

GENERAL SERVICES ADMINISTRATION

Federal Supply Service

Authorized Federal Supply Schedule Price List

On-line access to contract ordering information, terms and conditions, up-to-date pricing, and the option to create an electronic delivery order are available through GSA Advantage!, a menu-driven database system. The INTERNET address for GSA Advantage! is <http://www.gsaadvantage.gov/>.

Logistics Worldwide (LOGWORLD)

Contract Number: GS-10F-0380X
Contract Period: July 18, 2011 to July 17, 2016
NAICS 541614/SIC 8711
SINS 874-501, 874-501RC, 874-505 & 874-505RC



PD Systems, Inc.
5845 Richmond Highway
Suite 405
Alexandria, VA 22303
Tel: (703) 778-7699 x150
Fax: (703) 778-4781

Business Size: Service Disabled, Veteran-owned Small Business
PD Systems Internet Address: www.pd-sys.net

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Federal Acquisition Service *Authorized Federal Supply Schedule Price List*

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Schedule for - Logistics Worldwide (Logworld)

Federal Supply Group: 874V **Class:** R706

Contract Number: GS-07F-0380X

For more information on ordering from Federal Supply Schedules click on the FSS Schedules button at <http://www.gsa.gov/schedules-ordering>

Contract Period: July 19, 2011 through July 18, 2016

Contractor: PD Systems, Inc.
5845 Richmond Hwy Suite 600
Alexandria, VA 22303-1868

Business Size: Small, Veteran Owned, Service-Disabled Business

Telephone: (703) 778-7699
Extension: 150
FAX Number: (703) 778-4781
Web Site: www.pd-sys.net
E-mail: wmolino@pd-sys.net
Contract Administration: William Molino

CUSTOMER INFORMATION:

- 1a. **Table of Awarded Special Item Number(s) with appropriate cross-reference to page numbers:** 874-501/501RC, 874-505/505RC
- 1b. **Identification of the lowest priced model number and lowest unit price for that model for each special item number awarded in the contract. This price is the Government price based on a unit of one, exclusive of any quantity/dollar volume, prompt payment, or any other concession affecting price. Those contracts that have unit prices based on the geographic location of the customer, should show the range of the lowest price, and cite the areas to which the prices apply.**
- 1c. **If the Contractor is proposing hourly rates a description of all corresponding commercial job titles, experience, functional responsibility and education for those types of employees or subcontractors who will perform services shall be provided. If hourly rates are not applicable, indicate "Not applicable" for this item.**
2. **Maximum Order:** \$1,000,000.00
3. **Minimum Order:** \$100.00
4. **Geographic Coverage (delivery Area):** Domestic only
5. **Point(s) of production (city, county, and state or foreign country):** Same as company address
6. **Discount from list prices or statement of net price:** Government net prices (discounts already deducted). See Attachment.
7. **Quantity discounts:** None Offered
8. **Prompt payment terms:** Net 30 days
- 9a. **Notification that Government purchase cards are accepted up to the micro-purchase threshold:** Yes
- 9b. **Notification whether Government purchase cards are accepted or not accepted above the micro-purchase threshold:** will accept over \$3,000
10. **Foreign items (list items by country of origin):** None
- 11a. **Time of Delivery (Contractor insert number of days):** Specified on the Task Order

