Field Technician Training Plan

Related Military Occupations:

Air Force	Marine Corps	Navy	
2A6X1	1141	AD	EM
3E0X2	1142	AE	GS
	2862	AT	UT
Any MOS with 60/61/62/63/64 prefix		AS	

Overview: The purpose of the Life Cycle Power Individual Skillbridge Internship is to build a pipeline of trained and qualified individuals to meet the needs of the business. The training will be a collaborative effort between LCP Executive Leaders, Human Resources, HSE (safety), IT, and areas of the Operations departments including Maintenance & Asset Management, Utility, Grid, & Frac Operations and Service Engineering.

Job Title – SkillBridge - Field Technician

Job Description –
You will train to understand and perform the skillset of operating and monitoring of gas turbine generator sets in the safest and most efficent manner possible. A gas turbine Field Technician is responsible for the installation and commissioning of turbine systems, assembling turbine componets, connecting electrical and mechanical systems and ensuring proper functionality. They provide routine maintenance, repair, and troubleshooting of gas turbine engines and related equipment with proper documentation and reporting at customer sites, requiring travel and collaboration with teams.

Key Responsibilities and Tasks:

- **Safety:** When working with gas turbine engines and equipment you must learn and adhere to all safety protocals and guidelines to ensure a safe work environment conducting risk assessments and the use of personal protective equipment (PPE).
- **Installation and Maintenance:** Learn to set up, maintain, and ensure the proper functioning of gas turbine engines and related systems.
- **Preventive Maintenance:** Performing routine inspections and maintenance to prevent breakdowns and ensure optimal performance
- **Troubleshooting & Repair:** Learn to identify, diagnose, and resolve issues with gas turbine engines and components.
- **Component Replacement:** Replacing worn or damaged parts, and other components while minimizing downtime.
- **Inspection and Testing:** Conducting thorough inspections and tests to assess the condition of gas turbine engines and components.
- **Documentation and Reporting:** Maintaining accurate records of maintenance activities, repairs, and inspections.
- **Collaboration and Communication:** Train and work with other technicians, engineers, and customers to ensure smooth operations and efficient problem-solving.

Requirements:

- Must be a current participant of the Department of Defense SkillBridge Program.
- Valid driver's license.
- Willingness to travel within the assigned geographic area.
- Mechanical aptitude and troubleshooting skills.
- Physical stamina and ability to work in physically demanding environments.

Preffered Qualifications and Key Skills (not required):

- Strong technical kowledge of turbines and related systems.
- Proficiency in reading technical diagrams, manuels and schematics.
- Electrical and elctronics knowledge.

- Fundamental knowledge of equipment controls and logic.
- Basic working knowledge of Microsoft office (Word, Excel, Teams, Outlook)
- Exceptional communication skills.

Length of Training – 12 weeks total of on the job training as a Field Technician
(40 hour work week/1 hour lunch Monday - Friday)

Week 1 - Orientation & Onboarding
Location: LCP Corporate Office: Jersey Village, TX
Both classroom instruction and online training are provided by VP of Operations, Office Management including HR, HSE, and IT departments. Nic Wright, Casey Smith, Nancy White, Andy Medina, Derek Golden

Training Objective 1: Introduction and understanding of what Life Cycle Power is, meet and greet corporate executives, employees and gain knowledge of policies and training requirements. Interns will fully understand their role in the company, become familiar with their responsibilities as well as expectations of their performance.

*One-hour lunch and breaks provided daily.

Day 1: 0800-1700 Welcome and Orientation
· Introduction to company culture and values (Nic)
· Meet the team and key stakeholders (Leadership intros)
· Tour of the office and facilities (Casey)
· Overview of company policies and procedures (Nancy)
· Uniforms requirements (Andy)

Day 2: 0800-1700 IT Requirements
· Introduction to IT Infrastructure (Derek)
· Overview of the company's IT systems and processes
· Introduction to key IT staff and their roles
Technical Support and Resources
· How to request IT support
· Available resources and tools for troubleshooting
· FAQs and common issues
Interactive Q&A Session
Led by IT STAFF
· Addressing any questions or concerns
· Sharing tips and insights for success

Day 3: 0800-1700 SAFELAND Training
Virtual Course (will receive certification)

Day 4: 0800-1700 H2S Training
Virtual Course (will receive certification)

Day 5: 0800-1700 Safety Introduction (Andy)

Week 1 Training Outcomes: Completion and certification in both SAFELAND and H2S Training

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Week 2 – Health, Safety & Environment (HSE) Training
Location: Madisonville, TX (Maintenance Yard)
Classroom, online training and field/site visit and inspection shadowing provided by HSE Senior Officer, Justin Wakeman with the assistance of additional qualified team members.

