
	Philippine Accreditation Bureau Guidance Document Class of Test- Chemical Testing	Document ID	LA/GD09
		Issue Number	01
		Revision Number	0
		Effectivity Date	January 2015
		Page	Page 1 of 11

## Class of Test Structure – Chemical Testing

	Philippine Accreditation Bureau Guidance Document Class of Test- Chemical Testing	Document ID	LA/GD09
		Issue Number	01
		Revision Number	0
		Effectivity Date	January 2015
		Page	Page 2 of 11

## Introduction

Accreditation in the field of Chemical Testing is described by classes and sub-classes of test.

The classes of test shown below are first order description of a laboratory's accreditation coverage. Most accreditations are described in more detail and usually include reference to specific determinations, analytical techniques, relevant standards test methods and specifications or in-house test methods and, in some cases, include analytical ranges and limits of reporting. Some tests are listed in the fields of Biological Testing or Mechanical Testing as well as in the field of Chemical Testing. Accreditation for these tests may be granted in whichever field of testing best suits the testing authority concerned.

The scope of accreditation may be extended provided that the laboratory complies with conditions for accreditation for the classes of test or specific tests involved. Accreditation may be granted for tests performed in mobile laboratories, field laboratories or locations, or marine test rafts as well as in formal laboratory accommodation. Where the existing classes of test do not cover the needs of a laboratory, the Technical Committee on Chemical Testing welcomes proposals for additional classes to be included in this field.

### 2.01 Metals and alloys


- .01 Ferrous materials
- .02 Copper and copper alloys
- .03 Aluminium and aluminium alloys
- .04 Tin and tin alloys
- .05 Lead and lead alloys
- .06 Magnesium and magnesium alloys
- .07 Zinc and zinc alloys
- .08 Nickel, chromium, cobalt and their alloys
- .09 Titanium and titanium alloys
- .10 Tungsten and tungsten alloys
- .11 Precious metals
- .12 Sampling
- .13 Other tests
- .14 Other metals and alloys

### 2.02 Metallic coatings and treatment solutions

- .01 Metallic coatings
- .02 Conversion coatings
- .03 Plating solutions
- .04 Anodising solutions
- .05 Metal finishing materials
- .06 Sampling

### 2.03 Ores and Minerals

- .01 Iron ores
- .02 Copper ores
- .03 Aluminium ores
- .04 Tin ores
- .05 Lead ores
- .06 Zinc ores
- .07 Nickel ores
- .08 Manganese ores

	Philippine Accreditation Bureau Guidance Document Class of Test- Chemical Testing	Document ID	LA/GD09
		Issue Number	01
		Revision Number	0
		Effectivity Date	January 2015
		Page	Page 3 of 11

- .09 Molybdenum ores
- .10 Tungsten ores
- .11 Chromium ores
- .12 Uranium ores
- .13 Magnesium ores
- .14 Precious metal ores
- .15 Other ores
- .16 Silicate rocks
- .17 Mineral sands
- .18 Silica sands
- .19 Limestone and dolomite
- .20 Gypsum
- .21 Phosphate rock
- .22 Asbestos
- .23 Other minerals
- .24 Metallurgical products
- .25 Sampling
- .26 Sieve analysis
- .27 Heavy liquid tests
- .28 Thermal analyses
- .29 Geochemical samples for trace elements

#### **2.04 Corrosion tests**

- .01 Salt spray tests
- .02 Dezincification tests
- .03 Other tests

#### **2.05 Cements, concrete and related products**


- .01 Portland cement
- .02 Blended cement
- .03 Mansory cement
- .04 Pozzolans
- .05 Concrete
- .06 Mortar
- .07 Fibre cement
- .08 Aggregates
- .09 Other materials
- .10 Sampling

#### **2.06 Clays, ceramics and related materials**

- .01 Clays
- .02 Ceramics
- .03 Refractories
- .04 Lime
- .05 Glass
- .06 Sampling

