
 OFFICE LUXEMBOURGEOIS D'ACCREDITATION ET DE SURVEILLANCE	<b>A005 – Accreditation domains covered by OLAS</b>			
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# A005

## Accreditation domains covered by OLAS

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## Testing laboratories

### Environment and Agri-food

LAB1	<b>General domain : Food analytical chemistry / biochemistry</b>	
	Technical domains :	
	1.1	Mycotoxins
	1.2	Pesticides
	1.3	Other agricultural and industrial contaminants (colorants, preservatives)
	1.4	Additives
	1.5	Oenology
	1.6	Vitamins
	1.7	Inhibitory substances
	1.8	Macroconstituent
	1.9	Inorganic contaminants characterization
	1.10	Physicochemical characterisation
LAB2	<b>General domain : Water microbiology</b>	
	Technical domains :	
	2.1	Bacteriology
	<i>Categories of matrices:</i>	
	- <i>Fresh waters: waters intended for human consumption, sanitary waters, natural or treated bathing waters, swimming pool waters, surface waters (rivers and lakes), groundwater, thermal waters, bottled or packaged water, dialysis water, osmosis water and care facilities , rainwater</i>	
	- <i>Wastewaters: domestic, industrial or artisanal waste water</i>	
	- <i>Waters of cooling towers</i>	
	- <i>Salt waters</i>	
LAB19	<b>General domain : Food microbiology</b>	
	Technical domains :	
	19.1	Bacteriology
	19.2	Yeasts and molds
LAB3	<b>General domain : Food biology</b>	
	Technical domains :	
	3.1	Molecular biology
	3.2	Cellular enumeration
LAB5	<b>General domain : Water chemistry</b>	
	Technical domains :	
	5.1	Physical-chemical characterization
	5.2	Inorganic contaminants characterization
	5.3	Organic contaminants characterization
	5.4	Radio-toxicology
	<i>Categories of matrices:</i>	
	- <i>Fresh waters: waters intended for human consumption, sanitary waters, natural or treated bathing waters, swimming pool waters, surface waters (rivers and lakes), groundwater, thermal waters, bottled or packaged water, dialysis water, osmosis water and care facilities , rainwater</i>	
	- <i>Wastewaters: domestic, industrial or artisanal waste water</i>	

	- <i>Waters of cooling towers</i>
	- <i>Salt waters</i>
	- <i>Process water (eluate, leachate, sparging solution, ...)</i>
<b>LAB6</b>	<b>General domain : Soil chemistry</b>
	Technical domains :
6.1	Physical-chemical characterization
6.2	Inorganic contaminants characterization
6.3	Organic contaminants characterization
	<i>Categories of matrices:</i>
	- <i>Land</i>
	- <i>Sludge</i>
	- <i>Biosolides</i>
	- <i>Waste</i>
	- <i>Solid filters</i>
	- <i>Organic products</i>
	- <i>Sediments</i>
	- <i>Soil</i>
<b>LAB7</b>	<b>General domain : Air quality</b>
	Technical domains :
7.1	Organic contaminants characterization
7.2	Mineral and metal contaminants characterization
<b>LAB8</b>	<b>General domain : Solid chemistry</b>
	Technical domains :
8.1	Physical-chemical characterization
8.2	Organic contaminants characterization
8.4	Inorganic contaminants characterization
	<i>Categories of matrices:</i>
	- <i>Wood</i>
	- <i>Fuel</i>
<b>LAB9</b>	<b>General domain : Liquid chemistry</b>
	Technical domains :
9.2	Mineral contaminants characterization
<b>LAB12</b>	<b>General domain : Radioprotection</b>
	Technical domains :
12.1	Radiophysics / Radiochemistry

