



National Association for Proficiency Testing

A Non-Profit Organization Dedicated to Excellence in Metrology & Test Measurement

CURRENT ILC/PT's

Discipline/Sub-Discipline	ILC Artifact (s)	Test ID
ELECTRICAL-DC/LOW FREQUENCY		
Current	<ul style="list-style-type: none"> • Digital Multimeter • 6.5 Digit DMM • Handheld DMM • Digital Clamp-On Multimeter 	<ul style="list-style-type: none"> • DMM-211 • DMM-101 • DMM-306 • CLAMP-309
Voltage	<ul style="list-style-type: none"> • Digital Multimeter • 6.5 Digit DMM • Handheld DMM • Digital Clamp-On Multimeter • 10 Volt DC Reference Standard 	<ul style="list-style-type: none"> • DMM-211 • DMM-101 • DMM-306 • CLAMP-309 • ELECTRICAL_S732B
Power	○ To be developed as need arises	○ To be Developed
Impedance	• Impedance Meter	• LCR-METER-108
Inductance	<ul style="list-style-type: none"> • Inductance Meter • Standard Inductors 	<ul style="list-style-type: none"> • LCR-METER-108 • SIND-100
Capacitance	<ul style="list-style-type: none"> • Capacitors • Capacitance Meter 	<ul style="list-style-type: none"> • CAPACITANCE_S1409 • LCR-METER-108
Resistance	<ul style="list-style-type: none"> • Digital Multimeter • 6.5 Digit DMM • Handheld DMM • Digital Clamp-On Multimeter • Standard Air Resistors 	<ul style="list-style-type: none"> • DMM-211 • DMM-101 • DMM-306 • CLAMP-309 • RESISTANCE-201
Oscilloscope functions	• Oscilloscope	• ELECTRICAL _M TDS544A
ELECTRICAL-RF/MICROWAVE		
Attenuation, db	• db Loss	• ATNR-dB Loss-210
Attenuation, AM/FM/PM modulation, power	<ul style="list-style-type: none"> ○ Attenuator Set • Power Meter 	<ul style="list-style-type: none"> ○ Under Development • ELECTRICAL-HP436A
Adapters, antennas, CDNs, ferrite clamps, ESD simulators, signal generators, LISNs, current probes, EMI receivers, spectrum analyzers	○ To be developed as need arises	○ To be developed



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SWR	○ VSWR	○ To be developed
Noise	○ To be developed as need arises	○ To be developed
TIME & FREQUENCY		
Period, time frequency	<ul style="list-style-type: none"> • Frequency Counter (High Stability) • Frequency Counter • Tachometer/Stopwatch 	<ul style="list-style-type: none"> • ELECTRICAL_sHP5342 • ELECTRICAL_sPM6680 • TACH/STOPWATCH-107
DIMENSIONAL		
1D-portable gauging & hand tools (calipers, height gages, indicators, micrometers, rulers, etc)	<ul style="list-style-type: none"> • Height Gage • Hand Tool Set • Digital Micrometer & Caliper Set 	<ul style="list-style-type: none"> • HGTG-306 • IMC-401 • MIC-201
1D-artifacts & standards (angle blocks, external/internal cylinders, gage blocks, lasers, length bars, line scales, sine plates, sieves or mesh openings, spheres, stage micrometers, step gages, etc)	<ul style="list-style-type: none"> • Angle Block (squareness) • Gage Block Set (1" to 4") • Gage Block Set (3" to 20") • Micrometer Length Standards • Pin Gage Set • Plug Gage Set • Plain Cylindrical Ring Gage Set • Roundness Tester • Vision Systems (Line Scales) • Stage Micrometer • Thread Wires Set 	<ul style="list-style-type: none"> • ANGLE-107 • GAGE-709 • GAGE-201 • MICLS-101 • PIN-100 • PLUG-209 • RING-106 • ROUNDNESS-111 • GLASS SCALE-111 • RPS-102 • WIRE-102
2D-portable/fixed gauging & hand tools (bevel protractors, clinometers, levels, linear measuring machines, measuring microscopes, optical comparators, squareness testers, theodolites, etc)	<ul style="list-style-type: none"> • Optical Comparator * ○ Additional ILC/PTs for this discipline will be developed as need arises <p>* Regional ILC</p>	<ul style="list-style-type: none"> • ROC-100
Form (external/internal cylinders, flatness standards, lenses, magnification standards, optical flats/parallels/wedges, spheres, surface plates, etc)	<ul style="list-style-type: none"> • Granite Surface Plate * <p>* Regional ILC</p>	<ul style="list-style-type: none"> • RGSP-100