#### **2.07 Oil shale**

- .01 Sampling
- .02 Chemical tests
- .03 Other tests

	Philippine Accreditation Bureau Guidance Document Class of Test- Chemical Testing	Document ID	LA/GD09
		Issue Number	01
		Revision Number	0
		Effectivity Date	January 2015
		Page	Page 4 of 11

## 2.08 Crude petroleum

- .01 Sampling
- .02 Chemical tests

## 2.09 Fuels

- .01 Gaseous fuels
- .02 Liquid fuels
- .03 Coals and coke
- .04 Charcoal
- .05 Other solid fuels
- .06 Octane number rating
- .07 Sampling

## 2.10 Lubricants

- .01 Oils and greases
- .02 Solid lubricants
- .03 Sampling

## 2.11 Bituminous materials

- .01 Bitumens and asphalts
- .02 Tars and tar products
- .03 Bituminous mixtures
- .04 Sampling

## 2.12 Solvents

- .01 Chemical tests
- .02 Physical tests
- .03 Sampling


## 2.13 Miscellaneous petroleum products

- .01 Waxes
- .02 Petrolatums
- .03 White oils
- .04 Antifreeze and de-icing fluids
- .05 Hydraulic fluids
- .06 Additives to fuel and lubricants
- .07 Temporary corrosion preventives
- .08 Electrical insulating oils and compounds
- .09 Petrochemical feedstocks
- .10 Soluble and emulsifying oils
- .11 Sampling

## 2.14 Trace analyses in petroleum products

## 2.15 Paints and related surface coatings

- .01 Chemical tests
- .02 Physical tests
- .03 Outdoor weathering tests
- .04 Marine underwater tests
- .05 Fresh water immersion tests
- .06 Underground tests

	Philippine Accreditation Bureau Guidance Document Class of Test- Chemical Testing	Document ID	LA/GD09
		Issue Number	01
		Revision Number	0
		Effectivity Date	January 2015
		Page	Page 5 of 11

- .07 Humidity tests
- .08 Salt spray tests
- .09 Artificial weathering tests
- .10 Sampling
- .11 Paint driers
- .12 Paint removers

#### **2.16 Resins**

- .01 Sampling
- .02 Chemical tests
- .03 Physical tests

#### **2.17 Ink, dyes and pigments**

- .01 Sampling
- .02 Chemical tests
- .03 Physical tests

#### **2.18 Explosives and associated materials**

- .01 Chemical analyses
- .02 Stability tests
- .03 Physical tests
- .04 Sampling

#### **2.19 Carbon black**


- .01 Sampling
- .02 Chemical tests
- .03 Physical tests

#### **2.20 Rubber**

- .01 Chemical analyses
- .02 Dispersion of carbon black
- .03 Resistance to chemicals
- .04 Swelling in liquids
- .05 Permeability
- .06 Water vapour absorption
- .07 Density and specific gravity
- .08 Flammability tests
- .09 Hardness
- .11 Electrical resistance
- .12 Accelerated weathering tests
- .13 Outdoor weathering tests
- .14 Sampling
- .15 Other tests

#### **2.21 Plastics**

- .01 Chemical analyses
- .02 Resistance to chemicals
- .03 Water vapour transmission
- .04 Permeability
- .05 Density and specific gravity
- .06 Flammability tests
- .07 Electrical resistance

	Philippine Accreditation Bureau Guidance Document Class of Test- Chemical Testing	Document ID	LA/GD09
		Issue Number	01
		Revision Number	0
		Effectivity Date	January 2015
		Page	Page 6 of 11

- .08 Thermal properties
- .09 Flow properties
- .10 Thermal analyses
- .11 Colour fastness
- .12 Accelerated ageing tests
- .13 Outdoor weathering tests
- .14 Sampling
- .15 Other test

