contained in 47 CFR Parts 2, 15, and 18.

**Checklist Needed:** *C216 – Specific Checklist: FCC Technical Assessment Evaluation*

**Automotive EMC (AEMCLAP)** – This program is designed to meet the needs of prospective laboratories currently performing automotive electromagnetic compatibility (EMC) testing and seeking to become recognized by the organizations Chrysler, Ford, and General Motors (GM). Accreditation to the A2LA AEMCLAP requirements is only a preliminary step to becoming recognized by the organizations Chrysler, Ford, and General Motors (GM) and accreditation to the A2LA AEMCLAP requirements does not ensure recognition by the aforementioned organizations. The AEMCLRP Committee reserves the option of reviewing the data gathered as part of the laboratory assessment and proficiency testing activities and a member company of the Committee may choose to withhold their recognition of the accreditation of an EMC laboratory based on their analysis of the information gathered. Confirmation of recognition is obtained from these organizations directly. See *R202 – Specific Requirements: Automotive EMC Laboratory Accreditation Program* for additional information.



## The American Association for Laboratory Accreditation

**I109 - Fields of Accreditation for ISO/IEC 17025 Laboratories**

Document Revised:  
August 3, 2010  
Page 4 of 5

### Fields and Sub-Fields (continued)

**Environmental** – Tests for constituents in various EPA environmental media. This program is designed to meet the needs of users looking to become accredited for performing chemical and/or biological analyses with regards to environmental monitoring and testing. The specific criteria for environmental testing are contained within the 2003 NELAC Standard – Chapter 5. For more information see *R206 – Specific Requirements: Environmental Testing Laboratory Accreditation Program, P102a - Policy on Reference Material Traceability for Life Sciences Testing Laboratories*, **For Scope Templates see F210 – Scope of Accreditation Selection List: Environmental Testing Laboratories and I104 – Instructions for Creating and Editing Scopes of Accreditation for the Environmental Field of Testing and F213 – Scope of Accreditation Selection List: Environmental Lead Testing Laboratories.**

**For Kentucky Underground Storage Tank Testing Laboratory Accreditation Program** see *R210 – Specific Requirements: Kentucky Underground Storage Tank Testing Laboratory Accreditation Program*, and *R211 – Specific Requirements: Wyoming Storage Tank Remediation Testing Laboratory Accreditation Program*. **For Selection List see F210b - Scope of Accreditation Selection List: Wyoming Storage Tank Remediation Testing Laboratories**  
**Checklist Needed:** *C205 - Specific Checklist: Combined ISO/IEC 17025 and Environmental Testing Laboratory Accreditation Program Requirement or Environmental Lead (Pb) – C206 - Specific Checklist: Environmental Lead Testing Laboratory Accreditation Program.*

**For Environmental Air Testing Laboratories** see *C205a - Appendix Checklist: Environmental Air Testing Laboratories*  
**For Environmental Microbiology Testing Laboratories** see *C205b - Appendix Checklist: Environmental Microbiology Testing Laboratories*

**For Environmental Chemistry Testing Laboratories** see *C205c - Appendix Checklist: Environmental Chemistry Testing Laboratories*

**For Environmental Toxicity Testing Laboratories** see *C205d - Appendix Checklist: Environmental Toxicity Testing Laboratories*

**For Environmental Radiochemistry Testing Laboratories** see *C205e - Appendix Checklist: Environmental Radiochemistry Testing Laboratories*

**For Environmental Asbestos Testing Laboratories** see *C205f - Appendix Checklist: Environmental Asbestos Testing Laboratories*

**For Wyoming Storage Tank Remediation Testing Laboratory Accreditation Program** see *C209 - Specific Checklist: Wyoming Storage Tank Remediation Testing Laboratory Accreditation Program*

**Forensic Examination** – This program is designed to meet the needs of users looking to become accredited for requirements specifically applicable to laboratories performing testing related to forensic examination. This includes testing performed on items where the results of that testing will be used in a civil or criminal proceeding. For more information see *R221 - Specific Requirements - Forensic Examination Accreditation Program-Testing.*

**Checklist Needed:** *C223 – Specific Checklist: Forensic Accreditation Program (Testing)*



## The American Association for Laboratory Accreditation

**I109 - Fields of Accreditation for ISO/IEC 17025 Laboratories**

Document Revised:  
August 3, 2010  
Page 5 of 5

### Fields and Sub-Fields (continued)

**Geotechnical** – Includes tests of soil and rock to provide engineering data. This program is designed to meet the needs of users looking to become accredited as a competent geotechnical testing services provider. Internationally accepted accreditation criteria and standards developed by ASTM committees form the basis for accrediting laboratories under this field. The scope of this program is suited specifically for users in Texas. Users in other States or parts of the U.S.A. may seek to include a different mix of required tests and this will be so noted on the scope of accreditation for laboratories which seek accreditation to meet the needs of that user. The scope of this field includes the following materials areas: soils, soil-cement, rock, peat materials and geotextiles. Applications for accreditation may be made for several tests in each area. Additional areas may be added upon request. The requirements of this program are not applicable to the Putting Green Materials Testing Program. See *R209 – Specific Requirements: Geotechnical Engineering Testing Laboratory Accreditation Program* for more information. **For the selection list see F211 – Scope of Accreditation Selection List: Geotechnical Engineering Testing Laboratories.**

**Putting Green Materials** – This program is designed to meet the needs of those laboratories seeking to meet the requirements of the United States Golf Association (USGA). See *R213 -Specific Requirements: Putting Green Materials Testing Laboratory Accreditation Program* for more information. **For the selection list see F219 – Scope of Accreditation Selection List: Putting Green Materials Testing Laboratories.**

**Information Technology** – This program is designed to meet the needs of users looking to become accredited for requirements specifically applicable to laboratories performing testing related to information technology. This includes tests on software products, software systems, and software projects and any aspect of a hardware and or software environment that is under test. For more information see *R214–Specific Requirements: Information Technology Testing Laboratory Accreditation Program*.

**Checklist Needed:** *C213- Specific Checklist: Information Technology Testing Laboratory Accreditation Program*

**Mechanical** – Includes tests, measurements, and evaluation of physical properties of materials, components, and assemblies. **For selection list see F214 – Scope of Accreditation Selection List: Mechanical Testing Laboratories**

**Nondestructive**: Includes examination of materials, components, and assemblies to detect discontinuities without damaging the material, component or assembly. **For selection list see F215 – Scope of Accreditation Selection List: Nondestructive Testing Laboratories.**

**Thermal**: Includes tests involving the measurement of fire, heat, flow, temperature, and humidity. **For selection list see F212 – Scope of Accreditation Selection List: Thermal Testing Laboratories.**

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