



LETTERKENNY ARMY DEPOT CAPABILITIES PACKET

AS OF MAY 2024

LETTERKENNY ARMY DEPOT PAST, PRESENT AND FUTURE



U.S. ARMY



On December 18, 1941, the Secretary of War issued an order to purchase the land for an ordnance depot. It was given the name Letterkenny Ordnance Depot after the township where the land resided.

Construction at the site began in early 1942, and the first shipment of ammunition arrived on September 23, 1942. Decades of war, peace and Base Realignment and Closures reshaped Letterkenny Army Depot, or LEAD. A new facility for Phased Array Tracking Radar Intercept of Target, or PATRIOT, and Homing All the Way Killer, or HAWK, missile recertification activities opened in 2010 after depot-level missile maintenance activities were relocated to LEAD. The depot has proudly served the nation for over eight decades.

PRESENT

LEAD is the Army's Center of Industrial and Technical Excellence, or CITE, for Air Defense and Tactical Missile and Long Range Precision Fire systems. Initially created to store and ship ammunition and ordnance supplies, LEAD is known today as the "missile depot." However, missile capabilities are just the beginning of the depot's full spectrum of competencies. LEAD's mission is to develop and deliver materiel readiness for the Air Defense forces of the United States and its international partners and build combat power for combined and joint route clearance operations worldwide. A subordinate of the U.S. Army Aviation and Missile Command, LEAD is a capabilities-based versus a commodity-based depot. Its geographical location in south-central Pennsylvania provides easy access to both air and rail transportation as well as major interstate routes.

LEAD has been building public-private partnerships, or P3s, with the private industry since 2003. Title 10 United States Code allows for P3s that lower the cost of products and services, sustain critical skills and capabilities, and improve operational efficiencies. The successful accomplishments and positive collaboration of the P3s continue to expand new workload opportunities, provide mutual partner success, reduce costs and improve soldier readiness.

LOOKING TOWARD THE FUTURE

LEAD's core expertise is in Air and Missile Defense systems, and has aligned its modernization plan with the Army's 15-year Organic Industrial Base Modernization Implementation Plan. LEAD is modernizing its facilities, processes and workforce to bring the OIB into the 21st century. The depot's comprehensive modernization plan infuses industry best practices and refines human resource management structure to maximize the skills and capabilities of its workforce. LEAD is uniquely poised from its proud history as the "capabilities-based depot" to support the Echelons Above Brigade enablers and the Aim Point Force initiative. Our workforce's expertise supports many disciplines, including electrical, electronics, automotive, power generation, fabricators and engineering that will be required to support the breadth of variety in multi-domain operations.

LEAD is preparing to sustain new technologies under development and continuing to execute the enduring workload by laying the groundwork for transforming people, processes, equipment and facilities. LEAD continues to provide quality products to the customer, demonstrating an exceptional performance-to-promise rating and maintaining the Aerospace Standards 9100 and 9110, or AS9100 and AS9110, Quality Management Systems Certifications.

LEAD continuously executes complex production plans that meet high- and low-density requirements. LEAD reduced a PATRIOT battalion's reset time from over 200 days to under 150 days. LEAD overcomes obsolescence through additive manufacturing methods such as cold spray and 3D printing. The depot is gaining efficiencies by implementing metrology tools such as blue light scanning and laser alignments. LEAD is improving tracking and communications through wireless implementation and radio frequency identification, or RFID. LEAD is expanding its testing capability to flexible, next-generation test platforms and digital component tests. Additionally, the depot is expanding its competencies with an

anechoic chamber and is partnering with Army Research Laboratories to develop the ability to position lasers, optics and mirrors using power combiner and beam steering technology.

LEAD is committed to being the best steward of our resources. LEAD's Area Development Plan details the construction of 1.7 million square feet of production space, including upgraded utilities and modern energy efficiencies. The depot's modernization plan will increase throughput by building new facilities on a co-located production campus. LEAD's future production will be done in a secure, accommodating space with high ceilings and limited internal columns. The space is adaptable for any mission and integrates particle and humidity-controlled areas. This new space will include "Factory 4.0" networked and cyber-secured equipment and will be easier to monitor and more efficient, increasing reliability.

To support next-generation capabilities, we must modernize the sustainment warfighting function, including infrastructure, training, processes and skillsets.



