



SCOPE OF ACCREDITATION TO ISO/IEC 17043:2023

CENTRO DE CALIDAD E INNOVACIÓN S.A.S
Carrera 100 No. 5 – 169, Tower B, 6th Floor, Unicentro Shopping Mall
Cali, Colombia
Geovana Cristina Calero Mejia Ing Phone: +573104176048

PROFICIENCY TESTING PROVIDER

Valid To: November 30, 2028

Certificate Number: 7376.01

In recognition of the successful completion of the A2LA evaluation process, this Proficiency Testing Provider has been found to meet the ISO/IEC 17043:2023, “Conformity assessment - General Requirements for the competence of proficiency testing providers”. Accreditation is granted to this organization to provide proficiency testing on the following schemes:

PT Scheme	Measurand(s) or Characteristic(s) being Tested, Identified, or Measured	PT Item: Material/Matrix/Type	Techniques for Determination of Assigned Value
Mechanical	Pressure, Vacuum	Analog and Digital Pressure Gauges, Analog and Digital Vacuum Gauges, Sphygmomanometer, Barometers, Pressure Transmitters or Transducers.	Reference Values
	Mass	Non-Automatic Weighing Instruments (weighing scale), Weights (of class E2, F1, F2, M1, M2, M3), Vertical Force Brake Testers (Suspension Analyzer)	Reference Values
	Force, Torque	Brake testers (horizontal forces), Torque meters	Reference Values
Thermodynamics	Temperature	Analog and Digital Thermometers, Glass Liquid Thermometers, Radiation Thermometer, Resistive Temperature Sensors (RTD'S), Thermocouples, Ovens, Liquid Baths, Environmental Conditions Thermometer, Thermohygrometers (environmental conditions meter in temperature), Incubators, Climatic Chambers	Reference Values

PT Scheme	Measurand(s) or Characteristic(s) being Tested, Identified, or Measured	PT Item: Material/Matrix/Type	Techniques for Determination of Assigned Value
Thermodynamics (continued)	Humidity	Hygrometers, Thermohygrometers (environmental conditions meter in humidity), Incubators, Climatic Chambers	Reference Values
Fluid	Mass/Volume Flow	Diaphragm gas meter, Ultrasonic gas meter, Rotary gas meter, Turbine gas meter, Coriolis mass flow meter, Magnetic mass flow meter, Rotameters, Flow meters	Reference Values
	Volume	Piston operated instruments up to 5 Liters, Plastic and Glass Volumetric Instruments up to 5 Liters, Volumetric Containers, Tank Truck, Vertical and Horizontal Cylindrical Tanks, Water meters (DN15, DN20, DN25, DN50)	Reference Values
Dimensional	Length	Portable gauges and hand tools (vernier calipers; measuring tapes and flexometer; outdoor, indoor or depth micrometers; cover comparator; palpators; depth gauge; ruler), artifacts, standards and parts (size blocks and standard blocks; height meter; ultrasound thickness meter; coating thickness meter), shape - step aligner, Distance - Taximeter Tester	Reference Values
	Angle, Particle Size, Rugosity	Goniometers (inclination meters – Inclinometers), REGLOSCOPE (Light beam tilt meters), Artifacts, standards and parts – SIEVE, Roughness meter	Reference Values
Chemical	Substance Concentration / Quantity Fraction, Hydrogen Potential -PH, Conductivity	Alcoholmeter alcoholsensors Gas Detectors (Methane - CH ₄ , Carbon Monoxide – CO, Propane - C ₃ H ₈ , Hydrogen Sulfide - H ₂ S, Oxygen - O ₂ , Carbon Dioxide - CO ₂), Gas Analyzers for vehicular emissions (Hydrocarbons - HC	Reference Values

PT Scheme	Measurand(s) or Characteristic(s) being Tested, Identified, or Measured	PT Item: Material/Matrix/Type	Techniques for Determination of Assigned Value
Chemical (continued)	Substance Concentration / Quantity Fraction, Hydrogen Potential -PH, Conductivity (continued)	(C3H8), Carbon monoxide - CO, Carbon dioxide - CO2, Oxygen - O2), pH Meters, Conductivity meters	Reference Values
Electrical	Voltage in C.C. current in C.C., resistance Ω , voltage in C.A., current in C.A.; capacitance; electric power, Electrical Current	Digital Multimeters (4 ½ to 6 ½ Digits), voltage transformer IEC inductive type, Electrical current transformer inductive type for measurement (classes 0,2; 0,2S; 0,5; 0,5S; 1,0; 3,0 and 5,0), Amperimetric Clamps, Voltammeter Clamps, Amperimeters, - A.C. Digital wattmeters up to 5 1/2 digits, voltage and electrical current sources.	Reference Values
	Electrical Temperature Simulation	Temperature Simulators for RTD Pt 100 Sensors, Temperature simulators for thermocouple (type sensors J, K, T, S, N, E)	Reference Values
	Electrical Energy	Active electric energy meters, single-phase and polyphase (Classes: 0,2 S; 0,5 S; 0,5; 1 and 2, electromechanical and static), Reactive energy meters (Classes: 0.5 S; 1 S; 1; 2 and 3, electromechanical and static) – includes: Calibration by energy comparison method; calibration by pulse comparison method; verification of constant test by revolutions or pulse counting method; verification of constant test by energy metering; start-up test by revolutions or pulse method; operation without load test on static meters by pulse counting method, EPM Electric Power Meter Test Equipment, Patterns of electrical energy	Reference Values
Optical	Photometry, Opacity	Luxometer, Regloscope-headlight beam setters, Opacimeter	Reference Values

PT Scheme	Measurand(s) or Characteristic(s) being Tested, Identified, or Measured	PT Item: Material/Matrix/Type	Techniques for Determination of Assigned Value
Time and Frequency	Time, Frequency	Chronometer, Optical Tachometer	Reference Values





Accredited Proficiency Testing Provider

A2LA has accredited

CENTRO DE CALIDAD E INNOVACIÓN S.A.S

Cali, Colombia

This accreditation covers the specific proficiency testing schemes listed on the agreed upon Scope of Accreditation.

This provider is accredited in accordance with the recognized International Standard ISO/IEC 17043: 2023 Conformity assessment - General requirements for proficiency testing. This accreditation demonstrates technical competence for a defined scope and the operation of a quality management system.



Presented this 3rd day of December 2024.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 7376.01
Valid to November 30, 2028