

TRUSTED SINCE 1958

LINEMAN'S TESTING LABORATORIES OF CANADA

UTILITY SUPPLY







LINEMAN'S TESTING LABORATORIES OF CANADA

Since 1958, LINEMAN'S TESTING LABORATORIES OF CANADA ("LTL") has partnered with the power utility, electrical industrial, and forestry sectors across Canada for the provision of compliant solutions for electrical system reliability and the protection of the worker. We are proud to be part of such a dynamic industry and wish to thank our valued customers for trusting LTL. In January 2023, LTL was acquired by Rexel Canada. This acquisition has allowed LTL to continue to grow and better support existing customers with new programs, as well as serve Rexel customers across Canada with LTL's extensive product and compliant service offerings. We are confident that with Rexel and LTL working together, we will have a greater impact on worker safety.

Established in 1958 as a leading high voltage electrical service provider, LTL continues to diversify and expand to include the distribution of a vast selection of quality, brand name industry-related safety products, tools, and equipment. Representing national and international manufacturers, LTL stocks the largest inventory of insulating rubber goods, personal protective equipment, utility tools and equipment in Canada, while offering product recertification, fall arrest equipment inspection, factory-authorized tool repair and calibration in its full service NAIL-accredited high voltage testing centres.

LTL successfully maintains a loyal customer base across Canada and is recognized and respected for its integrity, and long-term business relationships. With an extensive inventory, sales offices, distribution centres, and high voltage testing and repair centres across Canada, our 7,000+ customers have come to rely on LTL for a turnkey solution including assistance with compliant product selection, timely delivery of brand name products, as well as accurate and reliable services.

With LTL having 65 years of experience, LTL customers have the confidence knowing that we understand the risks and dangers associated with working in this industry. The LTL team includes subject-matter experts, product specialists, knowledgeable customer care representatives, and professional facilitators with extensive industry experience. Our team remains apprised of changing legislation to assist customers in the proper selection of tools and protective equipment required for the specific task, as well to support our customers in exercising due diligence, while ensuring compliance for the proper care, use and maintenance of this equipment.

LTL has the skills, knowledge and tools to ensure you are compliant.

Coast-to-Coast Coverage Across Canada

MB, ON, QC, NB, NS, PE, NL:800-299-9769 | Email: main@ltl.caAB, SK, YT, NT, NU:800-530-8640 | Email: mainab@ltl.caBritish Columbia:604-839-6911 | Email: mainbc@ltl.ca

Visit www.ltl.ca | ltlutilitysupply.com



What sets us apart?

- Niche product and service provider all-in-one; we SERVICE what we SELL
- Over 65 years of serving the Utility, Electrical, Forestry, and Telecom industries
- Electrical Engineering/Substation Division provides technical support to our product specialists when required
- industry-experienced team including laboratory technicians, factory-authorized repair technicians, knowledgeable sales and customer care reps, linemen, electrical engineers and technologists, master electricians
- We have the knowledge, skills and tools to ensure you are compliant

PROTECT WORKERS ~ IMPROVE SAFETY ~ INCREASE EFFICIENCY ~ ENSURE COMPLIANCE



High Voltage Testing, Calibration, Inspection and Factory-Authorized Warranty Tool Repair



LTL at a Glance

LTL UTILITY SUPPLY ~ Extensive Inventory



Training & Education ~ Online & On-site



Arc Flash Safety Program



Power Technical Services



Surplus Equipment Refurbished Recovery & Sales

Trusted since 1958 for our brand name products, industry-experience and unbeatable value!

Manufacturers



Not all products are available for sale across Canada. Please contact your local LTL rep for more information.