LETTERKENNY ARMY DEPOT SOURCES OF WORKLOAD



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DEPOT SOURCE OF REPAIR:

- Phased Array Tracking Radar Intercept of Target, or PATRIOT, Missile System
- Mobile Kitchen Trailer
- Army-Navy Transportable Radar Surveillance, or AN/TPY-2, Radar
- Terminal High Altitude Area Defense, or THAAD, Fire Control & Communications
- Tactical Quiet Generators
- Route Clearance Vehicles
- Sentinel Radar
- Javelin

CENTER OF INDUSTRIAL & TECHNICAL EXCELLENCE:

- Air Defense & Tactical Missile Ground Support Equipment
- PATRIOT Missile Recertification
- Power Generation Equipment
- Route Clearance Vehicles
- Aviation Ground Support Equipment

PRIVATE/PUBLIC PARTNERSHIPS:

- PATRIOT Launcher & Ground Support Equipment
- PATRIOT Missile Recertification
- Apache Fire Control
- High Mobility Artillery Rocket System, or HIMARS
- Sentinel
- Javelin
- THAAD
- Guidance Enhanced Missile, or GEM-T

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LETTERKENNY ARMY DEPOT FUTURE SYSTEMS INTEGRATION OFFICE (FSIO)



U.S. ARMY



Creating value and opportunities while effectively marketing the depot to increase workload specifically toward air and missile defense programs.

CAPABILITIES:

Customer relationship system:

Gathers customer information and tracking leads

Project builder:

Monitors projects from first communication to implementation

Tours and visits:

Showcases the depot's products and services to strengthen partnerships and inform stakeholders

MARKETING INITIATIVES:

- Organizes and attends conferences nationally to promote the depot
- Acquires customer information to track and predict customer trends
- Obtains critical feedback to better understand our customer
- Researches and analyzes current industry changes throughout the market

PARTNERSHIP BENEFITS:

- Technology insertion
- Skillset sustainment
- Leverage lessons learned to assist in planning for emerging systems sustainment
- Skilled artisans
- Flexibility and options
- One-stop shop
- Competitive labor rates
- Facility infrastructure in place

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LETTERKENNY ARMY DEPOT INTERCEPTOR/MISSILE



The Phased Array Tracking Radar Intercept of Target, or PATRIOT, missile program specializes in both domestic and foreign military sales and public-private partnerships.

SKILLED ARTISANS:

- Program management
- Logistics
- Electronic equipment specialists
- Certified electronic technicians
- Certified missile processing trainers
- Trained explosive and logistics supply

OUR QUALITY ASSURANCE AND INSPECTION STANDARDS:

- Inspections conducted by quality assurance specialists (ammunition surveillance), or QASAS, and the Defense Contract Management Agency, or DCMA
- Multilevel customer quality engineer inspection points

FACILITIES:

- Lightner Missile Complex: 99,000+ ft²
- Complete PATRIOT storage, disassembly testing and recertification facility: 41,000+ ft²
- Explosive weight: 2,000+ lb
- Inert storage: 20,000+ ft²
- Classified storage: 3,000+ ft²
- Lightning warning and protection system
- Temperature and humidity-controlled environment
- Dedicated paint facility

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LETTERKENNY ARMY DEPOT LAUNCHER/TRAILER



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The Phased Array Tracking Radar Intercept of Target, or PATRIOT, launcher team specializes in electronic and mechanical principles, complex troubleshooting and intricate testing equipment. Our team can reset, recapitalize and new build launchers for the warfighter and our partners.

FACILITIES AND EQUIPMENT:

New Build:

- High bay garage space
- 10-ton crane lifting capacity
- Launcher mechanics build stands
- Floor-to-ceiling storage shuttle

Reset and Recap:

- High bay work space with a 20-ton crane
- Environmentally controlled repair area for subassemblies
- Electrostatic discharge-controlled area

CAPABILITIES:

- Depot/field repair on non-mission capable and damaged equipment
- Multilevel testing
- Secondary repair (subassemblies on end-item)

SUPPORT SHOPS:

- Engineering
- Machine fabrication
- Welding and soldering
- Material prep assets and small parts
- Actuator repair
- Chassis test and repair
- Circuit card test and repair
- Cable harness fabrication, test and repair
- PATRIOT launcher road and system test

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LETTERKENNY ARMY DEPOT RADAR AND SENSORS



Letterkenny Army Depot provides the full functionality of Phased Array Tracking Radar Intercept of Target, or PATRIOT, radars, ensuring the detection, identification and interception of ballistic and cruise missiles, unmanned aircraft systems and other threats in the field.

CAPABILITIES:

- Recapitalization
- Reset
- Depot/field repair on non-mission capable and damaged equipment
- Multilevel testing
- Secondary repair
- Radar antenna alignment

FACILITIES AND EQUIPMENT:

- Cabling test equipment
- Antenna performance test console
- Thermal/environmental test chamber
- High bay workspace with a 20-ton crane
- Environmentally controlled repair
- Electrostatic discharge controlled area
- Radar-leveling plate

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LETTERKENNY ARMY DEPOT ELECTRONIC COMPOSITE COMPONENT REPAIR (ECCR)/SHELTER



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Letterkenny Army Depot provides, repairs and rebuilds capabilities to trailers and protective shelters that support the weapon systems used by our warfighters and allies.

