



Specific Accreditation Guidance

Scope of accreditation - service descriptors for infrastructure and asset integrity

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This document lists the descriptors for services currently able to be accredited under the activity of *Infrastructure and Asset Integrity*.

Scopes of accreditation will reference ISO/IEC 17025, identify Infrastructure and Asset Integrity as the activity, the applicable services, the products tested, the determinations, the techniques used, the procedures adopted and any applicable range/limitation.

For non-destructive testing (NDT), the scopes of accreditation will only reference ISO/IEC 17025, identify Infrastructure and Asset Integrity as the activity the applicable services, the products tested, the determinations and the techniques used.

The listing of services will be updated as new ones are accredited.

Services	
Acoustic emission monitoring of metallic and composite materials	
Establishment of annex facilities	
Evaluation of air control equipment	
Evaluation of building air distribution, balancing and pressurisation	
Evaluation of environmental durability of assets and equipment	
Evaluation of geometric properties of structures and equipment	
Evaluation of geotechnical and civil construction material	Aggregate abrasion
	Aggregate binder adhesion
	Aggregate chemical tests
	Aggregate contaminants
	Aggregate petrographic examination
	Aggregate polishing
	Aggregate properties
	Aggregate reactivity
	Aggregate reflectance
	Aggregate soundness
	Aggregate stabilisation
	Aggregate strength
	Asphalt adhesion and stripping
	Asphalt extraction and grading

Services	
Evaluation of geotechnical and civil construction material	Asphalt field density
	Asphalt filler
	Asphalt mechanical properties
	Asphalt mix design
	Asphalt performance
	Asphalt specimen manufacture
	Asphalt volumetric properties
	Concrete petrographic examination
	Concrete, grout and mortar chemical tests
	Concrete, grout and mortar consistence in-situ
	Concrete, grout and mortar deformation
	Concrete, grout and mortar performance
	Concrete grout and mortar permeability
	Concrete, grout and mortar properties
	Concrete, grout and mortar properties chemical tests
	Concrete, grout and mortar properties permeability
	Concrete, grout and mortar shrinkage
	Concrete, grout and mortar specimen manufacture and curing
	Masonry, concrete and clay unit properties
	Pavement shape
	Road pavement profile
	Road pavement structural performance
	Road pavement surface characteristics
	Rock hardness
	Rock petrography
	Rock properties
	Rock strength and deformation
	Soil chemical properties
	Soil classification

Services	
	Soil compaction characteristics
Evaluation of geotechnical and civil construction material	Soil consolidation
	Soil dispersion
	Soil electrical properties
	Soil engineering properties
	Soil field density
	Soil fine particles
	Soil in-situ penetration
	Soil in-situ strength
	Soil laboratory bearing properties
	Soil modulus and deformation
	Soil natural contaminants
	Soil permeability
	Soil pre-treatment
	Soil reactivity
	Soil sample preparation
	Soil shear strength
	Soil stabilisation
	Soil thermal properties
	Soil triaxial strength
Evaluation of high voltage/power equipment and components	Energy efficiency classification
	Performance
Evaluation of load generating lifting appliances	
Evaluation of load handling, rigging and tensioning systems	
Evaluation of mechanical performance of pedestrian and impact attenuation surfaces	
Evaluation of mechanical performance of high pressure oil and gas pipelines	
Evaluation of mechanical performance of low pressure oil and gas pipelines	
Evaluation of mechanical performance of pressure equipment	
Evaluation of mechanical performance of pumps and pump sets	
Evaluation of mechanical performance of water and sewer pipelines	

Services	
Leak evaluation of welds	
Measurement of sound levels in workplaces and the environment	
Non-destructive testing (NDT)	Acoustic emission testing
	Dimensional testing
	Electromagnetic testing
	Electromagnetic testing - Specialised - ACFM
	Electromagnetic testing - Specialised - Eddy current array
	Electromagnetic testing - Specialised - Magnetic flux leakage (MFL)
	Electromagnetic testing - Specialised - Rotational eddy current
	Laser profilometry
	Magnetic particle testing
	Microwave interferometry
	Penetrant testing
	Radiographic testing
	Radiographic testing - Interpretation
	Radiographic testing - Specialised - Computed radiography
	Radiographic testing - Specialised - Computed tomography
	Radiographic testing - Specialised - Digital radiography
	Thermographic testing
	Ultrasonic testing
	Ultrasonic testing - Pulse velocity
	Ultrasonic testing - Specialised - Guided wave (long range)
	Ultrasonic testing - Specialised - Internal rotary (IRIS)
	Ultrasonic testing - Specialised - Phased array (PAUT)
	Ultrasonic testing - Specialised - Time of flight diffraction (ToFD)
	Visual testing - During service life
	Visual testing - Prior to initial service

Services	
Sample collection	
Thermographic analysis of infrastructure and equipment	
Vibration analysis	Equipment condition monitoring
	Machine balance quality
	Vibration levels in workplaces and the environment
	Vibrational behaviour of structures

Amendment Table

The table below provides a summary of changes made to the document with this issue.

Amendment
<p><u>Service descriptors added:</u></p> <p><i>Evaluation of geotechnical and civil construction material - Rock properties</i></p> <p><i>Evaluation of geotechnical and civil construction material - Soil engineering properties</i></p>