


Policy		
 LABORATORY ACCREDITATION BUREAU	Subject: Major Field Parameters with Related Disciplines	Policy 002.1
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PURPOSE

The purpose of this document is to provide the definitions for the Major Field Parameters with Related Disciplines for the Testing, Calibration, Dimensional Inspection, and L-A-B specific accreditation programs. These major fields with related disciplines are utilized to define the requirements of L-A-B Policy 002 - Proficiency Testing, Assessor Qualifications and Scope Definitions.

Testing Major Fields with Related Disciplines


1. Acoustical	
a. Acoustic Characteristics of Structures and Materials	
b. Acoustic Performance	
c. Field Measurement of Sound	
d. Sound Absorption	
e. Sound Power	
f. Sound Transmission Loss	
g. Other	
2. Biological	
a. Aquatic Biology	
b. Cell Culture	
c. Commodity Seed Testing	
d. DNA Analysis	
1. Extraction	
2. Quantitation	
3. Specimen Collection	
4. Electrophoresis	
5. PCR Amplification	
e. Ecotoxicology	
f. Effective Tests on Biocides	
g. Effectiveness of Pesticides (insecticides, fungicides, herbicides)	

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h. Insect infestation	
i. Industrial Cultures	
j. Maintenance of Culture Collections	
k. Meat and Fish Species Testing	
l. Media Quality Control (accreditation applicable only to the suppliers of media)	
m. Pharmacological and Biochemical Tests on Foods, Stockfoods and their Additives	
n. Pharmacological Tests on Other Materials	
o. Plant Growth Regulating Substances	
p. Plant Pathogens	
q. Plants and Plant Material for Presence of Disease	
r. Qualitative Analysis of GMO	
s. Quantitative Analysis of GMO	
t. Resistance to Microbial Attack (textile, fabric, paper, paints and coatings)	
u. Seed Testing	
v. Sensory Evaluation Tests on Foods	
w. Sterility Test on Pharmaceuticals	
x. Testing of Surfaces in Abattoirs	
y. Tests on Human Pharmaceutical and Biological Products	
z. Tests on Veterinary Pharmaceutical and Biological Products	
aa. Terrestrial Biology	
bb. Tests on Substances for Potential Genetic Activity	
cc. Waters, Including Effluents	
dd. Other	
3. Microbiology	
a. Bacteriology (Identification, enumeration and / or classification)	
b. Mycology (Identification, enumeration and / or classification)	
c. Phycology (Identification, enumeration and / or classification)	

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d. Tests on Cosmetics, Perfumes and Essential Oils	
e. Tests on Foods and Waters (Including Beverages)	
f. Tests on Surgical Materials	
g. Tests on lubricants, Fuels and Oils	
h. Tests on Pulp, Paper, Packaging Material	
i. Other	
4. Chemical	
a. Spectroscopy	
1. Atomic Absorption	
2. Optical Emission (OES)	
3. Inductively Coupled Plasma (ICP)	
4. Direct Current Plasma (DCP)	
5. Fluorimetric	
6. Infrared	
7. Fourier Transform Infrared (FTIR)	
8. Luminescence	
9. UV / Visible	
10. X-Ray Diffraction	
11. X-Ray Fluorescence	
12. Nuclear Magnetic Resonance (NMR)	
13. Electron Spin Resonance (ESR)	
14. Mass Spectroscopy	
15. Nuclear Activation Analysis	
16. Raman	
17. Other	
b. Surface Analysis Techniques	
1. Auger Electron Spectroscopy	

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2. Electron Microprobe Spectroscopy	
3. Electron Spectroscopy for Chemical Analysis (ESCA)	
4. Secondary Ion Mass Spectroscopy (SIMS)	
5. Other	
c. Physical Properties	
1. Density	
2. Particle Size	
3. Porosity	
4. Colligative Properties	
5. PH	
6. Viscosity	
7. Specific Gravity	
8. Other	
d. Microscopy	
1. Light Microscopy	
2. Phase Contrast (PC)	
3. Polarized Light Microscopy (PLM)	
4. Chemical Microscopy	
5. TEM (Transmission Electron Microscopy)	
6. SEM (Scanning Electron Microscopy)	
7. Other	
e. Chromatography	
1. GC (Gas Chromatography)	
2. HPLC (High Performance Liquid Chromatography)	
3. GPC (Gel Permeation Chromatography)	
4. Ion Chromatography	
5. GC / MS (Gas Chromatography / Mass Spectroscopy)	