- 11b. Expedited Delivery.** The Contractor will insert the sentence “Items available for expedited delivery are noted in this price list.” under this heading. The Contractor may use a symbol of its choosing to highlight items in its price list that have expedited delivery: Contact Contractor
- 11c. Overnight and 2-day delivery.** The Contractor will indicate whether overnight and 2-day delivery are available. Also, the Contractor will indicate that the schedule customer may contact the Contractor for rates for overnight and 2-day delivery: Contact Contractor
- 11d. Urgent Requirements.** The Contractor will note in its price list the “Urgent Requirements” clause of its contract and advise agencies that they can also contact the Contractor’s representative to effect a faster delivery: Contact Contractor
- 12. F.O.B Points(s):** Destination
- 13a. Ordering Address(es):** Same as Contractor
- 13b. Ordering procedures:** For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPA’s), and a sample BPA can be found at the GSA/FSS Schedule homepage (fss.gsa.gov/schedules).
- 14. Payment address(es):** Same as company address
- 15. Warranty provision.:** Contractor’s standard commercial warranty.
- 16. Export Packing Charges (if applicable):** N/A
- 17. Terms and conditions of Government purchase card acceptance (any thresholds above the micro-purchase level):** Contact Contractor
- 18. Terms and conditions of rental, maintenance, and repair (if applicable):** N/A
- 19. Terms and conditions of installation (if applicable):** N/A
- 20. Terms and conditions of repair parts indicating date of parts price lists and any discounts from list prices (if applicable):** N/A
- 20a. Terms and conditions for any other services (if applicable):** N/A
- 21. List of service and distribution points (if applicable):** N/A
- 22. List of participating dealers (if applicable):** N/A
- 23. Preventive maintenance (if applicable):** N/A

- 24a. Environmental attributes, e.g., recycled content, energy efficiency, and/or reduced pollutants:** N/A
- 24b. If applicable, indicate that Section 508 compliance information is available on Electronic and Information Technology (EIT) supplies and services and show where full details can be found (e.g. contactor's website or other location.) The EIT standards can be found at:** www.Section508.gov/.
- 25. Data Universal Numbering System (DUNS) number:** 80-6797317
- 26. Notification regarding registration in Central Contractor Registration (CCR) database:** Registered

CONTRACTOR SITE LABOR RATES

Sin(s)	Labor Category	Min. Education	Min. Experience	CPL, effective 7/1/2009	Percent Discount	Awarded GSA Price Exc. .75% IFF	Awarded GSA Price Inc. .75% IFF
874-501, 874-505	Subject Matter Expert	HS	12	\$90.96	7.00%	\$84.59	\$85.23
874-501, 874-505	Logistician 2	HS	11	\$73.26	7.00%	\$68.13	\$68.65
874-501, 874-505	Logistician 1	HS	10	\$59.09	7.00%	\$54.95	\$55.37
874-501, 874-505	Engineer 4	BA	7	\$104.63	7.00%	\$97.31	\$98.04
874-501, 874-505	Engineer 1	BA	0.6	\$59.14	7.00%	\$55.00	\$55.42
874-501, 874-505	CAD Designer 4	HS	12	\$72.41	7.00%	\$67.34	\$67.85
874-501, 874-505	CAD Designer 2	HS	6	\$56.24	7.00%	\$52.30	\$52.70
874-501, 874-505	Administrative/Secretary 4	HS	8	\$62.78	7.00%	\$58.39	\$58.83
874-501, 874-505	Administrative/Secretary 3	HS	7	\$59.90	7.00%	\$55.71	\$56.13
874-501, 874-505	Data Analyst	HS	1	\$54.97	7.00%	\$51.12	\$51.51
874-501, 874-505	Program Manager 4	HS	20	\$154.47	7.00%	\$143.66	\$144.74
874-501, 874-505	Program Manager 2	HS	16	\$88.57	7.00%	\$82.37	\$82.99
874-501, 874-505	Project Manager 4	HS	18	\$102.26	7.00%	\$95.10	\$95.82
874-501, 874-505	Tech Analyst 5	HS	16	\$120.89	7.00%	\$112.43	\$113.28
874-501, 874-505	Tech Analyst 3	HS	12	\$72.08	7.00%	\$67.03	\$67.54
874-501, 874-505	Technician 3	HS	8	\$47.05	7.00%	\$43.76	\$44.09
874-501, 874-505	Training Specialist 6	HS	20	\$130.77	7.00%	\$121.62	\$122.54
874-501, 874-505	Training Specialist 4	HS	12	\$84.49	7.00%	\$78.58	\$79.17
874-501, 874-505	Mechanic/Field Service Representative 1	HS	5	\$46.77	7.00%	\$43.50	\$43.82
874-501, 874-505	Mechanic/Field Service Representative 4	HS	18	\$80.98	7.00%	\$75.31	\$75.88
874-501, 874-505	Mechanic/Field Service Representative 5	HS	23	\$99.64	7.00%	\$92.67	\$93.37