CAPABILITIES:

- Repair and rebuild to mitigate corrosion
- Hundreds of different weld procedures
- Ability to weld in position or via mechanical positioner

TESTING:

- Water
- Road
- Air
- Brake
- Electrical

LINES OF EFFORTS:

- Repair of shelter and semi-trailer panels
- Corrosion mitigation
- Repair, replacement, and rebuild of structural parts of shelters, semi-trailers and trailers
- Thermal spraying
- Depot-level repair

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LETTERKENNY ARMY DEPOT SYSTEMS TESTING



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Letterkenny Army Depot ensures the viability of all Phased Array Tracking Radar Intercept of Target, or PATRIOT, equipment through multiple weeks of testing prior to contract fulfillment and shipment. During this stage, the team verifies that everything is operational before sending the equipment back to the field.

FACILITIES:

- Multiacre integration test site
- Environmental test chamber
- Far-field test range
- Improved asphalt equipment storage

TESTING EQUIPMENT:

- General-purpose electronics test station, or GETS
- Cabling test equipment
- Thermal chamber
- Shaker tables
- Diagnostic test instrument

TESTING PROCESSES:

- Complete systems test
- Over-the-air testing
- State-of-the-art automated test consoles

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LETTERKENNY ARMY DEPOT CLOSE COMBAT MISSILE SYSTEM (CCMS)



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Letterkenny Army Depot provides a superior quality product and customer-focused support to the Close Combat Missile System, or CCMS, community.

OUR WORKFORCE:

The CCMS division at Letterkenny has a team of skilled electronic and mechanical artisans capable of remanufacturing and testing numerous components of missile systems for the U.S. Army, U.S. Marine Corps, U.S. Air Force and foreign military customers. This divisional team consists of program management, engineering, quality and preservation. Our travel teams provide on-location missile system repair and maintenance to ensure extra safety.

FACILITIES:

- Hydraulic testing
- Electronic testing
- Secure storage

SYSTEM COMPETENCIES:

- High Mobility Artillery Rocket System, or HIMARS
- Multiple Launch Rocket System, or MLRS
- Aviation Ground Power Unit, or AGPU
- Avenger line replaceable units
- Tube-launched, Optically-tracked, Wireless-guided, or TOW, and Bradley systems
- Javelin system
- Sentinel radar
- Wind-corrected munitions dispenser field repair
- Hellfire launcher and launcher system component level, training missile and testing equipment field support

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LETTERKENNY ARMY DEPOT

A/C SHOP



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Letterkenny Army Depot provides climate control troubleshooting, recap and reset on multiple assets and components for the Air and Missile Defense community.

CAPABILITIES:

- Conducts climate control recap and reset on different components – including the motors and the motorized actuator – of the Phased Array Tracking Radar Intercept of Target, or PATRIOT, system
- Resets climate control on the Biological Integration Detection System
- Assists the Army-Navy Transportable Radar Surveillance, or AN/TPY-2, team in recovering refrigerant from the electronics equipment unit, or EEU
- Resets the EEU of the Terminal High Altitude Area Defense, or THAAD, shelter
- Provide recap/reset on the environmental control unit, or ECU, and the prime power unit, or PPU, for the Avenger
- Resets the hoist motors and motor brakes for the Multiple Launch Rocket System, or MLRS
- Repairs the ECUs for the Tube-launched, Optically-tracked, Wireless-guided, or TOW, system

ARTISAN SKILLS:

- Plumbing
- Welding
- Soldering brazing
- Electronic mechanics
- Fabricators

CERTIFICATES:

- Environmental Protection Agency-approved Sections 608 and 609 Training Certifications, or EPA 608/609
- Soldered Electrical and Electronic Assemblies Certification through the Institute of Printed Circuits Joint-industry Standard 001 Revision H, or IPC J-STD-001H

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LETTERKENNY ARMY DEPOT POWER GENERATION



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The Power Generation team supports our troops with “the power behind the fight.”

CAPABILITIES:

- Recapitalization
- Service life extension program
- Reset and repair
- Preventative maintenance
- Modification of over 150 different variations and sizes of power generation equipment

AWARDS:

- Bronze and Silver Shingo Awards
- Depot Source of Repair, or DSOR, for Power Generation Equipment
- Center of Industrial and Technical Excellence, or CITE, for Mobile Electric Power by the Secretary of the Army

PRODUCTION:

- Critical hospital power
- Aviation
- Life support
- Multiple weapon and missile systems
- Electrical Power Plant, or EPP
- Power units
- Aviation Ground Power Unit, or AGPU
- Standard aircraft towing systems
- Auxiliary power units
- Generic air nitrogen generators
- Diesel engine rebuild or overhaul

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LETTERKENNY ARMY DEPOT CHASSIS/SUBASSEMBLY



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TESTING PROCESSES:

- Microminiature soldering
- Cabling test equipment
- General-purpose electronic test station, or GETS, consoles
- High voltage power supplies testing
- Power supplies rebuild and test
- Chassis rebuild and testing
- Climate chamber testing
- Bench testing
- Fiber optics testing

CERTIFICATIONS:

- Soldered Electrical and Electronic Assemblies Certification through the Institute of Printed Circuits Joint-industry Standard 001 Revision H, or IPC J-STD-001H
- Rework, Modification and Repair of Electronic Assemblies Certification through the Institute of Printed Circuits Standard 7711/7721 Revision C, or IPC 7711/7721C

FACILITIES AND EQUIPMENT:

- Environmentally controlled environment
- Electrostatic discharge workstations
- Clean ergonomic work areas
- Advanced state-of-the-art test equipment
- Work area free of foreign object debris, or FOD

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LETTERKENNY ARMY DEPOT

CABLE AND HARNESS



FACILITIES AND EQUIPMENT:

- Cabling test equipment
- Hipot testers
- 3D printer for potting molds
- Wire marking machine
- Braiding machines
- Thermal shrink and laser etch-marking manufacturing
- Reel-to-reel spooling for fiber optic and copper cables
- Electrostatic discharge-protected workbenches
- State-of-the-art soldering stations
- Environmental chamber: shock testing up to 210° C
- 50,000 ft² production area

CERTIFICATIONS:

- Soldered Electrical and Electronic Assemblies Certification through the Institute of Printed Circuits Joint-industry Standard 001 Revision H, or IPC J-STD-001H
- Requirements and Acceptance for Cable and Wire Harness Assemblies Certification through the Institute of Printed Circuits/Wiring Harness Manufacturer's Association Acceptability-620 Standard, or IPC/WHMA-A-620

PROCESSES:

- Full-service fiber optic cabling, splicing, cable harness repair, fabrication and reverse engineering
- Assembly and attachment of connectors, pins and hardware
- Transmission efficiency testing
- Harness layout process
- Overmolding on various cables
- Final mechanical installation, testing and inspection

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LETTERKENNY ARMY DEPOT CIRCUIT CARD REPAIR



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Letterkenny Army Depot hosts a multifunctional shop that performs tests, diagnostics, rebuild and repair procedures of circuit cards for the Air and Missile Defense community.

CAPABILITIES:

- Highly skilled workforce tests, modifies and repairs a wide variety of circuit cards and assemblies for the Phased Array Tracking Radar Intercept of Target, or PATRIOT, system
- Circuit boards with up to eight layers can be processed, repaired or reconstructed
- General-purpose electronic test station, or GETS, consoles provide state-of-the-art technology in diagnostic testing of circuit cards
- Microwave device testing performed on PATRIOT radars

CURRENT WORKLOAD:

- Circuit card support for PATRIOT
- PATRIOT radar antenna element testing and repair
- Avenger coolant reservoir recertification
- Circuit card testing on GETS-1000
- Joint-industry standard soldering and microminiature soldering
- Special projects and unique manufacturing

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LETTERKENNY ARMY DEPOT M-SHORAD COMPETENCIES



Letterkenny Army Depot provides mobile, robust, 360° protection capability to defend critical assets within fixed and semi-fixed locations against both fixed wing and rotary wing, manned or unmanned aerial systems.

OVERHAUL/MODIFICATION:

- System prime mover and system launcher
- Forward-looking infrared receiver
- Laser range finder
- Environmental control unit, or ECU, and power prime unit, or PPU
- Circuit card
- Optical display unit
- Electronic control assemblies

FIELD SERVICES:

- Field failure review, analysis and resolution
- Quality inspections and verifications
- Operational readiness support
- Live fire exercise support
- Sustainment integrations
- Depot Maintenance Technical Assistance Program

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LETTERKENNY ARMY DEPOT INDIRECT FIRE PROTECTION CAPABILITY (IFPC)



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Letterkenny Army Depot, or LEAD, provides a superior quality product and customer-focused support to the Indirect Fire Protection Capability community.

The High Mobility Artillery Rocket System, or HIMARS, division at Letterkenny has a team brimming with mechanical expertise, program management, secondary support and technical support. Our assembly line processes drive efficiency as LEAD artisans specialize in different areas of expertise. Our Fielding Response Team helps demonstrate that each HIMARS asset is fully functional before the gaining unit signs off for the asset.

FACILITIES:

- Dedicated testing area
- Secure storage facility
- Fabrication annex
- Test track
- Transportation and storage facility

COMPONENTS:

- Increased crew protection cab
- Launcher
- Launcher re-loader
- Hydraulic reservoir
- Boom extension gearbox
- Hoist brake assembly
- Chemical air filtration unit

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LETTERKENNY ARMY DEPOT TRUCKS AND GROUND MOTOR VEHICLES



Letterkenny Army Depot provides superior quality products and customer-focused support to our stakeholders' heavy and light wheeled fleets.

