



**Logistics Management Associates**  
**3010 Heather Green Blvd.**  
**LaGrange, Kentucky 40031**  
**www.log-mgmt.com**

**Course Schedule**  
**2023**

10-12 January 2023	<p>Logistics Product Data</p> <p>A comprehensive presentation of the complete GEIA STD 0007C LPD including all data entities and relationships to the analysis processes of TA STD 0017A plus output reports from TA HDKB 0007-1A</p>
17-18 January 2023	<p>The Winning Trifecta</p> <p>Combining Product Design for Sustainment, Prognostic/Predictive Maintenance, and Supply Chain Management to produce a measurable winning result that improves profitability, productivity and lowers cost of ownership.</p>
13 February 2023	<p>Fundamentals of Integrated Product Support</p> <p>A brief introduction to the concepts, philosophies and practices of implementing Integrated Product Support solutions on contemporary commercial, aerospace and defense programs.</p>
21-23 February 2023	<p>Reliability, Availability and Maintainability (RAM) Concepts</p> <p>A comprehensive presentation of the RAM processes used to improve system availability, expose design concerns and lower cost of ownership. Topics include testability, accessibility, safety, FMECA/DMECA/FMEDA and RCM.</p>
7-9 March 2023	<p>How to “Do” Life Cycle Costing</p> <p>A hands-on workshop that allows students to experience performing LCC. The presentation does not focus on a specific software LCC tool; rather the course provides the knowledge and skills to better apply any LCC approach to minimize total cost of ownership.</p>
27-30 March 2023	<p>Product Support Analysis</p> <p>A practical and common sense presentation of how TA STD 0017A provides an elastic process, applicable to any project, that develops measurable requirements and expectations, implements attributes in the design solution, determines a cost effective sustainment footprint and guides in-service sustainment.</p>
4-6 April 2023	<p>Provisioning Process and Supply Support</p> <p>A complete, detailed presentation of the total provisioning process including spares ranging, scaling and stockage methods. Focus on the relationship between provisioning and operational availability.</p>

**Further information on courses and registration: [conference@log-mgmt.com](mailto:conference@log-mgmt.com)**



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## **Logistics Product Data (LPD) A Three-Day Course**

**Course Overview:** An intensive, hands-on course of instruction, not an overview, but a nuts-and-bolts marathon. This is a fast-paced course of instruction. It is assumed that attendees have prior knowledge of the Product Support Analysis (PSA)/Logistics Support Analysis (LSA) process and some background in logistics programs. The course is a very detailed presentation of every LPD Data Entity, Data Element (DED) and LPD Summary Report. At the completion of this course, students will have a real, usable understanding of the LPD, how it is created, and how it should be used. This will provide invaluable experience to be applied immediately. It is gained knowledge that students cannot afford to miss.

### **Course Outline:**

#### **Lesson 1: The Product Support Analysis Program**

- Overview of the Product Support Analysis process -TA STD 0017A
- Introduction to the Logistics Product Data - GEIA STD 0007C
- Overview of the LPD data entities
- Discussion of data elements and data codes
- Starting the Process - Input Requirements
- Analyzing the design
- Use Study /Application Assessment
- LSA Control Number development
- LSA Candidate List preparation

#### **Lesson 2: Creation of the LPD**

An in-depth excursion through every LPD data entity which discusses how each data element requirement may be satisfied, where the information originates, how to arbitrate the correct responses and linking the final answers to the analysis process.

- Establishing a Project Neutral Data Library
- Establishing a document library
- Setting up the Project within the LPD
- Understanding the document linking library
- Preparation of PSA requirements data
- Preparation of PSA R&M data



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- Preparation of PSA maintenance data
- Preparation of PSA support equipment data
- Preparation of PSA UUT data
- Preparation of PSA facilities requirements data
- Preparation of PSA skills requirements data
- Preparation of PSA resource requirements data
- Preparation of PSA safety and hazardous materials data
- Preparation of PSA provisioning data
- Preparation of PSA personnel data
- Preparation of PSA transportability data

### **Lesson 3: LPD Summary Reports**

Detailed discussion of the LPD Summary Report process concentrating on the purpose and intent of each individual report and identification of uses of the information derived. Every report contained in TA HB 0007-1A is discussed in detail to determine the logic of the report, the data elements required to produce the report and its applicability to specific situations.

- Discussion of every summary report
  - Key Data Elements required to produce the report
  - Discretionary Data Elements that enhance the information
  - Optional Data that may be useful
- When and why to use each report
  - When a report should be used
  - Purpose of the report
  - Final or Work-In-Progress Report
- Using Reports
  - Improving system design
  - Quantifying Through Life Support requirements
  - Quantifying PBL liabilities
  - Determining Physical Logistics Packages

### **Lesson 4: Extending the LPD**

- ASD Specification 1000D
- ASD Specification 2000M
- ASD Specification 3000L
- ASD Specification 4000P
- ASD Specification 5000F
- ASD Specification 6000T



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## **Lesson 5: Business issues of the LPD**

- LPD Software
- Tailoring the LPD
- LPD Data Selection Criteria
- LPD Data Applicability Tailoring
- Preparation of an LPD Style Guide
- Contractual issues
  - Writing a good PWS/SOW requirement for LPD
  - CDRL Requirements
  - LPD Data Review Process
  - Delivery and Acceptance