TRAINING COURSE RATES

SIN(s)	Course Title	Course Length	Min. Participants	Max. Participants	CPL, effective 7/1/09	Discount	Awarded GSA Price Exc. .75% IFF	Awarded GSA Price Inc. .75% IFF
874-501, 874-505	MEP-PU-810 & LB-1250R/R Operation Training MEP-PU-810 Electrical Troubleshooting Training	72 hours	6	12	\$46,758.60	6.67%	\$43,969.57	\$43,969.57
874-501, 874-505	MEP-PU-810 Operation Training	40 hours	6	12	\$15,839.25	6.67%	\$14,782.77	\$14,893.64
874-501, 874-505	MEP-PU-810 Engine Overhaul Training	40 hours	6	12	\$32,117.40	6.67%	\$29,975.17	\$30,201.68

The Service Contract Act (SCA) is applicable to this contract and it includes SCA eligible labor categories. The prices for the cited SCA labor categories are based on the U.S. Department of Labor Wage Determination Number(s) identified in the SCA matrix below. The prices offered are based on the preponderance of where work is performed and should the contractor perform in an area with lower SCA rates, resulting in lower wages being paid, the task order prices will be discounted accordingly.

Contract Labor Category	SCA Equivalent Code – Title	WD-Number
CAD Designer 4	30063- Drafter/CAD Operator IV	WD 05-2104
CAD Designer 2	30062- Drafter/CAD Operator II	WD 05-2104
Technician	23382 – Ground Support Equipment Worker	WD 05-2104
Training Specialist 6	15095 – Technical Instructor/Course Developer	WD 05-2104
Training Specialist 4	15090 – Technical Instructor	WD 05-2104
Mechanic/Field Service Representative 1	23430 – Heavy Equipment Mechanic	WD 05-2104
Mechanic/Field Service Representative 4	23430 – Heavy Equipment Mechanic	WD 05-2104
Mechanic/Field Service Representative	23430 – Heavy Equipment Mechanic	WD 05-2104
Administrative/Secretary 4	01311 - Secretary I	WD 05-2104
Administrative Secretary 3	01312 – Secretary II	WD 05-2104

Labor Category Descriptions

1. SUBJECT MATTER EXPERT

Description of Job Duties:

Provide technical expertise, functional expertise, or consultant expertise on advanced and state-of-the-art methods, theories, and techniques required in the investigation and solution of complex concepts, planning, design, and/or implementation problems. Highest level of individual contributor and is normally widely recognized for achievements, technical expertise, and meritorious standing within his or her professional field. Assesses user needs to determine logistics, technical or functional requirements. Determines most appropriate implementation strategies and coordinates with project staff as appropriate.

Minimum Education/Experience:

- High School Diploma and 12 years of experience. Education may be substituted for experience as follows: PhD, or Master's degree and 2 years experience, or Bachelor's degree and 4 years experience

2. LOGISTICIAN

Minimum/General Requirements:

Demonstrated ability to develop, test and deliver configuration and logistics management support services designed to provide clients with logistics technology to ensure effective and economical support for production and servicing products, systems, or equipment. Experience for each logistician level must be related to the elements of logistics support. Must be knowledgeable in the analysis of government logistics requirements, including familiarity with government logistics systems, capabilities, and processes. Should have experience with major systems and equipment and all aspects of integrated logistics support (ILS) elements and related planning, analysis, and management. Must be capable of assessing system and equipment impact of ILS elements. Experienced at performing comprehensive studies and analyses of logistics systems and planning. Performs process and procedural reviews; defines logistics system requirements; and evaluates logistics pipelines. Also performs inventory assessment, maintenance workload planning, and responding to program action items. Participates in logistics forums and provides facilitation services between government departments, agencies, and industry.