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6. LC / MS (Liquid Chromatography / Mass Spectroscopy)	
7. Thin Layer / Paper Chromatography	
8. Electrophoresis	
9. Other	
f. Wet Chemistry Measurements	
1. Gravimetric	
2. Titrametric (Volumetric)	
3. Other	
g. Radio Activity Measurements	
1. Liquid Scintillation Counting	
2. Gamma Counting	
3. Other	
h. Electrochemical	
1. Polarography	
2. Electrochemical Deposition	
3. Potentiometric Analysis	
4. Other	
i. Thermal Analysis	
1. DTA (Differential Thermal Analysis)	
2. DMTA (Dielectric Mechanical Thermal Analysis)	
3. DETA (Dielectric Thermal Analysis)	
4. DSC (Differential Scanning Calorimetry)	
5. Calorimetry	
6. TGA (Thermogravimetric Analysis)	
7. TMA (Thermomechanical Analysis)	
8. Other	
j. Microchemical Elemental Analysis	

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k. Miscellaneous	
1. Specific Ion Electrode Analysis	
2. TOC (Total Organic Carbon)	
3. TOX (Total Organic Halogen)	
4. Assaying	
5. Fire Assaying	
6. Emissions	
7. Other	
5. Construction Materials	
a. Cements & Cementitious Materials	
1. Sampling	
2. Portland Cement	
3. Blended Cement	
4. Masonry Cement	
5. Building Lime	
6. Supplementary Cementitious Material	
7. Masonry Mortar	
8. Other	
b. Concrete	
1. Sampling	
2. Mixing Concrete in the laboratory	
3. Consistence	
4. Air Content of Freshly Mixed Concrete	
5. Mass Per Unit Volume of Freshly Mixed Concrete	
6. Bleeding	
7. Making and Curing Test Specimens in the Field	
8. Making and Curing Test Specimens in the Laboratory	

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9. Compression Tests on Moulded Specimens	
10. Compression Tests on Hardened Concrete Cores	
11. Indirect Tensile Tests	
12. Flexural Strength Tests	
13. Mass Per Unit Volume of Hardened Concrete	
14. Drying Shrinkage	
15. Securing Cores from Hardened Concrete	
16. Cement Content of Hardened Concrete	
17. Creep Tests	
18. Modulus of Elasticity Determinations	
19. Setting Time	
20. Mixer Uniformity Tests	
21. Admixtures	
22. Other	
c. Cement and Clay Based Products	
1. Roofing Tiles	
2. Clay Pipes and Fittings	
3. Concrete Culverts	
4. Concrete Pipes	
5. Fibre Cement Pipes & Fittings	
6. Fibre Cement Flat Sheet	
7. Fibre Cement Corrugated Sheet	
8. Other	
d. Refractories	
1. Sampling	
2. Cold Compressive Strength	
3. Cold Modulus Strength	

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4. Other	
e. Aggregates	
1. Sampling	
2. Sample Preparation	
3. Bulk Density	
4. Particle Density and Water Absorption	
5. Sieve Analysis	
6. Material Finer than 75mm	
7. Material Finer than 2mm	
8. Particle Shape Tests	
9. Flakiness Index	
10. Angularity Number	
11. Fine Particle Size Distribution in Road Materials	
12. Aggregate Crushing Value	
13. Wet / Dry Strength Variation	
14. Los Angeles Value	
15. Soundness Tests	
16. Light Particles	
17. Weak Particles	
18. Clay and Fine Silt	
19. Organic Impurities other than Sugar	
20. Sugar	
21. Sulphur in Slag Aggregates	
22. Potential Alkali Reactivity by Mortar Bar	
23. Potential Alkali Reactivity by Chemical Method	
24. Petrographic Examination of Slag Aggregate	
25. Degradation Tests	

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26. Moisture Content	
27. Polished Stone Value	
28. Coarse Aggregate Quality by Visual Comparison	
29. Apparent Particle Density	
30. Voids in Dry Compact Fillers	
31. Iron Unsoundness	
32. Resistance to Stripping	
33. Frictional Resistance	
34. Crushed Faces	
35. Other	
f. Bituminous Materials	
1. Sampling	
2. Bitumens	
3. Tars	
4. Fillers	
5. Cutback Bitumens	
6. Bitumen Emulsions	
7. Polymer Modified Bitumens	
8. Asphalts	
9. Other	
g. Soils	
1. Sampling	
2. Classification Tests	
3. Chemical Tests	
4. Compaction and Density Tests	
5. Strength and Consolidation Tests	
6. Reactivity Tests	

