

## EGAC Scope for Accreditation Schemes:

No	Field	Major discipline		Sub- discipline		Tests/ Properties measured	
		Code	Scheme Title/Type	Code	Sample/ artifact.		
6	Proficiency Testing Provider for testing laboratories	A	Food Chemistry	1	Plant produce	Moisture, Components, Contaminates, Fat, Protein, Ash, Carbohydrate, Cholesterol, Sodium, Potassium, Iron, Magnesium, Calcium, Salt, Calories, Saturated fat, Fats, Pesticide residue, etc.	
				2	Animal produce		
				3	Industrial produce		
		B	Food Microbiology	1	Plant produce	Qualitative/ Quantitative: Salmonella Species, Listeria Species, E. coli, Coagulase Positive Staphylococcus, Coliform, Yeast and Mold, Aerobic Plate Count, Bacillus cereus, Campylobacter, ...etc.	
				2	Animal produce		
				3	Industrial produce		
		C	Environmental Chemistry	1	Liquids: including drinking & non- potable water	Metals, nutrients, minerals, organic & inorganic chemicals, microbiology, contaminants, pesticide residue, .....etc	
				2	Solids		
				3	Air		
		D	Chemical testing		1	Metal alloys	Composition analysis for the alloy types - ferrous, copper, aluminum, tin, lead, magnesium, zinc, nickel, precious metals, phosphorus, cadmium, chromium, manganese, silicon, arsenic
					2	Soils	
					3	Coal and fuels.	

No	Field	Major discipline		Sub- discipline		Tests/ Properties measured
		Code	Scheme Title/Type	Code	Sample/ artifact.	
						selenium, arsenic, ...etc.
				4	Fuels.	Octane rating.
		<b>E</b>	<b>Physical Testing</b>	1	Soils	Density, Particle size, Porosity, Colligative properties, .....etc.
					Granules	
					Concrete	
					Paints	
					Adhesives	
					Alloys	
		<b>F</b>	<b>Mechanical Testing</b>	1	Metals.	Tensile strength, strain rate, yield stress, proof strength, elongation, Brinell hardness, Rockwell hardness, Vickers hardness, Fatigue, Fracture toughness, Impact, Creep, Stress, rupture, Crack growth
				2	Chains.	Proof strength, braking load, extension
				3	Textiles.	Qualitative fiber analysis, breaking load, extension, mass per unit area, threads per unit length.
		<b>G</b>	<b>Electrical Testing</b>	1	Electrical appliances& accessories	General Requirements& electrical Performance
						Fire Test
						Insulation & Wire tests
						Temperature Measurements
						DC Component from AC equipment
						Socket outlets current breaking tests
		<b>H</b>	<b>Biological Testing</b>	1	Drinking water.	Water: E.coli, faecal coliforms, total coliforms, faecal streptococci, plate count
				2	Non- potable water	
				3	Food	Pathogens in Food: Qualitative and quantitative – salmonella, listeria, bacillus cereus, staphylococci
						Non-Pathogens in Food: Plate count, coliforms, E.coli, thermophiles, thermophilic spores
		<b>I</b>	<b>Construction</b>	1	Asphalt.,	Bearing ratio, classification,

No	Field	Major discipline		Sub- discipline		Tests/ Properties measured		
		Code	Scheme Title/Type	Code	Sample/ artifact.			
			<b>Material Testing</b>			compaction and density, strength and consolidation		
				2	Aggregates.	Density, bitumen content, aggregate grading, stability and flow		
				3	Soils & cement.	Sieve analysis, particle shape and size, density, water absorption		
				4	Concrete.	Hardened concrete cylinders - dimensions, maximum sustained load unit, compression strength, type of failure		
				5	Marble.	Density, consistency, non-volatiles by mass, non-volatiles by volume		
		<b>J</b>	<b>Pharmaceuticals</b>	1	Solids.	Identification and enumeration of pharmacopeias.		
				2	Semi- solids.	Chemical analysis.		
				3	Liquids.	Microbiological analysis.		
		<b>Proficiency Testing Provider for calibration laboratories</b>		<b>K</b>	<b>Physical and Dimensional Metrology</b>	1	Length measuring devices	Length, diameter, distance, Laser Wavelength, Line Scales & Distances Measurements
						2	Limit gauges	Thread quantities
3	angle standards					Angle measurements		
4	Load cells Calibers					Index Tables Clinometers		
5	Volumetric equipment					Volume measurements		
6	Torque measuring devices					Torque measurements		
7	Flow measuring devices					Flow measurements		
8	Pressure and vacuum measuring devices					Pressure and vacuum measurements		
9	Hydrometers					Hydrometric measurements		
<b>L</b>	<b>Thermo physical Properties</b>			1	Temperature measuring equipment	Resistance Thermometry		
		Thermocouples						
		Liquid-In-Glass Thermometers						