Minimum Education/Experience:

- Level 1 – High School Diploma and 10 years of experience. Education may be substituted for experience as follows: Master's degree or Bachelor's degree and 2 years experience

- Level 2 – High School diploma and 11 years experience. Education may be substituted for experience as follows: PhD, or Master's degree and 1 years experience, or Bachelor's degree and 3 years experience

3. ENGINEER

Minimum/General Requirements:

Must have specific engineering and technical engineering elements or sub-disciplines that is directly relevant to the specific work assigned. Engineering expertise at this level must have involved performing fundamental and progressive engineering assignments in at least one life-cycle phase, i.e., strategic planning, concept development and requirements analysis, system design, engineering and integration, test and evaluation, in-service engineering, and/or acquisition and life cycle management. Must be knowledgeable in techniques for performing engineering related tasks to identify support and test requirements to be employed in support of operation and maintenance once deployed. Engineering efforts shall include but is not limited to: requirements analysis; materials studies/analysis; system/component integration; interoperability; interconnectivity; structured analysis; testing methodologies; automation principles; test program set development; database structuring, modeling techniques; testability; supportability and logistics support; reliability and maintainability; human factors; safety engineering; environmental engineering; packaging; handling; transporting; facilities/building requirements; power/electrical distribution requirements analysis; cabling; piping; configuration management/product data management; integrated product team or multi-discipline team; and test planning/testing. Supports engineering investigations providing failure analysis to determine cause of failure. Recommends engineering solutions relative to design, materials, training, and/or supportability.

Minimum Education/Experience:

- Level 1 – Bachelor's degree and 6 months experience.
- Level 4 – Bachelor's degree and 7 years experience. Education may be substituted for experience as follows: PhD and 3 years experience, or Master's degree and 5 years experience, or Bachelor's degree and 7 years experience

4. CAD DESIGNER

Minimum General Requirements:

Must have experience in computer-aided design tools such as 3D CAD, CAM, CAE or EE Designer. Must be familiar with advanced design techniques and have had experience working with engineers and/or manufacturing to develop and produce drawings. Must have experience in utilizing electronic drafting applications in the preparation of other related engineering graphics, data, documentation. Utilized design related drafting concepts and procedures to produce two-dimensional drawings to support systems and equipment for Chemical, Electronic, and Mechanical engineering disciplines.

Minimum Education/Experience:

- Level 2 –High School diploma and 6 years experience. Education may be substituted for experience as follows: Technical Trade School Diploma and 4 years experience
- Level 4 – High School diploma and 12 years experience. Education may be substituted for experience as follows: Bachelor’s degree and 4 years experience or a Technical School Diploma and 10 years experience

5. ADMINISTRATIVE/SECRETARY

Minimum/General Requirements:

Provide administrative-type support to logistics, engineering, technical and management-level personnel. This includes, but not limited to, documentation planning and support, project administration, general office support, word processing, spreadsheet development, executive secretarial support, human resource planning, event planning and administration, office relocation planning, mail services, records data input, etc. Performs specialized program/project administrative duties support project management staff, which may include maintaining records or technical reports, verifying statistical reports for accuracy and completeness, making travel, meeting, or conference arrangements, taking inventory of equipment and supplies, and helping prepare financial or technical reports. Properly prepares, formats, and prints administrative correspondence. Proofreads, edits, and corrects correspondence. Operates computer equipment, telecommunications equipment, including telephones/facsimile machines and basic office equipment, including reproduction machines/GBC binder systems. Composes correspondence that requires an understanding of engineering/technical nomenclature. Prepares required administrative reports. Coordinates and plans office administration and support. Provides administrative-type support to managers, engineers, specialists and analysts. This includes, but is not limited to, documentation planning and support, project administration, general office support, executive secretarial support, human resource planning, event planning and administration, office relocation planning, mail services, records, data input, etc.

Minimum Education/Experience:

- Level 3 – High School diploma and 7 years experience. Education may be substituted for experience as follows: Trade School Diploma and 5 years experience.
- Level 4 – High School diploma and 12 years experience. Education may be substituted for experience as follows: Bachelor's degree or Trade School Diploma and 7 years experience

6. DATA ANALYST**Minimum/General Requirements:**

Researches, reviews, and analyzes technical, financial, and management-related documents and data. Works with computer-generated reports and extracts data from databases to develop and generate information and summary data to support such activities as logistic, engineering, and technical evaluations; management and financial record keeping, tracking and reporting; validation of information on source documentation. Provides general business expertise in reviewing and evaluating data and information from databases and computer-generated documents/reports.