## Industrial products / Materials

LAB8	<b>General domain : Solid chemistry</b>	
	Technical domains :	
	8.1	Physical-chemistry
	8.3	Characterization of raw materials and industrial products
LAB9	<b>General domain : Liquid chemistry</b>	
	Technical domains :	
	9.1	Physical-chemistry
LAB10	<b>General domain : Gas chemistry</b>	
	Technical domains :	
	10.1	Physical-chemistry
LAB13	<b>General domain : Properties of materials</b>	
	Technical domains :	
	13.1	Mechanical testing
	13.2	Chemical testing
	13.3	Environmental testing
	13.4	Non-destructive testing
	13.5	Surface condition testing
	13.6	Thermal tests
	13.6.1	Heating
	13.6.2	Resistance to heat and fire
	13.7	Dimension, durability, noise, resistance, grip of tires
	13.8	Physical testing
LAB14	<b>General domain : Characterisation of materials</b>	
	Technical domains :	
	14.1	Asbestos
LAB15	<b>General domain : Climatic and thermostatic chambers</b>	
	Technical domains :	
	15.1	Characterisation and verification of climatic and thermostatic chambers

## Product safety

LAB13	<b>General domain : Properties of materials</b>	
	Technical domains :	
	13.1	Mechanical testing
	13.6	Thermal tests
	13.6.1	Heating
	13.6.2	Resistance to heat and fire
LAB17	<b>General domain : Electrical safety</b>	
	Technical domains :	
	17.1	Electrical testing

## Biology / Health / Forensic

<b>LAB20</b>	<b>General domain : Veterinary microbiology</b>
	Technical domains :
	20.1 Bacteriology
	20.3 Parasitology
	20.4 Virology
	20.5 Non-conventional transmissible agents
	20.6 Infectious molecular biology
<b>LAB21</b>	<b>General domain : Veterinary biochemistry</b>
	Technical domains :
	21.1 General and specialized biochemistry
<b>LAB22</b>	<b>General domain : Veterinary haematology</b>
	Technical domains :
	22.1 Hemocytology
	22.2 Coagulation
	22.3 Immunohematology
<b>LAB4</b>	<b>General domain : Veterinary serology</b>
	Technical domains :
	4.1 Infectious serology
<b>LAB11</b>	<b>General domain : Blood chemistry</b>
	Technical domains :
	11.1 Inorganic contaminants characterization
<b>LAB12</b>	<b>General domain : Radioprotection</b>
	Technical domains :
	12.2 Radiotoxicology
<b>LAB16</b>	<b>General domain : Forensic biology</b>
	Technical domains :
	16.1 Molecular genetics
	16.2 Biology - Biochemistry
<b>LAB18</b>	<b>General domain : Biologic analyses</b>
	Technical domains :
	18.1 Molecular biology
	18.2 Cellular enumeration
	18.3 Immunoenzymatic assays

## Mechanical / Automotive / Boats

<b>LAB23</b>	<b>General domain : Homologation of vehicles</b>
	Technical domains :
	<u>23.1</u> <u>Engine/toxic emission</u>

## Calibration laboratories

### Metrology

<b>CAL1</b>	<b>General domain : Electricity</b>	
	Technical domains :	
	1.1	Voltage (V)
	1.1.1	Voltage measurers – Direct current (DCV)
	1.1.2	Voltage measurers – Alternative current (ACV)
	1.1.3	Single phase alternative current energy counters
	1.1.4	Three-phase alternative current energy counters
	1.1.5	Voltage generators – Direct current (DCV)
	1.1.6	Voltage generators – Alternative current (ACV)
	1.1.7	Voltage measuring transformers
	1.2	Amperage (A)
	1.2.1	Current measurers – Direct current (DCI)
	1.2.2	Current measurers – Alternative current (ACI)
	1.2.3	Current measuring transformers (A)
	1.2.4	Current generators (A) – Direct current (DCI)
	1.2.5	Current generators (A) – Alternative current (ACI)
	1.3	Resistance ( $\Omega$ )
	1.3.1	Ohmmeters resistance measurers ( $\Omega$ )
	1.3.2	Resistance generators ( $\Omega$ )
	1.3.3	Standard resistor ( $\Omega$ )
	1.4	Power (W)
	1.5	Energy (Ws)
<b>CAL2</b>	<b>General domain : Time / frequency</b>	
	Technical domains :	
	2.1	Frequency Counters
	2.1.1	Frequency meters / counters – square wave
	2.1.2	Frequency meters / counters – sine wave
	2.1.3	Frequency generators – square wave
	2.1.4	Frequency generators – sine wave
	2.1.5	Multimeters / Calibrators – square wave
	2.1.6	Multimeters / Calibrators – sine wave
<b>CAL3</b>	<b>General domain: Mass</b>	
	Technical domains :	
	3.1	Mass
<b>CAL4</b>	<b>General domain: Dimensional</b>	
	Technical domains :	
	4.1	Dimensional
<b>CAL5</b>	<b>General domain: Flow rate</b>	
	Technical domains :	
	5.1	Volume conversion devices
	5.2	Gas flow rate