No	Field	Major discipline		Sub- discipline		Tests/ Properties measured
		Code	Scheme Title/Type	Code	Sample/ artifact.	
					- Thermometers - Thermocouples	Radiation Thermometers Humidity
		M	Electrical Quantities	1	Resistors Dividers Magnetic materials Capacitors Inductors Transformers Voltage standards Attenuators Precision transfer instruments Calibrators	Voltage, Current, Voltage Ratio, AC/DC transfer (voltage and current), Power and Energy Resistance Capacitance Inductance Dissipation Factor, Oscilloscope Functions, Process calibrators Logic State Analysis, High Voltage quantities Modulation (AM, FM, PM), Impedance (reflection coefficient), Power, Attenuation, Adaptors, Antennas, Function Generation, Spectrum Analysis, S-parameters, Noise, Electric/Magnetic Field quantities.
		N	Optics and Radiometry	1	Optical components and systems Radiant flux Irradiance measuring instruments Luminance Spectrophotometry	Optical System properties Lasers Quantities of Optical Radiation Fiber Optics Photometric quantities
		O	Acoustic and Vibration	1	Vibration measuring and calibration equipment	Microphones Sound Level Artificial Mastoids Noise Dosimeters
		P	Mechanical Quantities	1	Pressure,	Pressure
				2	vacuum,	vacuum
				3	Force,	Force, Extensometers, strain gauges
				4	Odometers	distance

No	Field	Major discipline		Sub- discipline		Tests/ Properties measured
		Code	Scheme Title/Type	Code	Sample/ artifact.	
				5	Torque	Torque Wrenches
				6	Scales & balances	Weights
				7	Mass gauges.	Mass
		<b>Q</b>	<b>Time &amp; Frequency</b>	1	Tachometer Optical/ Mechanical	Period Time Frequency
		<b>R</b>	<b>Fluid Quantities</b>	1	Flow	Gas and Liquid Flow Rate
					Standard gauges	Volume of Flowing Gases and Liquids
					Velocity	Velocity of Gases
					standard gauges	Mass, Volume, & Density of Gases/Liquids
					Viscosity meters	Viscosity
		<b>S</b>	<b>Environmental Equipment</b>	1	Particles counters	Enumeration
					Water and Air analyzers	Water & Air contents
	<b>Proficiency Testing Provider for medical laboratories</b>	<b>T</b>	<b>Microbiology Program</b>	1	Body fluids	Bacteriology Hepatitis A,B,C
					Simulated samples in Universal Transport Medium	Mycology HIV Mycobacteriology Virology Intestinal Parasites
					Swabs in Transport Medium	Parasitology Molecular Microbiology Miscellaneous tests
					Freeze dried fluids	
					Dried blood spots	
			<b>U</b>	<b>Chemistry Program</b>	1	Body fluids
					Dried blood spots	Blood Gases, Hemoglobin A1c Therapeutic drugs, Drugs of Abuse Routine Enzymes, Cardiac Markers, Lipids, Endocrinology, Immunology
		<b>V</b>	<b>Hematology</b>	1	Human Blood	Routine Hematology

No	Field	Major discipline		Sub- discipline		Tests/ Properties measured
		Code	Scheme Title/Type	Code	Sample/ artifact.	
			<b>Program</b>			Flow Cytometry- Hematological Disorders Flow Cytometry-HIV Flow Cytometry-Stem Cells Reticulocytes Body fluids Routine Coagulation D-dimer Assay Factor Assay Heparin Assay Thrombophilia Red Cell Disorders- Hemoglobin Fraction Quantitation HBs Screen Hematology Morphology Hematology Bone Marrow
		<b>W</b>	<b>Pathology Program</b>	1	Human Tissues	Cytology
					Body fluids	Routine Stains, Special Stains, ImmunoHistoChemistry Predictive Genetic tests
		<b>X</b>	<b>Transfusion Medicine Program</b>	1	Human Blood	Tests for blood transmitted diseases Hematopoietic Progenitor Cell Services Immunoematology(( ABO group&Rh type), Antibody detection (transfusion),Antibody detection(Non transfusion), antibody identification,Compatibility testing)
		<b>Y</b>	<b>Serology program</b>	1	Body fluids	Serology for infectious diseases Miscellaneous tests
		<b>Z</b>	<b>Cytogenetics program</b>	1	Blood/ Urine	Metabolite analysis