Training Objective 2: Interns will learn and understand the importance of managing and controlling workplace hazards, environmental risks and employee well-being. Introduction to multiple websites and applications used in the oil and gas industry to document customer and industry specific OSHA training. Interns will familiarize themselves with hazard identification and perform on-site and equipment safety inspections.

Day 1
0800-0930 Introduction to Bistrainer and SafeTapp applications.
0930-1130 Forklift and manlift online training (Bistrainer / SafeTapp)
1130-1230 Lunch
1230-1330 Forklift and manlift equipment inspections. (prerequisite for licensing)
1330-1630 Forklift and arial manlift training and licensing.
1630-1700 Arc Flash and Arc Blast Awareness and Safety (online)

Day 2
0800-0830 HAZCOM Training (Online)
0830-0900 Hazardous Substance Spill Discovery and Notification (Online)
0900-1030 Arc Flash NFPA70E training (Online)
1030-1100 Fire Extinguisher Training (Online)
1100-1130 Fall Protection Training (Online)
1130-1230 Lunch
1230-1430 HSE Policies and Procedures

1430-1700 IS Networld, Veriforce, and AVETTA software training.
Day 3
0800-0930 Back Safety and proper lifting (Online)
0930-1030 Lock Out Tag Out (Online)
1030-1130 Blood borne pathogens (Online)
1130-1230 Lunch
1230-1400 Information Technology (IT) Safety Training (Online)
1400-1530 Sexual harassment Prevention (Online)
1530-1700 Defensive Driving (Online)
Day 4
0800-1100 HSE ride along. Frac site visit and site safety inspection.
1100-1200 Lunch.
1200-1700 HSE ride along. Frac site visit and hazard identification.
Day 5
0800-1100 HSE ride along. Microgrid site visit and site safety inspection.
1100-1200 Lunch.
1200-1700 HSE ride along. Microgrid hazard identification.

Week 2 Training Outcome: Intern will receive an Operator's License for Forklift and Arial Manlifts. Certificates of Completion are provided through JJ Keller for all completed OSHA required online training courses.

Week 3 –Maintenance & Asset Management
Location: Madisonville, TX (Maintenance Yard)
Classroom and hands-on instructions provided by Director of Operations Brett Hrynuik and Asset & Procurement Manager Nate Talboys with the assistance of additional qualified team members.

Training Objective 3: Intern will be trained and demonstrate knowledge of the LCP Maintenance and Asset Management department. Comprehension of this department will be an asset in the field in learning equipment parts and understanding policies and procedures of assets and maintenance prior to entering the operations field sites.

*One-hour lunch and breaks provided daily.

Asset Management Daily Schedule
0700-1000 Review parts requests sent in from areas of the country needing items not in Inventory to be purchased and send request to vendors for quotation. If items are in stock, verify in CMMS and physical inventory.
1000-1130 Receive ordered parts, confirm shipped items against purchase order request and enter it into inventory (Limble) or prepare to ship if requested to other parts of the country.
1130-1400-Prepare shipping labels for items, create workorder under asset parts will be installed if that is the situation, or transfer the part to other location for spare.
1400-1600-Work with 3rd party equipment suppliers to ensure equipment is up to date on service and repairs. Also plan any swapping of equipment for better utilization based on pricing and conformance.

Maintenance Management Daily Schedule
0700-0900-Review upcoming planned shutdowns to estimate equipment hours to verify what maintenance is due at shutdown.
0900-1000- Plan maintenance and build work scope to include labor and parts (Qty, part #, location of item) so that personnel performing maintenance are aware.
1000- 1200- Create work order in Limble (CMMS) to include parts and work description for tracking of parts cost, any 3rd party support of shipping or labor.
1200- 1300- Review open work orders and follow up with appropriate parties to close them in a timely manner.
1300-1500-Provide support for others with questions or issues related to troubleshooting, or operation of equipment in the proper manner.
1500- 1600- Work with OEM of turbine packages for upgrades or known issues to implement.

