



**ACCREDITATION COMMISSION FOR CONFORMITY ASSESSMENT BODIES**

**LAB Accreditation Guidance Document**

**Document Title: Classification System For Testing Laboratories**

**Document Number: ACCAB-GD-3.0-T**

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<b>Revision Number</b>	<b>Revision Date</b>	<b>Paragraph Number</b>	<b>Description of Revision</b>	<b>Revision Author</b>
01	1/06/12	3.3.1.12	Addition of Scopes	
02	1/08/12	3.3	Reference to SI	
03	1/03/2017	GD-3.3.6	Addition in Classification	

<b>GD-3.1</b>	<b>Purpose:</b>
GD-3.1.1	To ensure that the ACCAB applicants and accredited Testing Laboratories can precisely define as possible each of the tests parameter for which it seeks accreditation.
<b>GD-3.2</b>	<b>Scope:</b>
GD-3.2.1	This guidance note is published for the informative use for the applicants and accredited Testing Laboratories who follow the ACCAB accreditation.
<b>GD-3.3</b>	<b>Operation:</b>
GD-3.3.1	The scope of accreditation issued by ACCAB to its accredited laboratories is a formal document. The scope contains information for which accreditation has been granted in regards to types of tests performed, techniques used and detection limits.
GD-3.3.2	It is the obligation of the laboratory to prepare its proposed scope of accreditation before its initial assessment. The proposed scope of accreditation will be examined by the assessor during onsite assessment for accuracy and entirety. The laboratory and the assessor are required to sign the proposed scope of accreditation and submit it to ACCAB for review with the assessment report. The proposed scope of accreditation may be modified by ACCAB as a result of technical review of the assessment report.
GD-3.3.3	The scope of accreditation is subject to review during the accreditation and re-accreditation assessment. In case of routine surveillance the scope is subject to review in case it requires any changes.
GD-3.3.4	It is ACCAB policy to use SI (The International System of Units) for reporting results of measurements on scope of accreditation.
GD-3.3.5	ACCAB suggests that NIST SP 811 and ISO 31 series documents are used as direct guidance on the use of symbols and numbers. As it is obligatory on part of the ACCAB applicants and accredited Testing Laboratories to know and understand the requirements of SI on their scope of accreditation.
GD-3.3.6	The classification is based on the Classification System for Testing employed by the National Association of Testing Laboratories (NATA) in Australia. The ACCAB acknowledges the copyright of NATA in this respect.

	Classification	Sub Classifications
GD-3.3.6.1	Acoustic measurement	<input type="checkbox"/> Noise emission <input type="checkbox"/> Noise strain <input type="checkbox"/> Sound transfer <input type="checkbox"/> Sound absorption
GD-3.3.6.2	Ballistic measurement	<input type="checkbox"/> Influence parameter for shooting weapon
GD-3.3.6.3	Fire testing	<input type="checkbox"/> Fire proofing <input type="checkbox"/> Inflammability <input type="checkbox"/> Ignition ability <input type="checkbox"/> Fire dispersion equipment for fire detection <input type="checkbox"/> Alarm <input type="checkbox"/> Protection & extinguishing
GD-3.3.6.4	Dimension measurement	<input type="checkbox"/> Products <input type="checkbox"/> Components <input type="checkbox"/> Machine tools <input type="checkbox"/> Fixtures etc excluding calibration
GD-3.3.6.5	Testing of electronic equipments/products	<input type="checkbox"/> Testing of electronic equipments/products
GD-3.3.6.6	Testing of electromagnetic capability (EMC)	<input type="checkbox"/> Testing of electromagnetic capability (EMC)
GD-3.3.6.7	Chemical material(s) testing	<input type="checkbox"/> Metal Material <input type="checkbox"/> Wood & Wooden material (paper included) <input type="checkbox"/> Plastic & rubber <input type="checkbox"/> Concrete & ballast <input type="checkbox"/> Textile & leather
GD-3.3.6.8	Geology	<input type="checkbox"/> Physical geology <input type="checkbox"/> Petrology <input type="checkbox"/> Mineralogy & related activities
GD-3.3.6.9	Testing of personal safety & protection equipments	<input type="checkbox"/> Testing of personal safety & protection equipments
GD-3.3.6.10	Non destructive testing (NDT)	<input type="checkbox"/> X-ray <input type="checkbox"/> Gamma & neutron radiography <input type="checkbox"/> Turbulence stream <input type="checkbox"/> Ultrasound <input type="checkbox"/> Magnetic & liquid penetration investigations
GD-3.3.6.11	Information technology	<input type="checkbox"/> Information technology
GD-3.3.6.12	Chemical testing	<input type="checkbox"/> Organic methods, instrumental