Products

INEMAN'S TESTING

ABC

GLOVES - RUBBER & WORK

Gloves Sleeves Glove Bags Glove Care

COVERUP - RUBBER & FIBER

Pole Guards Line Hose **Rubber Blankets**

LIVE LINE TOOLS

Grip-All Sticks, Switch Sticks Link Sticks & Measuring Sticks Live Line Platforms & Ladders Universal Tool Accessories

GROUNDING & JUMPERS

Live Line Jumpers Grounding Clamps Grounding Cables Grounding Accessories Earth Anchors

PERSONAL PROTECTION

Arc Flash Clothing & Accessories Head, Face & Eye Footwear Sunscreen & Insect Repellent

FALL PROTECTION & CLIMBING TRAFFIC SAFETY

Harnesses Lanyards Self-Retracting Lifelines (SRLs) Belts Pole Chokers

METERS & TESTERS

Potential Indicators Phasing Sticks Contamination Meters Digital Multi-Meters Clamp Meters

TOOLS

Lineman's Apprentice Starter Kit Shackles/Chains Insulated Hand Tools Uninsulated Hand Tools Loadbust /Spiking Tools **Cable Scorers & Strippers** Shovels & Rakes Hammers & Diggers Accessories & Bits

CUTTERS & CRIMPERS

Battery Powered Hydraulic Manual **Compression Dies** Shell Actuated Wedge Tools

UNDERGROUND &

CONFINED SPACE Gas Detection **Tents & Shelters** Ladders

Traffic Cones Signs, Paddles and Flags Apparel Delineators Sign Systems

RIGGING

Grips Hoists Hoist Accessories Slinas Nylon & Wire Rope Load Binders **Reel Lifting Device**

TRUCK

Custom Truck Kits **Digger Derrick Truck Kit** Wheel Chocks Lua Locks **Outrigger Pads** Hinges & Rubber Accessories **Truck Body Accessories Reels & Accessories Tool Organizers** Safety Hooks **Platform Tool Trays Tool Boards** Platform Covers Liners & Scuff Pads **Tool Holders Temporary Ground Mats Bags & Pouches Buckets & Accessories** Aprons

Chainsaw Scabbard **Miscellaneous Platform Equipment**

LIGHTING & ACCESSORIES

Flashlights Lanterns

FORESTRY

Carabiners Pruners Pole Saw Heads & Saw Blades **Fiberglass Sticks Couplers & Fittings** Rope **Fall Protection** (refer to Fall Protection & Climbing) **Chainsaw Protection**

STRINGING

Travellers **Pulling Equipment** Swivels Dynamometer Ropes

PAINTS & CLEANERS

Cleaning & Lubricants Inverted & Fluorescent Paints

ELECTRICAL APPARATUS & POLE LINE EQUIPMENT

Crimp/Compression & Wedge Tap Connectors

ACCESSORIES

IR Windows Ground Protection Mats Protective Cases Heat/Cold Shrink **Splices & Connectors** Terminations Tapes Stainless Steel Banding/Cable Ties



The Solution

- Canada's Largest Inventory of Insulating Rubber Gloves, PPE, Utility Tools, and Safety Equipment
- Canada's Largest NAIL-Accredited High Voltage Testing Centres
- Factory-Authorized Warranty Tool Repair including hydraulic and battery operated tools
- Certified Custom Grounding Assemblies
- · Automatic Replacement Program ensures timely turnaround of PPE/equipment to ensure safety of workers
- Compliant Uniform Fitting and Recommendation by LTL Product Specialists
- Online and Classroom Electrical Safety Training
- Expedited/Rush Order Service
- · Green Cycle Equipment Recovery & Sales refurbished transformers, line hardware and surplus equipment
- Emergency Inventory Availability 24/7
- Natural Disaster/Emergency Contingency Plans-Laboratory Redundancy (Edmonton & Toronto Facilities)

Service & Repair Centres

IMPORTANT

Protect your workers and your business while exercising due diligence, ensure your test lab is a reputable, accredited-certified lab

Canada's Largest NAIL-Accredited Centres

At LTL, we supply, test, calibrate, repair tools, and recertify personal protective equipment. LTL's specialized technicians ensure proper handling of all equipment when in our facilities. To ensure compliance, all equipment is tested to applicable standards or as directed by our customers.

NAIL is a not-for-profit organization dedicated to the development of uniformity and setting standards in testing, working in close association with ASTM and ANSI. To maintain accreditation, regular audits are conducted to ensure all industry accepted standards are strictly adhered to; the audit encompasses review of operational areas including but not limited to laboratory facility, equipment, training and knowledge of staff, quality control work procedures, and financial responsibility. Independent test facilities operating without NAIL-accreditation are not monitored to ensure industry best practices and standards are followed.