Minimum Education/Experience:

- Level 1 – High School diploma and 1 year experience.

7. PROGRAM MANAGER**Minimum/General Requirements:**

Progressive experience which includes: managing, directing, and implementing logistic, engineering, and technology projects, demonstrated ability to provide guidance and technical direction for projects, proven expertise in program/project management, manufacturing, purchasing, management/control of funds and resources, contracts, testing, and business. Experience for each logistics manager level must be related to planning, concept development and requirements analysis, design engineering, test and evaluation, acquisition and life cycle management. Must possess extensive knowledge of technical and management concepts, procedures and practices. General experience includes increasing responsibilities in: systems design and management; management of diverse functional activities and technical/support personnel; managing complex, multi-task commercial and government contracts; and allocation/prioritization of resources. Serves as the contractor's single contract manager, and shall be the contractor's authorized technical interface with the Government Contracting Officer (CO), Contracting Officer's

Representatives (CORs), government management personnel, and customer agency representatives. Directs all phases of programs/projects from inception through completion. Coordinates the preparation of project plans, milestones, and operating budgets; development of project approaches/concepts; and obtaining proper resources within and across organizational boundaries. Reviews and evaluates work of staff, provides task oversight and prepares periodic performance reports. Acts as primary customer contact for task activities, leading task review sessions with customer to discuss cost, schedule, and technical performance. Evaluates requirements, establishes task approach, organizes personnel resources, and directs engineering efforts for services or system/equipment research, development, integration, test, and sustainment. Establishes milestones and monitors adherence to master plans and schedules. Identifies program problems and obtains solutions. Directs the work of technical, logistics, engineering, and support personnel assigned to the task and is responsible for overall task performance, product quality and timeliness of efforts.

Minimum Education/Experience:

- Level 2 – High School diploma and 16 years experience. Education may be substituted for experience as follows: PhD and 4 years experience, or Master’s degree and 6 years experience, or Bachelor’s degree and 8 years experience
- Level 4 – High School Diploma and 20 years experience. Education may be substituted for experience as follows: PhD and 8 years experience, or Master’s degree and 10 years experience, or Bachelor’s degree and 12 years experience

8. PROJECT MANAGER**Minimum/General Requirements:**

Must have experience with managing, directing, and implementing logistic, engineering, and technology project(s), demonstrated ability to provide guidance and technical direction for project(s), proven expertise in project management, manufacturing, purchasing, management/control of funds and resources, contract(s), testing, and business. Experience for each logistics project manager level must be related to planning, concept development and requirements analysis, design engineering, test and evaluation, acquisition and life cycle management. Must possess extensive knowledge of technical and management concepts, procedures and practices. General experience includes increasing responsibilities in: systems design and management; management of diverse functional activities and technical/support personnel; managing complex, multi-task commercial and government contract(s); and allocation/prioritization of resources. Directs all phases of the project(s) from inception through completion. Coordinates the preparation of project plans, milestones, and operating budgets; development of project approaches/concepts; and obtaining proper resources within and across organizational boundaries. Reviews and evaluates work of staff, provides task oversight and prepares periodic performance reports. Evaluates requirements, establishes task approach, organizes personnel resources, and directs engineering efforts for services or system/equipment research, development, integration, test, and sustainment. Establishes

milestones and monitors adherence to master plans and schedules. Identifies program problems and obtains solutions. Directs the work of technical, logistics, engineering, and support personnel assigned to the task and is responsible for overall task performance, product quality and timeliness of efforts.

Minimum Education/Experience:

- Level 4 – High School Diploma and 18 years experience. Education may be substituted for experience as follows: PhD and 6 years experience, or Master’s degree and 8 years experience, or Bachelor’s degree and 10 years experience

9. TECH ANALYST

Minimum/General Requirements:

Applies knowledge of and experience with complex technological concepts in civil electronic, electrical, mechanical, aeronautical, and related technological and engineering disciplines to prepare and accept specifications, design and production documentation, test plans and procedures.