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7. Other	
h. Masonry Units and Segmental Pavers	
1. Sampling	
2. Dimensional Tests	
3. Strength Tests	
4. Resistance Tests	
5. Density and Moisture Tests	
6. Permeability and Absorption Tests	
7. Other	
i. Gypsum and Gypsum Products	
1. Sampling	
2. Gypsum Plaster for Building Purposes	
3. Gypsum Plaster Board	
4. Fibrous Plaster Products	
5. Glass Fibre Reinforced Gypsum Plaster	
6. Other	
j. Road Pavement and Surfaces	
1. Vehicle Count and Classification	
2. Surface Profile Tests	
3. Surface Characteristics	
4. Structural Tests	
5. Other	
k. Rocks	
1. Moisture Content Tests	
2. Porosity and Density Tests	
3. Chemical Tests	
4. Petrographic Examination	

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5. Strength Tests	
6. Swelling and Slake Durability Tests	
7. Other	
I. Masonry	
1. Structural Tests	
2. Other	
m. Road Making Material	
1. Glass	
2. Geotextiles	
3. Paint	
4. Other	
n. Pedestrian Surfaces	
1. Wet Pendulum Frictional Resistance	
2. Dry Floor Frictional Resistance	
3. Other	
o. Construction Materials Testing Equipment	
1. Nuclear Moisture Testing Equipment	
2. Liquid Limit Base	
3. Dial Gauge and Electronic Indicators	
4. Elastic Force Measuring Devices	
5. Load Cells	
6. Other	
p. Other Materials	
q. Other Tests	
6. Electrical	
a. Measure	
1. Alternating Current (AC)	

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2. Direct Current (DC)	
3. Resistance	
b. Alternating Voltage	
c. Capacitors	
d. CDMA / TDMA / GSM / OTA	
e. Cells and Batteries	
f. Conducting Materials, Conductors and Conductivity	
g. Dielectric	
h. Direct Voltage	
i. Electric Field Intensity	
j. Electromagnetic Compatibility - Emission	
k. Electromagnetic Compatibility - Immunity	
l. Electronic Components	
m. EMC / EMI	
n. Environmental Simulation	
o. High power	
p. High Voltage / High Power Testing	
q. High Voltage Impulse and Disturbance	
r. Indicating and Recording Instruments	
s. Inductors and Transformers	
t. Insulating Materials and Insulators	
u. Magnetic Field Flux Density	
v. Magnetic Materials and Instruments	
w. NEBS	
x. Other	
y. Partial Discharge	
z. Physical Properties	

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aa. Precision Transfer Instruments	
bb. Product Safety	
cc. Resistors, Resistance Materials and Resistivity	
dd. RF and microwave radiation hazard	
ee. RG Shielding Effectiveness	
ff. Sequence Impedance	
gg. Signal Source	
hh. Spark	
ii. Specific Absorption Rate	
jj. Temperature Coefficient	
kk. Voltage Standards	
ll. Wireless	
7. Environmental	
a. Drinking Water	
1. Chemical Testing	
I. Organic	
II. Inorganic	
III. Physical	
IV. Miscellaneous	
2. Toxicity Testing	
3. Microbiology Testing	
4. Radiochemical Testing	
5. Asbestos Testing	
b. Non-Potable Water	
1. Chemical Testing	
I. Organic	
II. Inorganic	

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III. Physical	
IV. Miscellaneous	
2. Toxicity Testing	
3. Microbiology Testing	
4. Radiochemical Testing	
5. Asbestos Testing	
c. Solid and Chemical Material	
1. Chemical Testing	
I. Organic	
II. Inorganic	
III. Physical	
IV. Miscellaneous	
2. Toxicity Testing	
3. Microbiology Testing	
4. Radiochemical Testing	
5. Asbestos Testing	
d. Biological Tissue	
1. Chemical Testing	
I. Organic	
II. Inorganic	
III. Physical	
IV. Miscellaneous	
2. Toxicity Testing	
3. Microbiology Testing	
4. Radiochemical Testing	
5. Asbestos Testing	
e. Air and Emissions	

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1. Chemical Testing	
I. Organic	
II. Inorganic	
III. Physical	
IV. Miscellaneous	
2. Toxicity Testing	
3. Microbiology Testing	
4. Radiochemical Testing	
5. Asbestos Testing	
8. Information Technology	
a. Information Security Evaluation	
b. Gaming Software Tests	
c. Acceptance Tests	
d. Functionality Tests	
e. Software Products	
f. Software Systems	
g. Performance Tests	
h. Stability Tests	
i. Compatibility Tests	
j. Other	
9. Mechanical *(Must also include the material or product tested as defined at the end of section)	
a. Abrasion	
a. Falling Sand	
b. Taber	
c. Wyzenbeek	
d. Other	
b. Compression	