#### **2.22 Leather and leather products**

- .01 Chemical analyses
- .02 Physical tests
- .03 Sampling

#### **2.23 Adhesives and sealants**

- .01 Chemical analyses
- .02 Physical tests
- .03 Sampling

#### **2.24 Textiles and related products**


- .01 Identification of fibres
- .02 Quantitative analysis of mixture and bends
- .03 Chemical tests
- .04 Electrical resistance
- .05 Flammability tests
- .06 Resistance to insect attack
- .07 Colour fastness
- .08 Sampling
- .09 Other tests

#### **2.25 Paper, paperboard and pulp**

- .01 Fibre composition
- .02 Chemical analyses
- .03 Water vapour transmission
- .04 Sampling
- .05 Other test

#### **2.26 Foods**

- .01 Cereals products
- .02 Nuts and nut products
- .03 Dairy products
- .04 Meat, poultry and derived products
- .05 Fish, crustaceans and mollusks and derived products
- .06 Sugar and sugar products
- .07 Confectionary
- .08 Fruits, jams and other fruit products
- .09 Vegetables and vegetables products
- .10 Alcoholic beverages
- .11 Soft drinks and cordials
- .12 Fruit juices, drinks and concentrates
- .13 Edible fats and oils
- .14 Margarine

	Philippine Accreditation Bureau Guidance Document Class of Test- Chemical Testing	Document ID	LA/GD09
		Issue Number	01
		Revision Number	0
		Effectivity Date	January 2015
		Page	Page 7 of 11

- .15 Eggs and eggs products
- .16 Pet foods
- .17 Antioxidants in foods
- .18 Colorants in foods
- .19 Other food additives
- .20 Other food products
- .21 Vitamins in foods
- .22 Shelf-life tests
- .23 Sensory evaluation tests
- .24 Sauce, spices and condiments
- .25 Food supplement and / or Dietary supplement
- .26 Novel food products
- .27 Sampling

#### **2.27 Residue s in foods and agricultural materials**

- .01 Elements
- .02 Pesticides
- .03 Antibiotics
- .04 Insect infestation
- .05 Mycotoxins
- .06 Agricultural chemicals
- .07 Polyhalogenated biphenyls
- .08 Chlorinated dioxins and dibenzofurans
- .09 Hormones and steriods
- .10 Sampling
- .11 Other residues

#### **2.28 Drugs and pharmaceuticals**


- .01 Drugs
- .02 Herbal products
- .03 Parenteral Solutions and fluids
- .04 Medicinal and veterinary preparations
- .05 Vitamins
- .06 Antibiotics
- .07 Hormones
- .08 Vaccines and sera
- .09 Blood and blood products
- .10 Enzymes
- .11 Raw materials used in compounding pharmaceuticals
- .12 Sampling
- .13 Biotech derive products

#### **2.29 Cosmetics, perfumes and essentials oils**

- .01 Cosmetics
- .02 Perfumes
- .03 Essentials
- .04 Hygiene products
- .05 Sampling

#### **2.30 Fats, oils and waxes**

- .01 Animal sources
- .02 Vegetable sources

	Philippine Accreditation Bureau Guidance Document Class of Test- Chemical Testing	Document ID	LA/GD09
		Issue Number	01
		Revision Number	0
		Effectivity Date	January 2015
		Page	Page 8 of 11

.03 Sampling

### 2.31 Detergents and related products

- .01 Soaps
- .02 Synthetic detergents
- .03 Wetting and emulsifying agents
- .04 Biodegradability tests
- .05 Fire prevention foams
- .06 Disinfectants
- .07 Sampling

### 2.32 Agricultural products and materials

- .01 Cereal grains and by- products
- .02 Oil seeds and by- products
- .03 Stockfeeds
- .04 Antibiotics
- .05 Vitamins and additives in stockfeeds
- .06 Wood and timber treatment materials
- .07 Insecticide and acaricide formulations
- .08 Herbicide formulations
- .09 Fungicide formulations
- .10 Tobacco and tobacco products
- .11 Fertilizers and liming materials
- .12 Soils
- .13 Plant tissue
- .14 Sampling
- .15 Other agricultural products