Minimum Education/Experience:

- Level 3 – High School diploma and 12 years experience. Education may be substituted for experience as follows: PhD, or Master’s degree and 2 years experience, or Bachelor’s degree and 4 years experience
- Level 5 – High School diploma and 16 years experience. Education may be substituted for experience as follows: PhD and 4 years experience, or Master’s degree and 6 years experience, or Bachelor’s degree and 8 years experience

10. TECHNICIAN

Minimum/General Requirements:

Repairs, rebuilds, or overhauls major assemblies of automotive related combat and power equipment. Technician must be knowledgeable in the principles of automotive mechanics, electrical continuity testing, inspections, interactive electronic diagnostic, equipment troubleshooting, calibration, welding, repair and testing. Duties and responsibilities include: diagnosing the source of trouble and determining the extent of repairs required. The Technician must be familiar with various equipment systems sufficient to provide inspection, troubleshooting, evaluation and all repair necessary to restore/return damaged equipment to Fully Mission Capable (FMC) status. In general, the technician requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. May perform other duties as assigned.

Minimum Education/Experience:

- Level 3 – High School diploma and 8 years experience. Education may be substituted for experience as follows: Bachelor's degree, or Associates Degree and 4 years experience

11. TRAINING SPECIALIST

Minimum/General Requirements:

Demonstrated experience in developing computer-based and /or multimedia training products or in the delivery of training curricula. Must also have experience in the planning, implementation, management and execution of training programs. Requires experience in instructional system design or course instruction with knowledge of digital video, CD-ROM and network delivery techniques. Experience may also include areas of expertise such as media selection, web-based training, interactive video-training, distance learning, computer based training, instructional videos, synchronous/asynchronous training. Instructor led courses, self-study materials, training device design, integration, and application. Must have progressive experience in developing and providing training on computer hardware and application software. Demonstrated ability to effectively communicate and interface with new trainees and provide clear, concise hands on training. Duties and responsibility include: develops training products and/or provides training services, performs training course/curricula design and authoring, preparing course content material to include course outline, background material, instructor guides and training aids, student guides, workbooks, handouts, classroom practical exercises, multi-media presentation material, completion certificates, and course critique forms. Responsible for setting up and platform instruction, soliciting student feedback, and reporting student performance. Performs training assessments and develops input to training program management plans to support acquisition and life cycle support requirements planning. Monitors training program schedules and integrates/develops recommendations for corrective and remedial action.

Minimum Education/Experience:

- Level 4 – High School diploma and 12 years experience. Education may be substituted for experience as follows: PhD, or Master’s degree and 2 years experience, or Bachelor’s degree and 4 years experience
- Level 6 – High School diploma and 20 years experience. Education may be substituted for experience as follows: PhD and 8 years experience, or Master’s degree and 10 years experience, or Bachelor’s degree and 12 years experience

12. MECHANIC/FIELD SERVICE REPRESENTATIVE**Minimum/General Requirements:**

Individual must have working knowledge of the product and an understanding of the technical and serviceable aspects of the equipment. FSR will provide maintenance support, including repair and replacement of major components to maintain combat readiness. Individual may be required to maintain an inventory of all deployment blocks, tools, and test equipment, and provide weekly maintenance and supply and support reports., Primary duties include; manage services issues with product for assigned customers, identify and document product issue root cause and resolution, perform field investigations and generate accurate field service reports, provide service administration and technical update training, provide technical and administrative support.