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c. Conditioning	
d. Color	
e. Corrosion	
f. Creep / Creep Rupture	
g. Displacement	
h. Drop	
i. Ductility	
1. Bend	
2. Formability	
3. Drawability	
4. Flaring	
j. Durability and Cycle Testing	
k. Dynamometer Testing	
l. Environmental Simulation	
1. Accelerated	
2. Altitude	
3. Cyclic	
4. Durability Simulation	
5. Explosion	
6. Fungus	
7. Low Temperature	
8. High Temperature	
9. High Pressure	
10. Humidity	
11. Immersion	
12. Radioactivity	
13. Salt Spray	

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14. Sea Water Immersion	
15. Temperature Shock	
16. Sun Exposure	
17. Simulated Sun Exposure	
18. Other	
m. Extension	
n. Fatigue	
1. Axial	
2. Flexural	
3. Rotating Beam	
4. Torsional	
o. Flexural	
p. Force	
q. Friction	
r. Fracture	
1. Charpy	
2. IZOD	
3. Impact	
4. Plane Strain Fracture Toughness	
5. Crack Opening Displacement	
6. Nil Ductility Transition	
7. Drop Weight Tear	
s. Hardness	
t. Metallography	
1. Preparation of Samples	
2. Microstructure	
3. Inclusion Content	

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4. Grain Size	
5. Hydrogen Embrittlement	
6. Macroetching	
7. Microetching	
8. Depth of Decarburization	
9. Case Depth	
u. Material Properties	
1. Adhesion	
2. Ash Content	
3. Flexural	
4. Viscosity	
5. Chemical Resistance	
6. Chip Resistance / Gravelometer	
7. Cleanability	
8. Melt Flow Rate	
9. Melt Volume Rate	
10. Melt Point	
11. Tear Strength	
12. Shear Strength	
13. Viscosity	
14. Volatile Loss	
15. Deflection Temperature	
16. Peel	
17. Solvent Resistance	
18. Water Absorption	
19. Shrinkage	
v. Pressure	


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w. Shear	
x. Speed	
y. Surface Roughness	
z. Stress / Rupture	
aa. Tear	
bb. Tension	
1. High Temperature	
2. Low Temperature	
3. Poisson's Ratio	
4. Proof Load	
5. Wedge	
6. Ultimate Strength	
cc. Torsion	
dd. Torque	
ee. Vacuum	
ff. Other	

Mechanical Testing - Material or Product Being Tested	
T1 - Abrasives	T18 - Packaging / Containers
T2 - Adhesives / Sealants	T19 - Paper / Paperboard / Pulp
T3 - Aircraft Components	T20 - Plastics / Polymers / Related Products
T4 - Assemblies	T21 - Pipes / Hoses
T5 - Automotive Components	T22 - Pressure Vessels
T6 - Ceramics	T23 - Rubber / Rubber Products
T7 - Coatings	T24 - Rope / Cordage
T8 - Engines / Engines Components	T25 - Springs / Energy Absorbing Devices


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T9 - Fasteners / Threaded Fasteners	T26 - Textiles / Related Products
T10 - Films	T27 - Timber / Timber Products
T11 - Furniture	T28 - Tools
T12 - Gaskets / Seals	T29 - Valves / Fittings
T13 - Glass / Glass Products	T30 - Windows / Doors
T14 - Gypsum / Gypsum Products	T31 - Welds / Welded Test Specimens
T15 - Leather / Leather Products	T32 - Other
T16 - Metals and Alloys	


10. Non-Destructive	
a. Radiographic	
1. Digital	
2. Film	
3. Determination of Wall Thickness	
4. Interpretation of Radiographs	
b. Ultrasonic	
1. Examination of Ferritic Steels	
2. Examination of Aluminum Alloys	
3. Examination of Austenitic Steels	
4. Examination of Clad Steels	
5. Examination of other Specified Metals	
6. Examination of specified non-metals	
7. Examination of Bonded Metals	
8. Examination of Components in Service	
9. Thickness Measurement	
10. Specialist	