Certification and accreditation are often terms used interchangeably when discussing testing laboratories; however, there IS a difference. Oftentimes, laboratories are certified by organizations not from within the testing and/or PPE industry, with knowledge that is limited to their interpretation of the relevant standards; or, laboratories may not be certified, and offer services with no regard for compliance as required by IHSA. Accreditation is the formal declaration by a qualified and knowledgeable third party that the testing program is administered in a rigorous manner that strictly adheres to relevant standards for the equipment being tested, and that the lab operation as a whole meets industry best practices.

EXERCISE DUE DILIGENCE: Ensure the Lab testing your PPE is a NAIL-Accredited Certified Laboratory that provides a test report which proves advantageous in demonstrating due diligence to necessary authorities. Read the full article at: www.ltl.ca/resources/oel-article-exercise-due-diligence.pdf

NAIL-Accredited High Voltage Testing & Recertification: Electrical Gloves & Rubber Goods (blankets, cover-up, line hose)

- Largest stocking Canadian Distributor of Salisbury by Honeywell Insulating Rubber Gloves and related PPE
- Extensive product inventory; thousands of quality brand name products from the industry's leading manufacturers



Fabrication and Authorized Warranty Repair of Live Line Tools & Ground Assemblies

Live Line Tool Certification, Repair and Re-Stocking: Extend the life of your live line tools

Certified Custom-Configured Ground Set Assembly and Annual Testing

- LTL builds an assortment of distribution/station grounding assembly units
- Grounding assembly clamps provide optimum support at the cable/ferrule connection when using a stress relief system
- Tinned copper threaded ferrules ensure low resistance connections
- Grounding cables are made with an extra strand of soft drawn #30 AWG (.01") copper, and are available in three jacket colours: yellow, clear, orange
- All grounding assembly components are tested to ASTM F855 by the manufacturer



LTL recommends annual laboratory cleaning, inspection, waxing, and testing of fiberglass tools to ensure safety and to extend the life of your tools.

SEE IEEE STANDARD 978-1984 Guide for In-Service Maintenance and Electrical Testing of Live Line Tools, Section 4.2





Metering, Instrumentation and Gas Detection Equipment Testing, Calibration & Repair

Meter Manufacturing, Repair and Calibration : Auto-Notification Test-Calibration Due

LTL's Instrument Technologists test, repair, and calibrate electrical instruments and equipment including, but not limited to:

- Digital Multimeters
- Potential Indicators
- Clamp Meters
- Meggers

- Rotation Meters
- Ground Thumpers
- HiPot Testers
- Decade Boxes
- LTL Technicians offer assistance in establishing both testing and calibration schedule intervals to ensure equipment is reliable and ready for use
- Meter calibration and repair is traceable to NIST/NRC and in compliance with ISO 17025
- LTL supplies brand name meters from industry-leading manufacturers
- Also available, LTL-brand 361 contamination meters and potential indicators (7kV, 15kV, 30kV)



Factory Authorized Warranty Repair Centres & Tool Testing

- Load break tools
- All hydraulic and battery operated tools
- All hoist/chain jacks
- Tools and replacement parts in stock
- Rental programs available
- Annual Certification



Certified Fall Protection Inspection, Maintenance & Repair

Industry best practices recommend field inspection of fall protection equipment prior to each use to ensure worker safety. As well, fall protection equipment should be thoroughly inspected annually by an accredited certified laboratory. LTL's certified Miller & DBI Sala/Capital Safety technicians offer inspection of harnesses, ropes, and slings to ensure the integrity of the fall arrest gear. Factory-Trained and Certified.

- Harnesses
- Ropes
- Slings
- Lanyards
- SRL's



_INEMAN'S TESTING LABORATORIE

Training & Education

With over 65 years of industry-related technical expertise, LTL facilitators deliver specialized informational seminars. LTL's knowledgeable facilitators remain current with legislation relating to worker safety and personal protective equipment requirements, and have presented to numerous organizations in the electrical, industrial, and health and safety fields.

Ensure you and your workers have the proper information necessary to promote a safe working environment while meeting legislated requirements. Seminars include instruction, training materials, and certificate of completion. We would be pleased to customize any of our sessions to best suit your specific requirements.