Minimum Education/Experience:

- Level 1 – High School diploma and 5 years experience.
- Level 4 – High School diploma and 18 years experience. Education may be substituted for experience as follows: Master’s degree and 8 years experience, or Bachelor’s degree and 10 years experience
- Level 6 – High School diploma and 23 years experience. Education may be substituted for experience as follows: Master’s degree and 13 years experience, or Bachelor’s degree and 15 years experience

Training Course Offerings and Descriptions

MEP-PU-810 & LB-1250R/R OPERATION TRAINING MEP-PU-810 ELECTRICAL TROUBLESHOOTING TRAINING

1. GENERAL

- i. Course Title: PDS-810-Op (PU-810 Operation Training), PDS-810-TS (PU-810 Electrical Troubleshooting Training), PDS-LB1250-Op (LB-1250R/R load bank Operation Training)
- ii. Duration: 72 hours
- iii. Number of Students: 6/12 min/max
- iv. Support Materials: MEP-PU-810A or B model (preferably two), Operator's Remote Terminal (ORT), LB-1250R/R or similar load bank, and interconnect cables between PU-810 and LB-1250.

2. COURSE OVERVIEW

This training course is divided into three parts. The first class is intended to familiarize students with the proper methods of operating a MEP-PU-810 generator with the use of the MEP-PU-810 Operator and Maintenance Manual.

The second part of the course familiarizes students with the operation of the LB-1250R/R load bank. This includes familiarizing students with the major subsections of the load bank and then how to use the load bank with a power source.

The third part of the course familiarizes students with basic troubleshooting of the MEP-PU-810 power unit. This included basic troubleshooting techniques, familiarization with the automation system for troubleshooting assistance, and actual hands on troubleshooting using the 1250KVA load bank for testing.

Materials and Labor Hours for a Training Specialist 6 are included in the cost of this course.

3. COURSE OBJECTIVES

- i. Familiarize students with procedures so they may properly perform and verify MEP-PU-810s are properly set up for operation.
- ii. Familiarize students with setting up, configuring, and operating single or multiple MEP-PU-810 generator(s) safely and properly.
- iii. Familiarize students with the methods of monitoring and single or multiple MEP-PU-810 generator(s) locally or remotely from and Operator's Remote Terminal (ORT).
- iv. Familiarize students with the operation of the PU-810 in conjunction with the 1250KVA load bank.
- v. Familiarize students with troubleshooting techniques in locating and repairing actual instructor-installed faults.

4. COURSE PREREQUISITES

- i. Students are expected to have a basic understanding of mechanical theory, specifically how a diesel engine and heat transfer cooling works.
- ii. Students are expected to have an understanding of electrical theory.
- iii. Students are expected to understand the principles and methods of synchronizing and operating generators in parallel.
- iv. Students are expected to have knowledge of proper safety practices for working with and around medium voltage equipment.

5. COURSE COMPLETION REQUISITES

- i. Demonstrate the ability to select appropriate section in Operator’s Manual to use for verifying generator general setup.
- ii. Demonstrate the ability to configure and properly start up a single and multiple generator line up.
- iii. Demonstrate the safe and proper operation of a multiple generator line up, including black start, shift of online generators, and complete plant shutdown.
- iv. Demonstrate the proper operation of the load bank operating with the MEP-PU-810.
- v. Demonstrate safe and proper troubleshooting techniques to locate and repair faults installed into the MEP-PU-810 that do not allow normal system operation.

6. TRAINING MODULES

Topic	POI Hours
Classroom instruction on the MEP-PU-810	16
Hands on instruction for setup and configuration	8
Hands on evaluation of students	8
Classroom instruction on LB-1250R/R	8
Hands on instruction on LB-1250 systems and operation	8
Classroom instruction on MEP-PU-810 electrical schematics	8
Hands on practical experience with troubleshooting	8
Hands on evaluation of students performing troubleshooting	8

MEP-PU-810 OPERATION TRAINING

1. GENERAL

- i. Course Title: PU-810 Operation Training
- ii. Duration: 40 hours
- iii. Number of Students: 6/12 min/max
- iv. Support Materials: MEP-PU-810A or B model (preferably two), Operator's Remote Terminal (ORT), 1-2MW medium voltage load bank, and interconnect cables between PU-810 and load bank.

2. COURSE OVERVIEW

This training course is intended to familiarize students with the proper methods of operating a MEP-PU-810 generator with the use of the MEP-PU-810 Operator and Maintenance Manual. The student is familiarized with using the Operations Manual to properly setup, configure, and operate a PU-810 power plant. The student(s) are familiarized with local and remote operation in both manual and automatic modes of operation.