FABRICATION SERVICES:

- Computer numeric control, or CNC, machining
- Electrostatic discharge
- Cable and wiring harness fabrication
- Sheet metal fabrication
- Prototype fabrication
- MIG, TIG and STICK welding
- Welded assemblies
- Waterjet and laser cutting

ENGINEERING SERVICES:

- Obsolescence mitigation
- Develop system/subsystem repair and sustainment
- Technical data package review
- Design, develop, fabricate and prototype solutions
- 3D printing

TECHNICAL SERVICES:

- Overhaul, repair and rebuild
- Test equipment
- Instrumentation
- Line replaceable units
- Circuit card assemblies
- Components and subsystems
- Unique identification, or UID, implementation
- Modification work order, or MWO, application
- Body and paint
- Corrosion mitigation

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LETTERKENNY ARMY DEPOT DEPOT MAINTENANCE SUPPORT TEAM



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Flyaway and re-pin kits are deployable equipment used to perform missile maintenance in a field environment. A team of missile technicians is required to support the field operations and ensure each missile is safe for transport.

These kits are designed and packaged for rapid deployment to field locations as required to facilitate corrective action on missile rounds when it is not feasible to return them to depot maintenance facilities.

FORWARD-SUPPORT TRAVEL TEAMS:

Teams of highly skilled technicians travel worldwide to the end user's location to perform Systems Integration and Checkout, or SICO, operations and install modifications and upgrades to air defense systems.

PATRIOT MISSILE FLYAWAY CAPABILITIES:

- Initial test
- Final all-up round test
- Missile assembly and disassembly
- Canister repair and refurbishment
- Leak test
- Canning
- Package for shipment of major subassemblies
- Missile re-pin
- Propulsion arming and firing unit, or PAFU, o-ring change out

PATRIOT MISSILE RE-PIN KIT CAPABILITIES:

- Initial test
- Re-pin of shifted missile
- Forward cover replacement
- Replacement of damaged shoes
- Replacement of torque tube handler
- Ensuring canister humidity meets the proper threshold
- Canister pressure leak test
- Final test

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LETTERKENNY ARMY DEPOT THAAD AND AN/TPY-2



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Letterkenny Army Depot provides advanced capabilities to the Terminal High Altitude Area Defense, or THAAD, and Army-Navy Transportable Radar Surveillance, or AN/TPY-2, programs by generating superior products and delivering an exceptional customer experience.

DEDICATED PERSONNEL:

Program Management:

- Project manager
- Program analyst
- Scheduler
- Commodity manager

System-Level Technicians:

- Technicians execute disassembly to acceptance test procedure
- Support for Systems Integration and Checkout, or SICO, operations
- Electrostatic discharge controlled area
- Eddy current

VARIOUS LEVELS OF EFFORT:

- Inspect and repair
- Modernization
- Recap
- Depot-level repair
- Chassis and subassemblies

TESTING CAPABILITIES:

- Cabling test equipment
- Electromagnetic interference, or EMI, testing
- Road tests
- Rain tests
- Air tightness tests
- Fiber optic
- Subassembly
- Acceptance testing

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LETTERKENNY ARMY DEPOT SENTINEL



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Provides the warfighter with persistent air surveillance and fire control quality data through enhanced detection, classification, identification and reporting capabilities against unmanned aircraft systems, cruise missiles and Rocket, Artillery and Mortar, or RAM, rounds.

ENGINEERING SERVICES:

- Obsolescence mitigation
- Develop system/subsystem repair and sustainment capability
- Technical data package review (drawing, schematics, etc.)
- Design, develop and fabricate prototype solutions
- 3D printing

FIELD SERVICES:

- Field failure review, analysis and resolution
- Quality inspections and verifications
- Operational readiness support
- Live fire exercise support
- Sustainment integrations
- System reset and overhaul

TECHNICAL SERVICES:

- Test equipment
- Instrumentation
- Line replaceable units
- Cable and wiring harness fabrication
- Components/subsystem repair and rebuild
- Unique identification, or UID, implementation
- Modification work order, or MWO, application
- Body and paint
- Corrosion mitigation

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LETTERKENNY ARMY DEPOT FORCE PROVIDER



Force Provider is a modular base camp and life support system designed to provide quality living conditions to deployed warfighters.

VISION:

Build, drive, inspire and innovate the future war machine.

STANDARD:

Quality in accordance with International Organization for Standardization 9001:2015, or ISO 9001:2015

FACILITIES:

- Sizable force provider packing area
- Environmental control unit, or ECU, testing area
- Electrical load testing area

COMPETENCIES:

- Pack new build, reset and interservice camps
- Base camps include 75- and 150-personnel camps
- Pack, test, and repair showers, latrines, laundries, wastewater management systems and kitchens
- Upgrade generators with microgrid technology for energy efficiency
- Pack camp add-on units to include Morale, Welfare and Recreation, chapels, administrative complexes, wastewater management and electronic kitchen facilities

ADDITIONAL COMPETENCIES:

- Build Army Rigid Wall Camps, Navy Air Beam Berthing Facilities and Small Command Operation Center Command Post Battalion Aid Stations
- Reset expeditionary systems, including:
 - Shower water recycling systems
 - Refrigerated containers
- Build add-on kits, including:
 - Cold weather
 - Quality of life
 - Environmental protection system

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LETTERKENNY ARMY DEPOT FORCE SUSTAINMENT



Letterkenny Army Depot's Force Sustainment Systems Branch provides superior quality and customer support, ensuring the warfighter has fully operational equipment to sustain good health, morale and welfare both on and off the field.