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11. Other	
c. Acoustic Emission Testing	
d. Magnetic Particle Testing	
e. Penetrant Testing	
f. Electromagnetic Testing	
g. Underwater Non-Destructive Tests	
h. Visual Inspection of Materials	
i. Visual Inspection of Specified Items (Supplementary to NDT)	
j. Thermography	
k. Leak Testing Using Differential Pressure Box	
l. X-Ray Thickness	
m. Other	
11. Vibration	
a. Acceleration	
b. Classic / Random Vibration	
c. Dynamic Balancing	
d. Shock	
e. Vibration Performance	
f. Vibration Characteristics of Materials and Structure	
g. Other	
12. Optical & Radiometric	
a. Radiant flux	
b. Broad-Band Irradiance	
c. Luminous Intensity	
d. Distribution of Luminous Intensity	
e. Luminous Flux	
f. Luminance	

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g. Illuminance	
h. Broad-Band Visible Light Measurements	
i. Retroreflection	
j. Performance Tests on Luminaries	
k. Performance of Lighting Installations	
l. Spectral measurements of light sources	
m. Spectrophotometry	
n. Detectors	
o. Ionizing radiation	
p. Performance Tests on Lasers and High Radiant Sources	
q. Other	
13. Thermal	
a. Determination of Thermal Properties of Materials	
b. Flammability	
c. Tests on Fire Protection Equipment	
d. Tests on Fire Detection Systems	
e. Fire Tests on Building Materials and Structures	
f. Fire Tests on Textiles and Related Materials	
g. Fire Tests on Plastic and Plastic Products	
h. Performance Tests on Gas Appliances and Components	
i. Performance Tests on Oil appliances and Components	
j. Performance Tests on Solid Fuel Appliances and Components	
k. Performance Tests on Electrical Appliances and Components	
l. Performance Tests on Solar Appliances and Components	
m. Performance Tests on Air Conditioning Units and Components	
n. Hygrometry	
o. Motor Vehicle Safety Tests	

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p. Environmental Tests	
q. Other	

Calibration Major Fields with Related Discipline

1. Electricity and Magnetism	
a. Voltage	
b. Resistance	
c. Current	
d. Inductance	
e. Capacitance	
f. Magnetic Properties	
g. Electrical Temperature Simulation	
h. Other	
2. Electricity and Magnetism / Time and Frequency	
a. Oscilloscopes	
b. Other	
3. Time and Frequency	
a. Frequency / Period	
b. Time Dissemination	
c. Other	
4. Ionizing Radiation	
a. Dosimetry	
b. Neutron Measurements	
c. Radioactivity	
d. Other	

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5. Length	
a. Laser Frequency	
1. Dimensional Equipment	
b. Dimensional Metrology	
1. Artifacts and Standards 1D	
2. Artifacts and Standards 2D	
3. Artifacts and Standards 3D	
4. Hand tools and precision gages 1D	
5. Hand tools and precision gages 2D	
6. Hand tools and precision gages 3D	
7. Other (ie. Flatness, Surface Plates, Roughness, Threads)	
6. Vibration	
a. Accelerometry	
b. Vibration	
c. Other	
7. Thermodynamic	
a. Fixed Point Cells	
b. Humidity	
c. Thermocouples	
d. Thermodynamic Devices (all)	
e. Rhodium – IR devices	
f. Standard Platinum Resistance Thermometers	
g. Other	
8. Sound in Air	
a. Acoustic	
b. Other	

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9. Photometry	
10. Radiometry	
11. Mass	
a. Force	
b. Gravity	
c. Density	
d. Flow	
e. Hardness	
f. Scales and Balances	
g. Mass Standards	
h. Pressure	
i. Vacuum	
j. Torque	
k. Viscosity	
l. Other	
12. Amount of Substance	
a. Chemical	
b. Conductivity and pH	
c. Other	
13. Luminous Intensity	

Policy

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Dimensional Inspection Major Fields with Related Discipline

1. Length – Dimensional Inspection	
a. Dimensional Measurement 1D	
b. Dimensional Measurement 2D	
c. Dimensional Measurement 3D	
d. Other	

Revision History

Revision	Date	Revised By	Brief Description of Revision
Original Issue	11/01/06	Jason Stine	Original Issue
1	1/12/07	Jason Stine	Added Outlined Numbering to Document Added "Other" to each Testing Related Discipline Added Testing Major Field Construction Materials Added Testing Major Field Environmental Added Testing Major Field Information Technology Changed Cal / Mass Fluid Flow to Flow
2	6/1/09	Jason Stine	Reformat; Re-Categorized Environmental Fields; Updated various Fields

APPROVED:



DATE: 6/1/09