## Biomedical laboratories

### Medical Biology

MED1	<b>General domain : Clinical biochemistry</b>	
	Technical domains :	
	1.1	General and specialized biochemistry
	1.2	Pharmacology – Toxicology and radio-toxicology
	1.3	Calculated parameters
MED2	<b>General domain : Haematology</b>	
	Technical domains :	
	2.1	Hemocytology
	2.2	Coagulation
	2.3	Immunohematology
MED3	<b>General domain : Immunology</b>	
	Technical domains :	
	3.1	Allergy
	3.2	Autoimmune diagnostics
	3.3	Specialized cellular immunology and histocompatibility
MED4	<b>General domain : Medical microbiology</b>	
	Technical domains :	
	4.1	Non-conventional transmissible agents
	4.2	Medical bacteriology
	4.3	Medical parasitology
	4.4	Medical mycology
	4.5	Medical virology
	4.6	Infectious molecular biology
	4.7	Calculated parameters
MED5	<b>General domain : Serology</b>	
	Technical domains :	
	5.1	Infectious serology
MED6	<b>General domain : Genetics</b>	
	Technical domains :	
	6.1	Molecular genetics
	6.2	Cytogenetics
MED7	<b>General domain : Reproductive biology</b>	
	Technical domains :	
	7.1	Spermiology
	7.2	Medically assisted procreation
MED8	<b>General domain : Anatomy-pathology</b>	
	Technical domains :	
	8.1	Cytopathology

## Inspection bodies

### Building / construction

INS1	<b>General domain : Asbestos</b>	
	Technical domains :	
	1.1	Control of the concentration of asbestos fibres
	1.2	Control of asbestos removal
INS 2	<b>General domain : Building safety</b>	
	Technical domains :	
	2.1	Building safety
	2.1.1	Evacuation routes
	2.1.2	Safety signs
	2.1.3	Various issues related to security
	2.1.4	Ventilation and air conditioning systems
	2.1.5	Heating systems
	2.1.6	Gas facilities
	2.2	Fire safety
	2.2.1	Fire barriers
	2.2.2	Fire detection and fire alarm
	2.2.3	Fire sprinkler system
	2.2.4	Gas Fire extinguishing system
	2.2.5	Manual fire fighting systems
	2.2.6	Smoke extraction system
	2.3	Facilities for personal safety
	2.3.1	CO detection and parking ventilation
	2.4	Lighting control on workplaces
	2.4.1	Security lighting
	2.4.2	Lighting on workplaces
INS 3	<b>General domain : Atmosphere of workplaces</b>	
	Technical domains :	
	3.1	Control of sanitations
	3.2	Control of the air quality on workplaces
	3.3	Control and analysis of noise and vibration intensities on workplaces
	3.4	Control of radiations
	3.4.1	Non-ionising radiations
INS 4	<b>General domain : Pressure equipment</b>	
	Technical domains :	
	4.1	Control of cold production facilities
	4.2	Control of facilities and pressure equipment
	4.2.1	Control of pressure vessels containing compressed air or liquefied gases, compressed or dissolved
	4.2.2	Control of facilities and steam machines
	4.2.3	Control of mobile pressure vessels intended to store liquefied gases compressed or dissolved
	4.2.4	Control of metal pipes for the transport of fluids within a company