OUR WORKFORCE:

The Force Sustainment Systems Branch at Letterkenny Army Depot offers years of experience in the maintenance of field feeding, health and welfare, and field sanitation equipment. Sound program management, quality equipment sustainment, reliable technical support and highly responsive field support are at the forefront of what we provide. Our team's expertise comes from years of repairing numerous pieces of equipment that sustain a healthful fighting force in the field environment. We eagerly look forward to any new challenge driven by this nation's ever-growing technology that improves the warfighters' overall well-being.

SUSTAINMENT COMPETENCIES:

- Containerized kitchen
- Containerized kitchen trailer
- Mobile kitchen trailer
- Expeditionary field kitchen
- Modern burner unit
- Environmental control unit
- Industrial tent heaters

ADDITIONAL COMPETENCIES:

- Containerized batch laundry
- Multitemperature refrigeration container system
- Mobile integrated remains collection system
- 20 ft. latrines
- Self-service laundry
- Shower systems

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LETTERKENNY ARMY DEPOT COLD SPRAY



U.S. ARMY



BEFORE

AFTER

Cold spray is an additive manufacturing technology that utilizes powdered material and high-pressure gas to deposit and coat corroded surfaces at supersonic speed.

CAPABILITIES:

Mobility:

Letterkenny Army Depot, or LEAD, has a portable cold spray unit – the Dragonfly – mission-capable for forward-support operations.

High Mobility Artillery Rocket System (HIMARS):

- Cab
- Launcher rail

Phased Array Tracking Radar Intercept of Target (PATRIOT) System:

- Radar shelters
- Antenna mast group, or AMG, parts
- Trailer

Terminal High Altitude Area Defense (THAAD) Launcher:

- Truck parts
- Frame rails
- Missile round pallet - transportable, or MRP-T

CERTIFICATIONS:

The cold spray team has received operating training and UIPI credentials at the Penn State Applied Research Laboratory, authorizing them to conduct and approve in-house certifications.

PARTNERSHIPS:

Penn State Applied Research Laboratory:

Lab personnel utilize a helium recovery booth capable of recovering 80% of expended helium gas. Through a strategic partnership, the team at LEAD sends in assets for cold spray applications in which the use of helium is necessary.

Army Research Laboratory:

The Army Research Laboratory, or ARL, is working alongside the original equipment manufacturer to develop another mobile cold spray unit for LEAD to utilize for future operations.

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LETTERKENNY ARMY DEPOT BLUE LIGHT SCANNING



The blue light scanner is a portable metrology unit that can identify an asset's structural and surface deformations via 3D scans.

QUALITY INSPECTIONS:

Letterkenny Army Depot, or LEAD, utilizes blue light scanning to create 3D models that help perform quality inspections by revealing surface abnormalities on various assets within several hours. Engineers and artisans refer to these deformations to identify any needs or replacements required to repair damaged assets.

Scanned assets include:

Extended Range Cannon Artillery (ERCA):

Entire hull can be scanned within six-and-a-half to seven hours

Buffalo:

Scanned within eight to nine hours

Phased Array Tracking Radar Intercept of Target (PATRIOT) System:

Scans vary based on system component or asset

High Mobility Artillery Rocket System (HIMARS):

Entire cab can be scanned within two to three hours

REVERSE ENGINEERING:

LEAD engineers use blue light scanning to draft CAD models, drawings and blueprints based on digital twin model captures created by the scanner. Artisans refer to these models to create drawings and blueprints for existing parts, and apply technical data to manufacture replacement components for damaged assets.

Reverse engineering does not only reduce time needed to repair each asset, but it also reduces the expenses needed to procure replacement parts.

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LETTERKENNY ARMY DEPOT WELDING MATERIALS LAB



Our welding materials lab consists of multiple American Welding Society-certified weld inspectors and non-destructive testing, or NDT, level-3 examiners capable of qualifying procedures under commercial and military standards, including 3040 (steel armor) and 3057 (aluminum armor).

TESTING CAPABILITIES:

Destructive:

- Bending
- Tensile
- Macro-etch
- Charpy

Non-destructive:

- Visual inspection
- Liquid penetrant
- Magnetic particle
- Eddy current

MATERIAL COMPOSITION IDENTIFICATION FOR REVERSE ENGINEERING:

Laser-induced breakdown spectroscopy:

Capable of determining the elemental composition of steel and stainless steel alloys by detecting carbon content

X-ray fluorescence:

Testing capabilities on any alloy

Hardness testing:

Different scales, including: Brinell, Rockwell-B and Rockwell-C

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LETTERKENNY ARMY DEPOT LASER ABLATION



Laser ablation is a subtractive manufacturing technology that utilizes pulsed laser energy to rapidly remove paint and corrosion from solid surfaces by heating and evaporating unwanted materials.