		<input type="checkbox"/> Inorganic methods, instrumental <input type="checkbox"/> Physical methods <input type="checkbox"/> Petroleum chemistry <input type="checkbox"/> Biochemistry <input type="checkbox"/> Food Chemistry
GD-3.3.6.13	Corrosion testing	<input type="checkbox"/> Testing of reaction between product & environment
GD-3.3.6.14	Physical material(s) testing	<input type="checkbox"/> Metal materials <input type="checkbox"/> Wood & Wooden material (paper included) <input type="checkbox"/> Plastic & rubber <input type="checkbox"/> Concrete & ballast & asphalt <input type="checkbox"/> Furniture structures <input type="checkbox"/> Textile & leather <input type="checkbox"/> Odontological materials <input type="checkbox"/> Surface materials(e.g. sports covers, roofing) <input type="checkbox"/> Others
GD-3.3.6.15	Metallurgical testing	<input type="checkbox"/> Examination in order to determine structure & properties of metals & alloys for metallography <input type="checkbox"/> Micro hardness macro & micro examination with the help of optical scanning and electro-optical technique <input type="checkbox"/> X-ray diffraction & other techniques
GD-3.3.6.16	Microbiological testing	<input type="checkbox"/> Conventional culture methods and immunological methods <input type="checkbox"/> Bacteriology <input type="checkbox"/> Mycology <input type="checkbox"/> Virology <input type="checkbox"/> Parasitology <input type="checkbox"/> Food Microbiology
GD-3.3.6.17	Examination of the environments influence on products & equipments	<input type="checkbox"/> Examination of equipments <input type="checkbox"/> Packing <input type="checkbox"/> Components & materials under simulated environmental condition for storage <input type="checkbox"/> Transport & use consist of vibrations, shock drop, impact, acceleration, temperature, humidity, pressure, corrosion & formation of fungus
GD-3.3.6.18	Behaviour	<input type="checkbox"/> Test which measures and characterizes function, results and effectiveness of mechanisms, equipments or building <input type="checkbox"/> Food Rheology and other Physical Testing;
GD-3.3.6.19	Sensory analysis	<input type="checkbox"/> Characterization of products, e.g. food, for human

		evaluation of test, odour & appearance
GD-3.3.6.20	Security	<input type="checkbox"/> Security examination of construction, material, equipment & consumer products (cloths, furniture & fixtures, toys, pram & electrical consumer goods)
GD-3.3.6.21	Taxonomy	<input type="checkbox"/> Qualitative and qualitative determination of plants and animals
GD-3.3.6.22	Ionizing radiations and radio activity	<input type="checkbox"/> Ionizing radiations and radio activity
GD-3.3.6.23	Molecular biology	<input type="checkbox"/> Investigation of materials and products by use of molecular biological methods, including pointing out, identification & quantification of micro organism( bacteria, algae, fungus, single cell parasite, virus & prions) and macro molecules (DNA, RNA, proteins, polysaccharides, lipid & lipopolisaccharides).Example of molecule biological techniques are polymer chain reaction (PCR), restriction enzyme analysis pulse field electrophoreses, RNA/DNA- hybridization, DNA microarrays (GenChips)
GD-3.3.6.24	Biology	<input type="checkbox"/> Use of biological systems (Cell cultures, animal & plants <input type="checkbox"/> Detection and/or quantification of vitamins, toxins Food) etc. <input type="checkbox"/> Determination of cytotoxicity of materials & products
GD-3.3.6.25	Genetic modified organisms (GMO)	<input type="checkbox"/> Genetic modified organisms (GMO) <input type="checkbox"/> Molecular Biology (including genetically modified organisms);
GD-3.3.6.26	Veterinary medicine	<input type="checkbox"/> Veterinary medicine
GD-3.3.6.27	Biobanks	<input type="checkbox"/> Applies bio-banks not working in the medical field
GD-3.3.6.28	Forensic examinations	<input type="checkbox"/> Forensic examinations
GD-3.3.6.29	Construction material testing	<input type="checkbox"/> Soil <input type="checkbox"/> Aggregates <input type="checkbox"/> Bituminous mixture <input type="checkbox"/> Concrete <input type="checkbox"/> Stabilized Material <input type="checkbox"/> Rock

		<input type="checkbox"/> Peat material <input type="checkbox"/> Geo-textile <input type="checkbox"/> Asphalt <input type="checkbox"/> Clay
GD-3.3.6.30	<input type="checkbox"/> Renewable Energy	<input type="checkbox"/> Tidal and wind <input type="checkbox"/> Solar energy
GD-3.3.6.31	<input type="checkbox"/> Environmental	<input type="checkbox"/> Radiochemistry & radiology <input type="checkbox"/> Asbestos sampling and analysis <input type="checkbox"/> Soil sampling and Chemistry analysis <input type="checkbox"/> Water <input type="checkbox"/> Gases <input type="checkbox"/> Air <input type="checkbox"/> Occupational hygiene <input type="checkbox"/> Paints & Coating <input type="checkbox"/> Drug of abuse <input type="checkbox"/> Noise Emission
GD-3.3.6.32	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Effectiveness of Pesticide <input type="checkbox"/> Agricultural Product and material <input type="checkbox"/> Water <input type="checkbox"/> Seed testing
GD-3.3.6.33	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Tension <input type="checkbox"/> Compression <input type="checkbox"/> Corrosion <input type="checkbox"/> Creep/Creep Rupture <input type="checkbox"/> Displacement <input type="checkbox"/> Environmental Condition <input type="checkbox"/> Environmental Simulation
GD-3.3.6.34	Any other	