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3D-gauging & standards (ball plates, CMMs, grid plates, etc)	<ul style="list-style-type: none"> • Dimensional Inspection (CMM Test Block) • Dimensional Inspection (CMM Test Block) • Dimensional Inspection * • Dimensional Inspection (Hand Tools) <p>* Regional ILC</p>	<ul style="list-style-type: none"> • CMM-106 • CMM-208 • CMM-112 • INSP-201
Other (gears, groove depth standards, pitch masters, profilometers, roughness standards, threaded devices, tip condition, etc)	<ul style="list-style-type: none"> • Thread Set Gage • Thread Set Gage 	<ul style="list-style-type: none"> • THTP-104 • THTP-209
MECHANICAL		
Hardness	<ul style="list-style-type: none"> • Hardness Test Blocks 	<ul style="list-style-type: none"> • TESTBLOCK-211
Hardness (direct verification, indirect verification, geometry)	<ul style="list-style-type: none"> • Rockwell Hardness Tester * <p>* Regional ILC</p>	<ul style="list-style-type: none"> • RRHT-100
Pressure, vacuum	<ul style="list-style-type: none"> • 38 PSI Pressure Transducer • 0-15" H₂O Digital Pressure Gage • 100 PSI Pressure Transducer • 1000 PSI Digital Test Gauge • 1000 PSI Pressure Transducer • 1000 PSI Digital Pressure Gage • 10K PSI Pressure Transducer • +/- 30 Compound Gage • Vacuum (0 to 900 mm Hg) 	<ul style="list-style-type: none"> • PRESSURE_M6220 • PRESSURE-411 • PRESSURE-103 • PRESSURE-211 • PRESSURE-203 • PRESSURE-311 • PRESSURE-302 • PRESSURE/VAC-111 • VACUUM-355
Force, durometers, extensometers, strain gauges	<ul style="list-style-type: none"> • Digital Torque Transducer w/Indicator • Digital Torque Transducer w/Indicator • Durometer • 1000# Load Cell • 1000# Load Cell w/Indicator • 25K Load Cell (compression) • 25K Load Cell (tension) • 25K Load Cell (compress.) w/Indicator • 25K Load Cell (tension) w/Indicator ○ 50K Load Cell (compress.) • 100# Force Gage • 50# Force Gage 	<ul style="list-style-type: none"> • DTTIND-307 • DTTIND-317 • DUROMETER-2240 • FORCE-203 • FORCE-301 • FORCE-601 • FORCE-602 • FORCE-603 • FORCE-604 ○ To be developed • FORCE -401 • FORCE-402



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Torque	<ul style="list-style-type: none"> • Torque Wrench Set • Torque Wrench Set • Torque Screwdriver Set • Torque Transducer ○ Torque Arm 	<ul style="list-style-type: none"> • TORQ-201 • TORQ-407 • TORQSD-109 • TORQ-301 ○ To be developed
Acceleration, speed, vibration	<ul style="list-style-type: none"> • Tachometer/Stopwatch • Vibration • Vibration • Vibration 	<ul style="list-style-type: none"> • TACH/STOPWATCH-107 • VIBRATION-106 • VIBRATION-206 • VIBRATION-306
Pipettes	<ul style="list-style-type: none"> • Adjustable Volume 	<ul style="list-style-type: none"> • PIPETTE-212
Scales & balances, mass	<ul style="list-style-type: none"> • Mass Weight Set ○ Mass Weight Set (Class F) • Analytical Balance* • Bench Scale* <p>* Regional ILC</p>	<ul style="list-style-type: none"> • MASS-101 ○ Under development • SCALE-302 • SCALE-402
ACOUSTICAL		
Dosimeters, mastoids, sensors	<ul style="list-style-type: none"> ○ To be developed as need arises 	<ul style="list-style-type: none"> ○ To be developed
Calibrators	<ul style="list-style-type: none"> ○ Acoustic 	<ul style="list-style-type: none"> ○ To be developed
FLUID		
Volume, density, specific gravity, mass/volume flow	<ul style="list-style-type: none"> • Gas flow ○ Mass Flow 	<ul style="list-style-type: none"> • GASFLOW-208 ○ To be developed
OPTICAL		
Lasers, fiber optics	<ul style="list-style-type: none"> ○ To be developed as need arises 	<ul style="list-style-type: none"> ○ To be developed
Power, luminosity, radiance, irradiance, color	<ul style="list-style-type: none"> ○ To be developed as need arises 	<ul style="list-style-type: none"> ○ To be developed
Optical density	<ul style="list-style-type: none"> ○ To be developed as need arises 	<ul style="list-style-type: none"> ○ To be developed
Metallographs, photomicrographs	<ul style="list-style-type: none"> ○ To be developed as need arises 	<ul style="list-style-type: none"> ○ To be developed



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THERMODYNAMICS		
Thermometers, ovens, furnaces	<ul style="list-style-type: none"> Platinum Resistance Thermometer Thermistor Probe Glass Thermometer Kit -7°C to 150°C IR Thermometer Digital Thermometer & Probe 	<ul style="list-style-type: none"> PRT-510 THERMISTOR-201 TEMP-ASTM-60C TEMP-IR-111 TEMP-DIGITAL-111
Temperature indicating systems/environmental monitoring (RH, RTD's, thermocouples)	<ul style="list-style-type: none"> Humidity Sensor – Salt Solution Humidity - Generation Chamber Process Controller Type S Industrial Thermocouple RTD Probe Thermocouple Calibrator Thermocouple Calibrator 	<ul style="list-style-type: none"> HUMIDITY-SS-1 HUMIDITY-GC-4 TEMP-301 THER-206 RTD-110 TCC-311 TCC-208
IONIZING RADIATION & RADIOACTIVITY		
Dosimetry	○ To be developed as need arises	○ To be developed
Radiation protection/health physics survey instruments	○ To be developed as need arises	○ To be developed
Radioactive source calibration	○ To be developed as need arises	○ To be developed
CHEMICAL		
Gas concentration	○ To be developed as need arises	○ To be developed

Additional Interpretation:

The ILC/PT's with Test IDs assigned are presently in circulation and ready for your participation. Additional ILCs will be developed as the need for them becomes evident.

It is NAPT's policy to design and make available additional ILC/PT's as current ILC/PT's expire, complete their cycle, and/or as need arises. Please note that NAPT is constantly developing new ILCs with your needs in mind, and we are very open to your suggestions.



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CURRENT ILC/PT's

NAPT technical staff can design an ILC program around your needs, combination of NAPT ILC/PT's, regional participation and/or internal ILCs conducted at your site.

Regional ILCs are conducted throughout the country at various times throughout the year.

For more information on NAPT's ILC/PTs, Regional ILCs or Internal ILCs, please visit our website at www.proficiency.org or call us at 952-303-6126.