Materials and Labor Hours for a Training Specialist 6 are included in the cost of this course.

3. COURSE OBJECTIVES

- vi. Familiarize students with procedures so they may properly perform and verify MEP-PU-810s are properly set up for operation.
- vii. Familiarize students with setting up, configuring, and operating single or multiple MEP-PU-810 generator(s) safely and properly
- viii. Familiarize students with the methods of monitoring and single or multiple MEP-PU-810 generator(s) locally or remotely from and Operator's Remote Terminal (ORT).

4. COURSE PREREQUISITES

- v. Students are expected to have a basic understanding of mechanical theory, specifically how a diesel engine and heat transfer cooling works.
- vi. Students are expected to have an understanding of electrical theory.
- vii. Students are expected to understand the principles and methods of synchronizing and operating generators in parallel.
- viii. Students are expected to have knowledge of proper safety practices for working with and around medium voltage equipment.

5. COURSE COMPLETION REQUISITES

- ix. Demonstrate the ability to select appropriate section in Operator's Manual to use for verifying generator general setup.
- x. Demonstrate the ability to configure and properly start up a single and multiple generator line up.
- xi. Demonstrate the safe and proper operation of a multiple generator line up, including black start, shift of online generators, and complete plant shutdown.

6. TRAINING MODULES

Topic	POI Hours
Classroom instruction on the MEP-PU-810	16
Hands on instruction for setup, configuration, and operation	16
Hands on evaluation of students	8

MEP-PU-810 ENGINE OVERHAUL TRAINING

1. GENERAL

- i. Course Title: PDS-810-TS (PU-810 ENGINE OVERHAUL Training)
- ii. Duration: 40 hours
- iii. Number of Students: 6/12 min/max
- iv. Support Materials: MEP-PU-810A or B model (preferably two), Operator's Remote Terminal (ORT), 1-2MW medium voltage load bank, and interconnect cables between PU-810 and load bank.

2. COURSE OVERVIEW

This training course familiarizes students with troubleshooting the MEP-PU-810 power unit concentrating mainly on the Power Distribution Center and its components. This includes component identification, troubleshooting techniques, familiarization with the automation system for troubleshooting assistance, and actual hands on troubleshooting using the load bank for testing.

Materials and Labor Hours for a Training Specialist 6 are included in the cost of this course.

3. COURSE OBJECTIVES

- ix. Familiarize students with the major components of the PU-810.
- x. Familiarize students with the interactions in different components in the different modes of operation.
- xi. Familiarize students with using the ORT to diagnose and troubleshoot control problems.
- xii. Familiarize students with troubleshooting techniques in locating and repairing faults in the PU-810, specifically in the PDC.

4. COURSE PREREQUISITES

- i. Students are expected to have an understanding of electrical theory.
- ii. Students are expected to understand the principles and methods of synchronizing and operating generators in parallel.
- iii. Students are expected to have knowledge of proper safety practices for working with and around medium voltage equipment.
- iv. Students are expected to have an understanding of operation of the MEP-PU-810 in both manual and automatic modes of operation.
- v. Students should have completed PDS-810-Op training class or the US Army's MEP school at Ft. Belvoir.

5. COURSE COMPLETION REQUISITES

- i. Demonstrate the ability to identify major components on the PU-810 and how they function and interact with other components and systems.
- ii. Demonstrate an understanding of how networked PU-810s work together in all operations.
- iii. Demonstrate the ability to shift operational modes of online PU-810s without affecting generating capacity in order to troubleshoot a faulty PU-810 unit.
- iv. Demonstrate safe and proper troubleshooting techniques to locate and repair faults installed into the MEP-PU-810 that do not allow normal system operation.

6. TRAINING MODULES

Topic	POI Hours
Classroom instruction on the MEP-PU-810	8
Classroom instruction on MEP-PU-810 electrical schematics	8
Familiarization with operating modes and operating PU-810s	4
Hands on practical experience with troubleshooting	12
Hands on evaluation of students performing troubleshooting	8