### 2.33 Waters

- .01 Water potable and domestic purposes
- .02 Drinking water
- .03 Water for irrigation and stock
- .04 Waters for industrial and steam-raising purposes
- .05 Sewage
- .06 Industrial waste
- .07 Saline waters
- .08 Bore waters
- .09 Water for aquaculture
- .10 Sampling
- .11 Other waters

### 2.34 Gases and aerosols

- .01 Industrial gases
- .02 Gases for medical use and diving gases
- .03 Reference gases and mixtures
- .04 Industrial fumes and emissions
- .05 Atmospheric pollution
- .06 Air in confined spaces
- .07 Fire extinguisher
- .08 Sampling
- .09 Other gases and mixtures



	Philippine Accreditation Bureau Guidance Document Class of Test- Chemical Testing	Document ID	LA/GD09
		Issue Number	01
		Revision Number	0
		Effectivity Date	January 2015
		Page	Page 9 of 11

### 2.35 Biological monitoring

- .01 Blood alcohol
- .02 Elements
- .03 Fluoride
- .04 Pesticide residues
- .05 Agricultural chemical residues
- .06 Drugs and drugs metabolites
- .07 Sampling
- .08 Other substances

### 2.36 Constituents of the environment


- .01 Water other than saline
- .02 Saline waters
- .03 Air
- .04 Soils
- .05 Sediments
- .06 Sludges
- .07 Solid waste
- .08 Leachate procedures
- .09 Atmospheric dust fall
- .10 Biota
- .11 Noise
- .12 Sampling

### 2.37 Workplace environments and hazards

- .01 Asbestos Fiber
- .02 Mineral Dust
- .03 Metal Dust
- .04 Silica Dust (Quartz)
- .05 Nuisance Dust (Respirable Total Dust)
- .06 Metal fumes
- .07 Organic Solvents/vapours
- .08 Inorganic chemical
- .09 Gases in confined spaces
- .10 Toxic Gases
- .11 Sampling
- .12 Other substances

### 2.38 Residues in constituents of the environment

- .01 Elements
- .02 Pesticides
- .03 Polyhalogenated biphenyls
- .04 Halogenated hydrocarbons
- .05 Phenols
- .06 Phthalates
- .07 Hydrocarbons
- .08 Petroleum hydrocarbons
- .09 Minerals oils
- .10 Monocyclic aromatic hydrocarbons
- .11 Polycyclic aromatic hydrocarbons
- .12 Chlorinated dioxins and dibenzofurans

	Philippine Accreditation Bureau Guidance Document Class of Test- Chemical Testing	Document ID	LA/GD09
		Issue Number	01
		Revision Number	0
		Effectivity Date	January 2015
		Page	Page 10 of 11

- .13 Mineral pollutants
- .14 Cyanide
- .15 Explosives
- .16 Nutrients
- .17 Sampling
- .18 Other substances

#### **2.39 Motor vehicles**

- .01 Vehicle emissions
- .02 Fuel consumption tests
- .03 Other tests


#### **2.40 Particle sizing**

#### **2.41 Laboratory reagents**

- .01 Chemical tests
- .02 Physical tests
- .03 Sampling

#### **2.42 Miscellaneous materials and products**

- .01 Chemical tests
- .02 Physical tests
- .03 Sampling
- .04 Other tests

	Philippine Accreditation Bureau Guidance Document Class of Test- Chemical Testing	Document ID	LA/GD09
		Issue Number	01
		Revision Number	0
		Effectivity Date	January 2015
		Page	Page 11 of 11

### ISSUE AND AMENDMENT RECORD

Title	Issue	Date	Amendments
Class of Test Structure - Chemical Testing	01	January 2015	Initial Issue