Online Electrical Worker Safety Training



Lineman's Testing Laboratories is pleased to recommend this program as the most interactive, informative and easy-to-follow online electrical safety training system in the industry today!

This user-friendly, online electrical training program offers a convenient, cost-effective solution for establishing safe work practices to ensure personal safety when exposed to energized electrical equipment. Whether at work or home, this Electrical Safety Training System (ESTS) has been specifically designed to suit the needs of the electrical and non-electrical worker.

The ESTS is a multi-media based, highly interactive experience comprised of several modules with multiple lessons, knowledge checks and a final assessment. The ESTS uses 3-D "Virtual Electrical Workplace" scenarios and a unique digital electrical classroom as a learning aid to teach concepts. Each module includes a knowledge check that utilizes interactive elements that engage the student in the learning process. The ESTS for electrical worker is a four-hour course incorporating industry accepted best practice standards, while the non-electrical course is 45 minutes.

Visit Itl.ca to get started.

Classroom Safety Training at your location or ours...



LTL provides the following in-class training seminars:

- Electrical Insulating Rubber Gloves
- Arc Flash Awareness: Are you Covered?
- Live Line Tools: Field Care & Maintenance

Who should attend?

- · Anyone working on or near live electrical apparatus
- Supervisors, Managers, Business Owners
- Health and Safety Representatives

For more information, or to book a safety training session at your workplace, e-mail seminars@ltl.ca or call 800-299-9769.



Arc Flash Awareness

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tlutilitysupply.com



Live Line Tools: Field Care & Maintenance



Insulating Rubber Gloves

LTL Arc Flash Safety Program

Protecting electrical workers since 1958, Lineman's Testing Laboratories is your single source for arc flash safety. Our complete Arc Flash Safety Program is managed and executed by our in-house electrical engineers, technicians, sales representatives and facilitators, and we inventory all required personal protective equipment (PPE). The program includes a CSA Z462-compliant Arc Flash Hazard Study, labeling of all applicable electrical equipment, supply of required PPE, and training.

Proper safety practices and on-going personnel training can minimize the likelihood of electrical injuries and fatalities due to shock, electrocution, arc flash and arc blast. At risk are employees who work on or near exposed energized electrical conductors or circuit parts including electrical maintenance personnel, operators, troubleshooters, electricians, linemen, engineers, site safety personnel, or anyone exposed to energized equipment.



CSA Z462 Compliant Arc Flash Hazard Study

Lineman's Testing Laboratories' comprehensive Arc Flash Studies determine potential arc flash incident energies and boundaries, shock hazard boundaries and proper personal protective equipment required for energized electrical equipment tasks for the system studied.

Performed by LTL's qualified engineers and technicians, LTL's Arc Flash Hazard Analysis includes:

- Complete engineering services
- Site assessment and data collection
- Short circuit and protective device coordination studies
- Labeling warning labels identifying potential hazards and required safety equipment are affixed to all applicable electrical equipment
- Easy-to-read detailed Arc Flash Analysis reports
- Supply of personal protective equipment for arc flash protection
- Training It is imperative that workers understand how and why the required PPE will help them, as well as how to properly care for and inspect this equipment to comply with legislation and ensure equipment integrity





FEATURED PRODUCT LINES



Made in the USA, CPI connectors have been used with near perfect annual installation performance by major Utilities across the USA for over 35 years, and by Utilities in Canada for over 25 years.

- Utilizes the industry-proven Wedge Connecting principle and is quick and easy to apply with a common socket or impact wrench. NO SPECIAL TOOLS.
- The "Spring-Like" qualities of the C-Body ensure permanent connection and maintains consistent pressure on the conductors.
- Installation time is quicker than conventional connectors and easily adaptable to standard hot-stick tools.
- High-conductivity grit type corrosion inhibitor is factory applied for ease of installation and longevity while the connector is in service.



STOCKING DISTRIBUTOR FOR GPP PRODUCTS ACROSS CANADA

Earth Anchors

- Poleline Hardware
- Aerial Drop Hardware
- Drop Attachments
- Grounding Hardware
- Tools
- AnchorsFasteners
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Hardware meets required standards.