Week 4-6 –Utility Operations
Location: Houston, TX
Classroom and hands-on instructions and on-site visits provided by LCP's Project Manager of Utility Operations Andrew Wasalynka and his team of LCP's qualified Field Service Techs, Ryan Travers, Mark Brewer and Casey Dean with the assistance of Service Engineering Supervisor, Alex Bissland along with additional Field Service Engineers, Caleb Shultz and Steven Salisbury.

Week 4
Training Objective 4: The interns will begin to form an understanding of the infrastructure and the different equipment onsite. They will gain a solid foundation of the safe work practices and procedures in place. They will become familiar with the start / stop process of various types of equipment.

0700-1600 *One-hour lunch and breaks provided.

Week #4 (continued)
Day 1: Substation safety and infrastructure familiarization.
Day 2: Blackstart familiarization. Inspection. Starting / stopping.
Day 3: Various Package familiarization. Learning equipment sections. Control room, generator, turbine trailer, auxiliary equipment.
Day 4: Work with the service engineering team on learning how to conduct a borescope inspection.
Day 5: Demonstration and site visits to perform learned procedures with utility operations team members.

Week #5
Training Objective 5: The intern will learn a more in-depth understanding of the equipment. They will become familiar with the starting and stopping process of the turbine packages. They will gain knowledge of seeing the different components of the unit in operation. They will also gain exposure to the alignment procedure and the critical function it serves.

Day 1: Startup / Shutdown various packages. FT8, Gen7, Gen8, and the SMT-60 versions.
Day 2: Operating, running and monitoring a turbine package.
Day 3: SMT-60 Alignment process and procedure.
Day 4: Various maintenance activities. Changing a filter or device.)
Day 5: Demonstration and site visits to perform learned procedures with utility operations team members.

Week #6
Training Objective 6: Further understanding of the equipment in more detail. They will use this week to become familiar with diagnosing and troubleshooting and fault condition.

Day 1: Learn how to read schematics. Learning the differences in the different types of drawings and how they can be used to our benefit.
Day 2: Basic Multimeter functions and uses. Learn Ohm's law and how to use the theory to put our multimeter to work. Troubleshooting an electrical circuit. Troubleshooting a transmitter.
Day 3: Exposure to Proficy Machine Edition and the GAP software. Using the software to help fault finding. Learning the delicate nature of how control system changes can affect a working machine.
Day 4: Limble – Work order completion. Working through preventative maintenance.
Day 5: Demonstration and site visits to perform learned procedures with utility operations team members.

Week 7-8 – Micro Grid Operations
Location: To Be Determined
On-Site, hands-on instructions provided by LCP's Operations Manager West, Brandon Smoker and his qualified team: Operations Supervisor Delio Lazo, Field Technician Level 2, Cody Parker, with the assistance of additional Turbine Operators/Field Technicians Levels 1,2 & 3 along with Gas Process Specialist, Chris Phillips.

Training Objectives 7 & 8: Interns will be able to understand and manage the operational aspects of micro-grid turbines operations. They will gain hands-on experience in the integration of turbines within a micro-grid system, focusing on performance monitoring, troubleshooting, and optimizing turbine efficiency for reliable energy generation. Interns will also be equipped to assess the impact of turbine operations on the overall micro-grid

stability, implement corrective actions, and make data-driven decisions to enhance the system's performance and sustainability.

Day one consists of training, demonstrations of expected procedures and a review of all a typical day to day workload with the manager, supervisor in the field. Following day one, the intern will be paired with an experienced team member for ongoing instruction, training, and support during the initial days and will receive further assistance as required. Each day a different focus will be implemented into the usual day schedule.

Week #7 (continued)	**Daily Focus**	*One-hour lunch and breaks provided daily.
Day 1 0700-1600	Introduction to Micro Grid.	
Day 2 0700-1100	Site specific safety procedures.	
1200-1600	Ride along with Micro-Grid Field Technician	
Day 3 0700-1130	JSA Creation and completion before Field operations.	
1230-1600	HMI (Human Machine Interface) Familiarization.	
Day 4 0700-1600	Ride Along with Micro-Grid Field Technician.	
Day 5 0700-1600	Basic Gas Equipment Training (Chris Phillips) (In-Depth Training Week 12)	

Week #8	
Day 1 0700-1600	Common Maintenance (Preventive Maintenance Procedures / Checks and Inspections).
Day 2 0700-1300	Custom Screen Building (Daily Checks Shortcuts).
1300-1600	Black Start Generators Familiarization and training.
Day 3 0700-1600	Turbine Package Introduction, (Components Streamline).
Day 4 0700-1600	Service Engineering Troubleshooting Training (Alex, Steve, Caleb).
Day 5 0700-1600	Review and Assess / Hands-on Demonstration with Performance Evaluation.