NON-CONTACT PROCESSES AND CORROSION REMOVAL:

Media blasting and sanding operations typically deform thinner substrates throughout their respective processes. However, laser coating removal eliminates corroded materials, contaminants and paint without further damaging targeted areas on steel and aluminum substrates.

ADVANTAGES:

Laser ablation offers an array of other benefits, including:

- Cost efficiency
- Reduction in time required to remove unwanted materials
- Prolonged life of equipment and component
- Improved safety for the artisans handling the equipment

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LETTERKENNY ARMY DEPOT DIRECTORATE OF STRATEGIC MANAGEMENT (DSM)



U.S. ARMY



FUTURE SYSTEMS INTEGRATION OFFICE:

- Attracts and engages stakeholders belonging to other military entities – both foreign and domestic – and private industry
- Organizes and provides tours of the installation to showcase the depot's capabilities and efforts
- Attends conferences around the nation to meet and network with stakeholders

SKILLS DEVELOPMENT OFFICE:

- Hosts a High Velocity Training Center that is the model for the rest of the Organic Industrial Base
- Focuses on developing an agile and integrated workforce that is augmented with artificial intelligence and other business process tools to ensure efficiency and product/process quality
- Manages a diverse internship program
- Offers clear, concise career paths for employees supplemented by a career coaching program
- Partners with local schools, universities, and professional organizations to ensure quality training opportunities for depot employees and the local community

PRODUCTION ENGINEERING DIVISION:

- Reviews customer requirements and creates conditions for a successful manufacturing plan
- Responsible for production layouts and mission space planning
- Provides solutions to increase throughput or overcome production challenges
- Implementation of advanced manufacturing technologies (3D printing, cold spray, etc.)
- Provides engineering solutions to meet customer requirements

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LETTERKENNY ARMY DEPOT DIRECTORATE OF SUPPLY AND TRANSPORTATION (DS&T)



U.S. ARMY



Provides Supply Depot Operations, such as receipt, issue, surveillance and storage of Depot Maintenance Activity and Supply Management Activity stock, including Care of Supplies in Storage, or COSIS, Preservation Services and Demilitarization Preparation using the Organic Industrial Base's only Army-owned Supply, Storage and Distribution operations.

MODERNIZATION:

Central receiving: New facility built for central receiving

Radio frequency identification (RFID): Property book, inventory and supply and end-item tracking

Data management: Real-time display for the entire directorate

Building talent: Collaborating with local academics to build logistical excellence of the future

CAPABILITIES:

- Provides a results-oriented transportation strategy
- East Coast site for demilitarization and reutilization operations
- Ships all classes of freight
- Capable of truck, rail, vessel transport prep and helipad load ops of major end, secondary and component assets
- Data-focused inventory solutions utilizing integrated data structures
- Accountable accuracy of 98% for wholesale and retail inventory accounts
- Conducts cycled COSIS on four programs
- Performs inspection, tests and labeling on all radioactive assets received and shipped

TECHNOLOGIES:

HIVE: Real-time data reporting built at Letterkenny Army Depot for shipping and receiving

GEO TAB: Vehicle monitoring and tracking system

DocuWare: Electronic document repository and library

Kiosk: Property Book Office personnel utilize kiosks in the tool crib areas, speeding up certain processes

Integrated Power BI: Reporting for all major supply functions (help desk support, inventory adjustment reports, workload processing, etc.)

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LETTERKENNY ARMY DEPOT DIRECTORATE OF PRODUCT ASSURANCE (DPA)



U.S. ARMY



We aim to execute a robust Business Management System compliant with the Aerospace Standards 9100 and 9110, or AS9100 and AS9110, Quality Management Systems, or QMS. This ensures that Letterkenny Army Depot, or LEAD, produces a high-quality product while maintaining a high level of customer satisfaction and continual improvement of LEAD's internal processes.

CAPABILITIES:

- Visual weld inspection
- Certified magnetic particle, liquid penetrant and eddy current testing
- Paint inspection and coating quality assessment
- Water submersion testing

METROLOGY LAB:

- Coordinate measuring machines
- Laser tracking equipment
- Hardness testing
- Optical comparator
- Surface analyzer

CERTIFICATIONS, QUALIFICATIONS AND TRAINING:

- AS9100 and AS9110 QMS Certifications
- American Welding Society Certified Welding Inspectors
- National Aerospace Standard 410, or NAS 410, Certified Non-Destructive Testing Technicians
- American Society of Non-Destructive Testing Certified Technicians
- Institute of Printed Circuits, or IPC, Certified Soldering Instructors
- AS9100/AS9110 Certified Auditors

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LETTERKENNY ARMY DEPOT

DIRECTORATE OF INFORMATION MANAGEMENT (DOIM)



U.S. ARMY



The Directorate of Information Management's mission is to direct, manage and integrate all aspects of Information Management and Information Technology, or IM/IT, to support the installation mission while enabling business processes through innovative and economical IT solutions.

