



SCOPE OF ACCREDITATION TO ILAC G13: 2007

HN PROFICIENCY TESTING INC.  
 10219 Coral Reef Way  
 Indianapolis, IN 46256  
 Henrik Nielsen Phone: 317 713 2988  
 Web: <http://www.hn-proficiency.com/>

PROFICIENCY TESTING PROVIDER

Valid To: August 31, 2014

Certificate Number: 1966.01

This Proficiency Testing Provider has been found to meet the requirements of ILAC Guide 13: “Guidelines for the Requirements for the Competence of Providers of Proficiency Testing Schemes” (based on ISO/IEC Guide 43-1:1997, relevant elements of ISO/IEC 17025:2005 and relevant ISO 9000:2005 requirements). Therefore, in recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this provider to offer the following proficiency testing programs:

DISCIPLINE	SUB-DISCIPLINE	PROPERTIES MEASURED TYPE OF TEST RANGE OF MEASUREMENT
DIMENSIONAL	1D – portable gauging and hand tools	Micrometers Up to 50 mm Up to 2 in Calipers Up to 150 mm Up to 6 in Indicators Up to 12.5 mm Up to 0.5 in
	1D – artifacts, standards, and parts	Gage Blocks Up to 500 mm Up to 20 in Plug Gages Up to 50 mm Up to 2 in Ring Gages Up to 100 mm Up to 4 in Micrometer Standards (25 to 300) mm (1 to 12) in Artifacts Up to 500 mm Up to 20 in

DISCIPLINE	SUB-DISCIPLINE	PROPERTIES MEASURED TYPE OF TEST RANGE OF MEASUREMENT
<b>DIMENSIONAL (Continued)</b>	2D – artifacts, standards, and parts	Artifacts Up to (500 x 500) mm Up to (20 x 20) in
	3D – artifacts, standards, and parts	Artifacts Up to (500 x 500 x 500) mm Up to (20 x 20 x 20) in
	Other	Thread Plug Gages Up to 50 mm Up to 2 in Thread Wires Up to 5 mm Up to 0.2 in
<b>ELECTRICAL – DC/LOW FREQUENCY</b>	Current	DC Current <sup>1</sup> 1 mA to 3 A AC Current <sup>1</sup> 100 mA to 3 A @ 3 Hz to 5 KHz
	Voltage	DC Voltage <sup>1</sup> 10 mV to 1000 V AC Voltage <sup>1</sup> 10 mV to 750 V @ 3 Hz to 300 KHz
	Resistance	10 Ω to 100 MΩ <sup>1</sup>
	Capacitance	Capacitance <sup>1</sup> 100 pF to 1 μF @ 1 kHz to 100 kHz Capacitance 50 pF to 1.1111 μF @ 1 kHz
	Oscilloscope Functions	Gain <sup>1</sup> 10 mV to 50 V Vertical Bandwidth <sup>1</sup> (100 to 600) MHz Tim Base Deviation <sup>1</sup> 2 ns to 20 ms Vertical Position Deviation <sup>1</sup> (0.1 to 10) V

DISCIPLINE	SUB-DISCIPLINE	PROPERTIES MEASURED TYPE OF TEST RANGE OF MEASUREMENT
<b>ELECTRICAL – DC/LOW FREQUENCY (Continued)</b>	Process Calibrators	DC Current <sup>1</sup> (1 to 24) mA DC Voltage <sup>1</sup> 10 mV to 30 V Resistance <sup>1</sup> 40 Ω to 3.2 kΩ Thermocouple Simulation <sup>1</sup> Type J (-200 to 1200) °C Type K (-200 to 1370) °C Type T (-200 to 400) °C Type E (-200 to 950) °C Type R (-20 to 1750) °C Type S (-20 to 1750) °C Type B (600 to 1800) °C Type L (-200 to 900) °C Type U (-200 to 400) °C Type N (-200 to 1300) °C  RTD Simulation <sup>1</sup> Ni120 (-80 to 260) °C Pt100 (-200 to 800) °C Pt200 (-200 to 630) °C Pt500 (-200 to 630) °C Pt1000 (-200 to 630) °C
<b>ELECTRICAL – RF/MICROWAVE</b>	Attenuation, AM/FM/PM modulation, power	RF Power Sensor Calibration Factor 10 MHz to 18 GHz <sup>1</sup> Microwave Attenuators Attenuation and Phase 3, 6, 10, 20 dB @ 200 MHz to 18 GHz <sup>1</sup>
<b>MECHANICAL</b>	Pressure, vacuum	(-14 to 750) psi <sup>1</sup>
	Hardness	Measurement of Hardness (40 to 100) HRB (20 to 65) HRC
	Torque, force, durometers, extensometers, strain gauges	Force Gages <sup>1</sup> (10 to 5000) lbf Torque Wrenches <sup>1</sup> 6 in-lb to 100 ft-lb
	Scales & balances, mass	Weights (1 to 500) g

<b>DISCIPLINE</b>	<b>SUB-DISCIPLINE</b>	<b>PROPERTIES MEASURED TYPE OF TEST RANGE OF MEASUREMENT</b>
<b>THERMODYNAMICS</b>	Thermometers	PRT Thermometers <sup>1</sup> (-30 to 300) °C
	Temperature indicating systems/environmental monitoring	Humidity Sensors <sup>1</sup> (10 to 90) %RH
	Blackbody/IR	IR Thermometer <sup>1</sup> (0 to 500) °C
<b>TIME &amp; FREQUENCY</b>	Period, time, frequency	Frequency Standard 10 MHz Stop Watch <sup>1</sup> Deviation per 24 h Tachometer <sup>1</sup> Optical (30 to 95 000) rpm Mechanical (100 to 19 900) rpm

<sup>1</sup> Participants source the listed parameter.



The American Association for Laboratory Accreditation

World Class Accreditation

# *Accredited Proficiency Testing Provider*

A2LA has accredited

## **HN PROFICIENCY TESTING, INC.**

*Indianapolis, IN*

for technical competence as a

### **Proficiency Testing Provider**

This accreditation covers the specific proficiency testing samples listed on the agreed upon Scope of Accreditation. This provider meets the ILAC G-13:2007 Guidelines for the Requirements for the Competence of Providers of Proficiency Testing (comprising ISO Guide 43-1:1997, as well as relevant elements of ISO/IEC 17025:2005 applicable to characterization, homogeneity and stability testing of proficiency testing materials), and the management system requirements of ISO/IEC 17025:2005, which includes the principles of ISO 9000:2005.

Presented this 16<sup>th</sup> day of August 2010.





President & CEO  
For the Accreditation Council  
Certificate Number 1966.01  
Valid to August 31, 2014

*For the proficiency testing schemes to which this accreditation applies, please refer to the provider's Scope of Accreditation.*