INS 5	<b>General domain : Constructions stability and safety of work sites</b>		
	Technical domains :		
	5.1	Control of constructions stability	
	5.2	Control and analysis of safety measures for construction and demolition work sites	
	5.3	Control of scaffolding and ladders	
INS 6	<b>General domain : Electrical installations</b>		
	Technical domains :		
	6.1	Control of electrical installations	
	6.1.1	Transformer medium voltage	
	6.1.2	Auxiliary electrical generator	
	6.1.3	Low voltage electrical installations	
	6.1.4	Lightning protection installations	
	6.1.5	Electrical installations in potentially explosive atmospheres	
INS 7	<b>General domain : Machines / protective equipment</b>		
	Technical domains :		
	7.1	Control of lifting equipment	
	7.1.1	Lifting equipment	
	7.1.2	Lifts and elevator	
	7.1.3	Escalators	
	7.2	Safety control of machines and work equipment	
	7.3	Control of protective equipment	
INS 8	<b>General domain : Dangerous fluids</b>		
	Technical domains :		
	8.1	Control of dangerous fluids	
INS13	<b>General domain: Television inspection of sewers</b>		
	Technical domains :		
	INS13.1	Television inspection of wastewater mains	
INS14	<b>General domain: Energy</b>		
	Technical domains :		
	INS14.1	Certification of the energy performance of buildings (EPB)	

## Metrology

INS 9	<b>General domain : Legal metrology</b>		
	Technical domains :		
	9.1	Non-automatic weighing instruments	
	9.2	Road measuring systems	

## Biology / Health / Forensic

INS 11	<b>General domain: Veterinary</b>		
	Technical domains :		
	11.1	Animal health	
	11.2	Public health	
	11.3	Border inspection post	

## Mechanical / Automotive / Boats

INS 10	<b>General domain: Transports – transportation means</b>		
	Technical domains :		
	10.1	Road vehicles control	
INS12	<b>General domain : Homologation of vehicles</b>		
	Technical domains :		
	12.1	Engine/toxic emission	
		12.1.1	Determination of engine power
	12.2	Sound emission	
		12.2.1	Audible warning devices
	12.3	Braking- and steering system	
		12.3.1	Testing of steering systems
		12.3.2	Testing of braking systems
	12.4	Wheels/Tyres	
		12.4.1	Wheel cover
	12.5	Lighting devices	
	12.6	Strength testing/Coupling devices	
	12.7	Electric/electronic systems	
		12.7.1	Electromagnetic compatibility
	12.8	Sight	
		12.8.1	Indirect field of view
	12.9	Passive safety	
		12.9.1	Interior fittings, identification of controls, tell-tales and indicators
	12.10	Exterior safety	
		12.10.1	External projections
	12.11	Measuring and control devices	
		12.11.1	Speedometer

## Product certification bodies

### Mechanical / Automotive / Boats

PRO1	<b>General domain : Industrial products certification</b>		
	Technical domains :		
	1.2	Homologation of vehicles	
	1.8	Recreational craft	
		1.8.1	Recreational craft / Personal watercraft
		1.8.2	Propulsion engines / Exhaust emissions
		1.8.3	Propulsion engines / Noise emissions
		1.8.4	Components
	1.9	Noise emission in the environment by equipment for use outdoors	
	1.10	Pyrotechnic articles	
		1.10.1	Airbags
		1.10.2	Seat belt pretensioners

### Industrial products / Materials



PRO1	<b>General domain : Industrial products certification</b>		
	Technical domains :		
	1.3	Construction products	
		1.3.1	Aggregates
		1.3.2	Bituminous mixtures
		1.3.3	Superficial coatings
		1.3.4	Bituminous binders
		1.3.5	Cold cast hydrocarbon asphalt

### Building / construction

PRO1	<b>General domain : Industrial products certification</b>		
	Technical domains :		
	1.1	Lifts	
	1.4	Pressure equipment	
		1.4.1	Pressure equipment
		1.4.2	Simple pressure vessels