Weeks 9-10 Frac Operations
Location: To Be Determined
Instruction will be completed through hands-on demonstration and performance at field locations on site by Operations Manager – East Region Derek Lewis, Operations Supervisors Jaime Alberto and Patrick McGeeney with the assistance of additional Turbine Operators/Field Technicians Levels 1,2 and 3.

Training Objectives 9: Interns will have a foundation for operating and maintaining gas turbines and its associated equipment to ensure operational readiness. Taking responsibility for the safe and efficient operations of the turbines and their equipment. Using intern's learned knowledge of company policies and procedures needed for day-to-day operations. Interns will learn to complete daily logs and equipment and surrounding environment inspections.

Training Objective 10: Interns will know how to operate gas turbines in an oil and gas environment. Interns will earn a basic understanding of how to effectively troubleshoot various systems and components and utilize the application of the software provided. Interns will learn how fracking operations and turbine operations go hand in hand and how the fracking equipment affects the turbines.

Week 9-10 Daily Intern Schedule
Day one consists of training, demonstrations, and a review of all different areas with the manager and supervisor. Following day one, the intern will be paired with an experienced team member for ongoing instruction, training, and support during the initial days and will receive further assistance as required.

Tasks include but are not limited to starting, shutting down, monitoring of gas turbines.
0700-0800 Daily completion of operational logs per standard operating procedure.
0800-0900 Discussion of the night crew logs and notes then proceed into current day operation goals with team.
1000-1200 Conduct tasks in accordance with safety rules and workplace policies.

1200-1300 Lunch
1300-1330 Perform work area inspections. Note/log information required. Report any negative findings urgently.
1330-1400 Responsible for performing external visual inspections of equipment.
1400-1430 Tracking and updating project completion.
1430-1600 Provide troubleshooting oversight on turbines and equipment through software and tools provided.

*0700-1600 Aid with the installation and commissioning of gas turbines and other equipment (only during asset relocation if applicable)

Week 11-12 Service Engineering/Field Service Engineering
Location: Jersey Village Corporate Office & Site Visits (To Be Determined)
After interns have gained ten weeks of experience and have stronger knowledge of LCP, interns will work with the Field Service Engineering department for the last two weeks to gain a deeper insight into diagnosing and resolving complex issues by being instructed in an in-depth study of the different components of the systems and process of related technologies in LCP's industry.

Week 11
Training Objective: Intern will learn and observe the installation and configuration of new equipment and systems at customer locations. Perform routine maintenance. Gain a basic knowledge of interpreting drawings and software to diagnose and trouble shoot problems. Become more educated in providing technical support to customers in addressing questions and how to offer training on equipment usage. Documentation of all service activities and preparing reports for internal use and customer communication. Collaborate with internal teams, including engineering, sales, IT, and safety to ensure customer satisfaction and improve products and services.

Week 11
Day 1
0800-0900 Review InSight and Teams Channels for potential issues.
Observe two recurring scheduled Teams meeting to discuss the current week and past week.
- 0830 Field Service Engineering Meeting
- 0900 Status Update

1000-1200 Electrical Drawing Review / Discuss the differences between package/vendor drawings
1200-1300 Lunch
1300-1600 Mechanical and Process and Instrumentation Drawings Discuss the different sub systems.
1600-1700 Review and Q&A Session

Day 2
0800-0900 Review InSight and Teams Channels for potential issues.
0900-1200 SMT-60 / SMT-130 Gas Fuel System
- Operational theory
- Basic troubleshooting using knowledge gained from day prior

1200-1300 Lunch
1300-1600 SMT-60 / SMT-130 Lube Oil System
- Discuss the different sub systems contained within each drawing
- Basic troubleshooting using knowledge gained from day prior

1600-1700 Review and Q&A Session

Day 3
0800-0900 Review InSight and Teams Channels for potential issues.
0900-1200 SMT-60 Gas Fuel System Continued
- Operational theory and component identification
- Simulated Alarm / Shutdown troubleshooting

1200-1300 Lunch
1300-1600 SMT-60 Lube Oil System
- Operational theory and component identification
- Simulated Alarm / Shutdown troubleshooting