LTL STOCKS AND SERVICES CHANCE PRODUCTS

Subsidiary of Hubbell Incorporated, CHANCE manufactures electric utility transmission and distribution products.

- LTL stocks and services the following products by Chance: Rubber Goods - Insulating Rubber Gloves, Cover-Up
- Live Line Tools
- **Grounds & Jumpers**



STOCKING DISTRIBUTOR FOR MAKITA PRODUCTS Thakita

- Best single platform, rapid charge lithium-ion battery on the market
- Battery may be used with Makita[®], Greenlee, Burndy and Sherman+Reilly tools
- Tools are more compact, have less vibration, feel better, and . are built for maximum performance
- Brushless impact wrench delivers industry-leading maximum fastening and drilling torque
- Over 100 years of innovation



STOCKING DISTRIBUTOR

ACROSS CANADA



STOCKING DISTRIBUTOR FOR ANSELL/ MARIGOLD® (ACTIVARMR) PRODUCTS

- Meets applicable ASTM, NFPA, OSHA, CSA and EN standard.
- Available in Class 00, 0, and 2 in yellow, red and black at various lengths
- Remember to always wear leather protectors over insulating rubber gloves for mechanical protection



SOPPEC

- Safest and most effective marking solution in Canada
- **Highly fluorescent**
- Multi-directional
- Environmentally safe. 100% synthetic formula that doesn't freeze
- No carcinogens
- No clog nozzle
- Outperforms other paint cans by 20%
- 5-year shelf life





STOCKING DISTRIBUTOR ACROSS CANADA

- Cordless Impact Wrenches, Impact Drivers, Drill Drivers, Nailers, Grinders, Circular Saws, Tool Sets, Batteries, Tool Chargers
- **Drill Bits** Saw Blades
- Sockets
- Screwdriver Bits







STOCKING DISTRIBUTOR ACROSS CANADA

- Hand Tools (Pliers, Knives, Hammers, Wrenches)
- **Battery-Operated Tools**
- Wire Pulling Grips
- Cable/Bolt Cutters •
- **Measuring Tools** •
- Impact Sockets •
- Bags, Pouches and Belts



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Power Technical Services

Engineering/Substation

- Electrical power system specification/substation engineering/design engineered models
- High voltage engineered plan submissions to electrical utilities and Electrical Safety Authorities
- Short circuit current analysis and co-ordination studies
- Substation ground grid studies

MAN'S TESTING I ABORATORIES

- Electrical and electronic testing of high and low voltage substation components
- Power factor correction analysis and power quality studies
- Underground cable locating
- Transformer/Substation commissioning
- Protection system design/upgrades
- Protection relay panel design & fabrication
- NERC requirement consulting
- SCADA/HMI design and drawings
- Protection and control houses
- Troubleshooting and problem analysis
- Arc Flash Hazard Studies in accordance to CSA Z462: includes site assessment and data collection, short circuit and protective device coordination, labeling, easy-to-read detailed arc flash analysis reports, and protective equipment supply and training





Field Services

- Complete transformer commissioning and testing
- Transformer repair
- Transformer assemble/disassemble, transportation
- Fin replacement
- Bushing replacement
- Tap changer maintenance, repair and replacement
- Oil leak termination
- Painting
- Mobile Transformer oil regeneration
- Rewind service (shop only)
- Substation maintenance -- testing and calibration, inspection, adjustment, cleaning, repair and analysis of electrical insulating fluids
- Infrared Thermography (Scanning)
- New unit specification and supply
- Surplus equipment sales and purchase

Emergency Power Solutions

- 24-HR emergency services for commerical, industrial and utility sites: installations, repairs, splicing, terminations, fault locating, temporary cable supplies
- Generators and related equipment rentals: Transformers, metalclad switchgear, switches, towers, fuses



LTL IS A CERTIFIED S&C SUPPORTED CONTRACTOR - PMH AND PME PAD-MOUNT GEAR REFURBISHING

LTL's S&C factory-trained technicians support and complement S&C's vision for a complete customer service package that ensures in-service S&C equipment is maintained using original equipment parts, in an expedient manner, to manufacturer specifications for design and safety. LTL offers:

- Equipment exchange programs
- Maintenance programs
- Painting

- Testing
 - Commissioning



We service all switchgear, including, but not limited to, PMH and PME pad-mounted gear, offering complete restoration to near-new quality. LTL's full service offering includes pick-up of equipment at the customer site, removal from in-service yard locations, and tailored service to specific customer requirements.