### Product safety

PRO1	<b>General domain : Industrial products certification</b>		
	Technical domains :		
	1.5	Individual protective equipment (IPE)	
		1.5.1	IPE dedicated to protect against mechanical shocks
		1.5.2	IPE dedicated to protect against compression (static) to a part of the body
		1.5.3	IPE dedicated to protect against physical injury (abrasion, punctures, cuts, bites)
		1.5.4	IPE dedicated to protect against heat and/or fire

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	1.7	Equipment and protective systems intended for use in potentially explosive atmospheres (ATEX)
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## Management system certification bodies

### QSE/MD Management systems

SMQ1	General domain : Management system certification according to ISO 9001		
	Cluster	Technical domains :	Critical code(s)
	1.1	Food	
		1 Agriculture, fishing	3
		3 Food products, beverages and tobacco	
		30 Hotels and restaurants	
	1.2	Mechanical	
		17 Basic metals and fabricated metal products	22 or 20
		18 Machinery and equipment	
		19 Electrical and optical equipment	
		20 Shipbuilding	
		22 Other transport equipment	
	1.3	Paper	
		7 Pulp, Paper and paper products	9
		8 Publishing companies	
		9 Printing companies	
	1.4	Minerals	
		2 Mining and Quarrying	2 or 15
		15 Non-metallic mineral products	
		16 Concrete, cement, lime, plaster, etc.	
	1.5	Construction	
		28 Construction	28
		34 Engineering services	
	1.6	Goods production	
		4 Textiles and textile products	5 or 14
		5 Leather and Leather products	
		6 Wood and wood products	
		14 Rubber and plastic products	
		23 Manufacturing not elsewhere classified	
	1.7	Chemicals	
		7 Pulp, Paper and paper products	12
		10 Manuf. of coke and refined petroleum products	
		12 Chemicals, chemical products and fibbers	
	1.8	Supply	
		25 Electricity Supply	26
		26 Gas Supply	
		27 Water Supply	
	1.9	Transport & Waste management	
		24 Recycling	24
		31 Transport, storage and communication	
		39 Other social services	

	1.10	Services		
		29	Wholesale and retail trade: Repair of motor vehicles, motorcycles and personal and household goods	37 or 33
		32	Financial intermediation; real estate; renting	
		33	Information Technology	
		35	Other Services	
		36	Public administration	
		37	Education	
	1.11	Nuclear		
		11	Nuclear fuel	11
	1.12	Pharmaceutical		
		13	Pharmaceuticals	13
	1.13	Aerospace		
		21	Aerospace	21
	1.14	Health		
		38	Health and social work	38



<b>SMQ4</b>	<b>General domain : Certification of environmental management system according to the standard ISO 14001</b>			
	Cluster :	Technical domains :		Critical code(s)
	4.1	Agriculture, forestry and fishing		
		1	Agriculture, fishing	1
	4.2	Food		
		3	Food products, beverages and tobacco	3
		30	Hotels and restaurants	
	4.3	Mechanical		
		17	Basic metals and fabricated metal products	20 or 21
		18	Machinery and equipment	
		19	Electrical and optical equipment	
		20	Shipbuilding	
		21	Aerospace	
		22	Other transport equipment	
	4.4	Paper		
		7	Pulp, Paper and paper products	9
		8	Publishing companies	
		9	Printing companies	
	4.5	Construction		
		28	Construction	28
		34	Engineering services	
	4.6	Goods production		
		4	Textiles and textile products	4 and 5
		5	Leather and Leather products	
		6	Wood and wood products	
		23	Manufacturing not elsewhere classified	
	4.7	Chemicals		
		7	Pulp, Paper and paper products	7 and 10 and 12 and
		10	Manuf. of coke and refined petroleum products	