SYSTEMS DIVISION:

- Regionalized server support
- Continuity of Operations support
- SIPRNET support
- Domain administration
- Server administration
- Mobile phone support
- Network management
- Telephone system management
- Frequency management
- Telecommunications center management
- Firewall management
- Wireless voice and data communication
- Television broadcast
- Individual user and shared data backup and archiving

INTEGRATION DIVISION:

- Cyber security and accreditation
- Anti-virus support and system scanning
- Video conferencing
- Configuration management and policy development
- Software management and license control
- Logistics and financial applications system management
- Hardware life cycle management

APPLICATIONS DIVISION:

- Worldwide standard depot system support
- Data management - database administration
- Application programming
- Legacy system replacement
- SharePoint administration
- Business process automation
- Desktop system support
- Unicenter help desk management
- Army 365 support
- Power Platform support

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LETTERKENNY ARMY DEPOT SAFETY



U.S. ARMY



The Letterkenny Safety Department works to create a culture of safe operations that uses both national and international standards to develop programs, training and processes that result in a continuously evolving world-class organization.

The department provides outstanding safety and health programs that protect our Soldiers, employees, contractors and visitors through a practical and comprehensive safety and occupational health management system.

SAFETY ENGINEERS:

Examine and audit new and existing work conditions, equipment, processes and systems to determine points of potential hazard and opportunities for safety improvements.

EXPLOSIVE SAFETY MANAGEMENT:

Provides the policy and framework for addressing all required elements of the explosive safety programs as required by the U.S. Army and the Department of Defense.

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LETTERKENNY ARMY DEPOT PRODUCTION ENGINEERING



U.S. ARMY



Our mission is to provide engineering services to Letterkenny Army Depot's maintenance and manufacturing missions throughout all production phases.

PRODUCTS BRANCH:

- Mechanical, electrical and electronics engineering support
- Support to end-item product line shops
- Direct support to production management teams

PROCESSES BRANCH:

- Mechanical, chemical, electronics and materials/weld engineering support
- Support to fabrication shops and material finishing operations
- CAD, technical document preparation and control

INDUSTRIAL EQUIPMENT MAINTENANCE BRANCH:

- Performs preventative and corrective maintenance of production equipment
- Load test of lifting devices
- Relocation and installation of industrial equipment

TEST EQUIPMENT MAINTENANCE BRANCH:

- Performs preventative and corrective maintenance of electronic test equipment
- Calibration of electronic measurement equipment
- Automated Test Equipment modernization

EQUIPMENT BRANCH:

- Develops economic analyses and acquisition packages for production equipment
- Manages Capital Investment and Value Engineering programs
- Develops and manages service contracts for the Directorate of Strategic Management and the Directorate of Industrial Operations

EMERGING PRODUCTS BRANCH:

- Supports future systems' logistics development and planning
- Prepares the depot for future systems
- Engineering support to depot modernization process

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LETTERKENNY ARMY DEPOT MANUFACTURING AND FABRICATION DIVISION



U.S. ARMY



MACHINE FABRICATION:

- "Freeman" gantry mill
- Computer Numerical Control, or CNC, – 6,000 watts laser
- CNC 20-ton punch
- CNC 50,000 and 90,000 psi waterjets
- CNC press brakes
- CNC tubing bender
- Tubing roller
- 5- and 9-axis milling machines
- 100,000 watts spot welder
- Beading machine
- Rivet press
- Induction heating table

UPHOLSTERY SHOP:

- Automated cutting system
- Fabric cutters
- Vinyl welding machine
- Hand welder
- Grommet machine
- Band saw
- Industrial sewing machines

FORWARD MOBILIZATION AND SUSTAINMENT:

UIDWorks-LEAD has a desktop, reel-to-reel cutting laser for fabricating item unique identification, or IUID, data templates onto polycrylic marking tape. It can produce thousands of IUID labels daily. UIDWorks-LEAD also has the capability to engrave metallic and non-metallic materials with a laser engraver.

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LETTERKENNY ARMY DEPOT SKILLS DEVELOPMENT OFFICE



Our mission is to use traditional and cutting-edge technologies to develop an agile workforce armed with the knowledge, skills and abilities to support current and future systems and capabilities.

Our goal is to be a dynamic and forward-thinking center of excellence for skills development within the depot. We aspire to cultivate a highly skilled and adaptable workforce prepared to meet our mission's evolving challenges. Through innovative training solutions, strategic partnerships and a commitment to excellence, we aim to enable our employees to reach their fullest potential.

WHAT WE DO:

- Focuses on developing an agile and integrated workforce that is augmented with artificial intelligence and business tools to ensure efficiency and quality
- Organizes new employee orientation and other workshops, training and events
- Hosts a High Velocity Training Center that is the cornerstone for wage grade workforce training
- Manages an internship program for college students
- Offers clear and concise career path opportunities supplemented by a career coaching program
- Manages a mentorship program that creates a network of support for employees
- Partners with schools, universities and professional organizations to ensure quality training opportunities

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