NOTE: Services available in Ontario only.





Station Class Transformer Refurbs



Pad Mount Transformer Refurbs



Power Technical Services

Mobile Transformer Oil Regeneration

By maintaining the transformer oil at near new condition at all times, the transformer's lifespan can be significantly prolonged and the risk of dielectric breakdown reduced, resulting in significant cost savings.

Lineman's Testing Laboratories' fully automated, state-of-the-art mobile oil regeneration process is an environmentally friendly and cost-effective solution to extending the life of your transformer. Meeting MOE requirements, LTL's system uses a relatively low amount of electricity and can process up to four million litres of oil before changing the filter medium; the filter medium is then disposed of as clean fill. Other methods can produce oil impregnated contaminated wasted.

Transformer Oil Processing Services

- · Filtration: particle removal
- · Dehydration: water removal
- Degasification: removal of gas
- · Purification: includes all of the above
- · Regeneration: acidity, colour
- · Desludging: sludge removal
- Anti-oxidant: DBPC inhibitor additives •
- Core dry-out
- Vacuum fill
- Complete oil sampling with full report (five-way, gas, PCB, furans, water content)
- · Mode 60 oil sales and oil removal program
- PCB management solutions

Oil Regeneration Benefits

- · Regenerated oil performs as new or better
- Improved transformer reliability
- Transformer performs to manufacturer nameplate criteria, increasing fault/over-voltage capabilities
- Protects integrity of internal components
- Extends infrastructure/transformer life cycle
- · Reduces capital expenditure



State-of-the-Art Mobile Oil Regeneration Plant



Plant Processing and Column View





Tx Oil Before and After Regeneration

Plant Control Room



Processing & Vacuum System



Plant Filtration Columns



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How-to videos for inspecting and maintaining safety equipment youtube.com/ltlcanada



Industry and company news, and LTL career opportunities linkedin.com/company/lineman's-testing-laboratories



Sharing product information and news for the utility, industrial and forestry sectors twitter.com/ltlcanada



LTL UTILITY SUPPLY PRODUCT CATALOGUE available for download, featuring 400+ colour pages; thousands of quality products; over 65 industry-leading manufacturers! Visit the Information Centre on Itl.ca to download!



VISIT LTLUTILITYSUPPLY.COM TO SIGN UP FOR:



LTL Buzz: news, product and service information for the power utility, industrial, and forestry sectors

HOT ZONE SPECIALS 🗯 🤇 HOT ZONE SPECIALS: don't miss out on our product deals



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SATISFACTION SURVEY - Tell us how we're doing

At LTL, we are always striving to improve and enhance our customers' experience by offering the best in quality products and customer care. Please take a moment and let us know how we're doing by emailing main@ltl.ca

All information collected is proprietary and will not be disclosed to external entities.



TRUSTED SINCE 1958



Serving the utilities, industrial and forestry sectors coast-to-coast since 1958

HEAD OFFICE

High Voltage Testing, Calibration and Repair Laboratory, Distribution Centre & Sales Office

46 Meridian Road Toronto, ON M9W 4Z7 Telephone: 416-742-6911 Toll-Free: 800-299-9769 Fax: 416-748-0290 Email: main@ltl.ca

WESTERN CANADA

High Voltage Testing, Calibration and Repair Laboratory, Distribution Centre & Sales Office

6212-88 Street NW Edmonton, AB T6E 2Y9 Telephone: 780-434-4911 Toll-Free: 800-530-8640 Fax: 780-434-9911 Email: mainab@ltl.ca

Sales Office - BC Telephone: 604-839-6911 Toll-Free: 866-347-6911 Email: mainbc@ltl.ca

EASTERN CANADA

Sales Office - Quebec

Telephone: 450-477-2787 Toll-Free: 800-299-9769 Fax: 450-477-3388 Email: quebec@ltl.ca

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