		12	Chemicals, chemical products and fibbers	13
		13	Pharmaceuticals	
		14	Rubber and plastic products	
		15	Non-metallic mineral products	
		16	Concrete, cement, lime, plaster, etc.	
		17	Basic metals and fabricated metal products	
	4.8	Mining and quarrying		
		2	Mining and Quarrying	2
	4.9	Supply		
		25	Electricity Supply	25 or 26
		26	Gas Supply	
		27	Water Supply	
	4.10	Transport & Waste management		
		24	Recycling	24 and 39 (limited to NACE 37, 38.1, 38.2, 39)
		31	Transport, storage and communication	
		39	Other social services	
	4.11	Services		
		29	Wholesale and retail trade: Repair of motor vehicles, motorcycles and personal and household goods	29 or 35 or 36
		32	Financial intermediation; real estate; renting	
		33	Information Technology	
		35	Other Services	
		36	Public administration	
		37	Education	
	4.12	Nuclear		
		11	Nuclear fuel	11
	4.13	Health		
		38	Health and social work	38

<b>SMQ5</b>	<b>General domain : Certification of occupational health and safety management system according to the standard ISO 45001</b>			
	Cluster	Technical domains :		Critical code(s)
	5.1	Agriculture, forestry and fishing		
		1	Agriculture, fishing	1
	5.2	Mechanical		
		17	Basic metals and fabricated metal products	20 and 21
		18	Machinery and equipment	
		19	Electrical and optical equipment	
		20	Shipbuilding	
		21	Aerospace	
		22	Other transport equipment	
	5.3	Paper		
		7	Pulp, Paper and paper products	9
		8	Publishing companies	
		9	Printing companies	
	5.4	Construction		

	28	Construction	28
	34	Engineering services	
5.5	Goods production		
	4	Textiles and textile products	4 (with tannage) and 5 or 6
	5	Leather and Leather products	
	6	Wood and wood products	
	23	Manufacturing not elsewhere classified	
5.6	Chemicals		
	7	Pulp, Paper and paper products	7 and 10 and 12 and 13 and 16 or 17
	10	Manuf. of coke and refined petroleum products	
	12	Chemicals, chemical products and fibbers	
	13	Pharmaceuticals	
	14	Rubber and plastic products	
	15	Non-metallic mineral products	
	16	Concrete, cement, lime, plaster, etc. Concrete, cement, lime, plaster, etc. Concrete, cement, lime, plaster, etc.	
	17	Basic metals and fabricated metal products	
5.7	Mining and quarrying		
	2	Mining and Quarrying	2
5.8	Supply		
	25	Electricity Supply	25 or 26
	26	Gas Supply	
	27	Water Supply	
5.9	Transport & Waste management		
	24	Recycling	31 (limited to dangerous goods) and 24 or 39 (limited to NACE 37, 38.1, 38.2, 39)
	31	Transport, storage and communication	
	39	Other social services	
5.10	Services		
	29	Wholesale and retail trade: Repair of motor vehicles, motorcycles and personal and household goods	29 or 35 or 36
	32	Financial intermediation; real estate; renting	
	33	Information Technology	
	35	Other Services	
	36	Public administration	
	37	Education	
5.11	Nuclear		
	11	Nuclear fuel	11
5.12	Health		
	38	Health and social work	38
5.13	Food		
	3	Food products, beverages and tobacco	3
	30	Hotels and restaurants	



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SMQ7	<b>General domain : Evaluation of quality management systems within the regulatory framework for CE marking</b>		
	Technical domains :		
	7.1	Noise emission in the environment by equipment for use outdoors	
	7.2	Recreational craft	
	7.3	Pyrotechnic articles	

### ISMS/ PSDC Management systems

SMQ3	<b>General domain : Certification of information security management systems according to the standard ISO 27001</b>		
	Technical domains :		
	3.1	Certification of information security management systems	
SMQ6	<b>General domain: Certification of service providers for digitization and electronic archiving according to standards ISO 27001, ISO 27002 and technical rule</b>		
	Technical domain:		
	6.1	Digitization or e-archiving services	
		6.1.1	Digitisation
		6.1.2	e-archiving