1600-1700 Review and Q&A Session

Day 4
0800-0900 Review InSight and Teams Channels for potential issues.
0900-1200 Introduction to basic PLC programing
- Basic Ladder Logic
- Basic Function Blocks
- Basic statements (Less Than, Equal to, Greater Than)

1200-1300 Lunch
1300-1400 Troubleshooting Tools
- OPC Strip Chart
- History Viewer
- Remote Monitoring

Day 5
0800-0900 Review InSight and Teams Channels for potential issues.
0900-1200 Office Project Overview
- SafeTap form creation
- Document storage and retention
- Issue Tracker
- PLC Trainer

1200-1300 Lunch
1300-1700 Site Visit for demonstrations and hands on application

Week 12 Natural Gas Operations
Location: Jersey Village Corporate Office and Houston Sites
Classroom, demonstration and hands-on instruction provided by LCP's qualified Gas Process Specialist, Chris Phillips with Field Engineering Service Manager, Alex Bissland and his team of Field Engineering Service Techs Caleb Schultz and Steven Salisbury.

Training Objective 12: Intern will gain a working knowledge of natural gas and how it is used in LCP's industry.

Day 1: Natural Gas Overview & Industry Basics
0800-0930 Introduction to Natural Gas
- Composition & properties of natural gas
- Role in energy production & distribution

0930-0945 Break
0945-1130 Industry Regulations & Safety
- OSHA, PHMSA, and DOT compliance
- PPE & hazard awareness

1130-1230 Lunch
1230-1430 Gas Transmission vs. Distribution
- Pipeline network structure
- High vs. low-pressure systems

1430-1445 Break
1445-1630 Gas Flow & Measurement
- Metering types & accuracy
- SCADA & monitoring systems

1630-1700 Review / Q&A Session

Day 2: Gas Processing & Treatment
0800-0930 Gas Processing Overview
- Stages of natural gas treatment
- Importance of dehydration & contaminant removal

0930- 0945 Break
0945-1130 Gas Treatment Processes
- Dehydration (Glycol & Molecular Sieve)
- Sweetening (H2S & CO2 removal)

1130-1230 Lunch
1230-1430 Gas Odorization & Quality Control
- Odorant injection systems
- Monitoring gas purity & composition

1430-1445 Break
1445-1630 Natural Gas Liquids (NGL) Separation
- Fractionation & stabilization
- Storage & transportation

1630-1700 Review / Q&A Session

Day 3: Compression, Storage, Pipeline Systems
0800-0930 Gas Compression Systems
- Purpose of compression in gas transport
- Types of compressors & their operation

0930-0945 Break
0945-1130 Storage & LNG Operations
- Underground storage & peak shaving facilities
- LNG basics & applications

1130-1230 Lunch
1230-1430 Pipeline Materials & Construction
- Pipe types, coatings, and welding methods

1430-1445 Break
1445-1630 Pipeline Integrity & Leak Detection
- Inspection methods (SCADA, pigging, visual)
- Leak detection & emergency response

1630-1700 Review / Q&A Session

Day 4: Turbines, Valves, & Pressure Control
0800-0930 Natural Gas-Powered Turbines
- Basics of gas turbines in power generation
- Gas turbine vs. reciprocating engine

0930-0945 Break
0945-1130 Turbine Components & Operation
- Air intake, combustion, and exhaust process
- Maintenance & efficiency factors

1130-1230 Lunch
1230-1430 Valves & Pressure Control Equipment
- Gate, ball, and check valves
- Regulator stations & overpressure protection

1430-1445 Break
1445-1630 Emergency Shutdown Systems (ESD)
- Shutdown valve types & functionality
- Hands-on troubleshooting simulations

1630-1700 Review / Q&A Session

Day 5: Field Training & Practical Application
0800-0930 Field Visit: Gas Processing or Compressor Station
- Walkthrough of gas processing/treatment facilities
- Hands-on review of equipment operations

0930-1130 Hands-on Training: Valve & Regulator Operation
- Practical exercises on valve manipulation
- Pressure Regulator and overpressure system adjustments

1130-1230 Lunch
1230-1400 Leak Detection & Response Drill
- SCADA & sensor review
- Hands-on leak detection exercises

1400-1500 Return to Corporate Office
1500-1700 Review, Program Assessment, Offboarding, Presentation of Certificates
- Review of key topics.
- Review and discussion of previous weekly assessments of intern's performance.
- Present intern with full time job offer provided intern meets requirements and approved.