## **Lesson 6: LPD Implementation for Product Support Analysis**

- Creating and Maintaining a Neutral Data Library
  - Mandatory Data Elements
  - Discretionary Data Elements
  - Avoiding Useless Data
- Recording the Analysis Process
  - Systems Engineering inputs
  - Setting and Measuring Expectations
  - Maintenance Engineering Analysis
  - Resource Projections and Confirmations
  - Operational Resources Planning
- Linking to Configuration Status Accounting
  - Selection Criteria
  - Optional Features
  - Multiple generations
- Linking to Asset Management
  - Service Planning
  - Maintenance Data Collection
  - Resource Allocation and Forecasting
  - Budgeting for Actuals
- Linking to Obsolescence Management
  - DMSMS
  - Problem Identification and Resolution
  - Corporate Solutions for Project Problems
- Using the LPD for Supportability Assessment
  - Design and Program Reviews
  - Maintenance Task Validation
  - Maintainability Demonstration



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- Post Fielding Analysis
- In-Service Assessment
- Using the LPD for Operational Mission Planning

**Lesson 7: Conclusion**

- Examples of Successful Implementation
- Future Possibilities

**Course Fee:** US\$895

**Register at:** [conference@log-mgmt.com](mailto:conference@log-mgmt.com)



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Logistics Product Data 10-12 January 2023 (\$895)

Early Bird Discount 10%

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**The Winning Trifecta**  
**Product Design for Sustainment**  
**Prognostic/Predictive Maintenance**  
**Supply Chain Management**  
***A Two-Day Presentation***

## **Course Description**

The course focuses on integration of the three most powerful concepts that are proven to achieve ultimate goals for improved profitability, productivity and availability. Product Design for Sustainment highlights how specific attributes increase the potential to achieve the target availability values. Prognostic/Predictive maintenance significantly reduce unscheduled downtime. And, Supply Chain Management reduces the overall logistics footprint and cost of doing business. However, integrating these three concepts into a single process results in potential exponential returns on investment. The processes presented in this course are applicable virtually every one of today's programs.

## **Course Outline**

- Introduction to the Concepts
  - Product Design for Sustainment
  - Prognostic/Predictive Maintenance
  - Supply Chain Management
  
- Establishing Measurable Outcomes and Expectations
  - Profitability
  - Productivity
  - Availability
  - Total Cost of Ownership
  
- Product Design for Sustainment
  - System Architecting and Engineering
  - Reliability, Maintainability, Testability and Accessibility
  - Standardization and Commonality
  - Safety and Human Factors Engineering
  - Failure Modes Effects Analysis
  - Reliability Centered Maintenance
  - Sensor Selection and Placement
  - Testing the results





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- Prognostic/Predictive Maintenance
  - Developing the Knowledge base
  - Data-driven decisions
  - Machine-learning techniques
  - Applicable trade studies
  - Cost-based decisions
  - Availability-driven solutions
  - Determining the best balance
  - Assessing Possibilities
  - Preparing for Unscheduled events
  - Evaluating Risk against Rewards
  
- Supply Chain Management
  - Maintenance Engineering Analysis
  - Level of Repair Analysis
  - Developing the Sustainment solution
  - Mapping the supply chain
  - Knowing the show-stoppers
  - Pre-crisis Alert solutions
  - Obsolescence Avoidance
  - Maintaining the Flow
  - Infrastructure Assessment
  
- Lessons Learned
  - Managing for success
  - Trend Analysis
  - Finding the Cure
  - Continuous design improvement
  - Adding links to the chain
  - Stopping/avoiding Surprises
  
- Conclusion

**Course Fee:** US\$695

Register at: [conference@log-mgmt.com](mailto:conference@log-mgmt.com)



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- The Winning Trifecta 17-18 January 2023 (\$695)
  - Early Bird Discount 10%
  - CLEP/SOLE Active Member Discount 10%

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**Integrated Product Support**  
*A Brief Discussion*

**Course Description**

The course is for the non-logistics professional that needs to understand the basic philosophy and concepts of life cycle logistics, supportability during product development, logistics technical disciplines and logistics resource development techniques. The course is also extremely beneficial for the novice logistician needing to broaden their scope of knowledge on diverse logistics-related topics. Presented in a fast-paced situational study format, the course explores all aspects of logistics and support issues of contemporary programs. Applicable standards and specifications are introduced for future reference. Attendees will gain valuable insight into the problems, challenges and potential solutions encountered on virtually every one of today's programs.

**Course Outline**

- Integrated Product Support Concepts
- Related Technical Disciplines
- Product Life Cycle
- Logistics Life Cycle
- Total Cost of Ownership
- Maintenance Planning
- Provisioning and Supply Support
- Packaging, Handling, Storage & Transportability (PHS&T)
- Technical Documentation
- Manpower and Personnel
- Training and Training Equipment
- Support and Test Equipment
- Facilities and Infrastructure
- IT Systems Continuous Support
- Product Support Analysis
- Logistics Product Data
- IPS Management Issues
- IPS Planning Documentation
- Conclusion

**Course Fee:** US\$395

**Registration:** [conference@log-mgmt.com](mailto:conference@log-mgmt.com)



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Please register me for:

Fundamentals of Integrated Product Support 13 February 2023 (\$395)

Early Bird Discount 10%

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## **How to “Do” Life Cycle Costing**

### **A Three-Day Course**

#### **Course Overview**

The Life Cycle Cost (LCC) process will be discussed in detail to determine how and why these techniques are applied. An intensive study of modeling techniques will provide an in depth understanding of how LCC, LORA, Spares Optimization, and Availability models function. The process to be used in selection and validation of models is provided with detailed examples of how any model must be evaluated prior to use.

This is an intensive workshop-format training course with student hands-on development and use of models. Prior experience with LCC is not required, but students are expected to be comfortable in the use of computers and familiar with spreadsheet operations. Microsoft Excel is also used for exercises.

This training course is designed for program managers, Product Support Managers, logistics engineers, design engineers, systems engineers, analysts and other persons holding positions responsible to perform, manage or contract for LCC.

#### **Course Outline**

##### **Day 1 - Concepts of LCC**

- Life Cycle Costing concepts
- Through Life Costing
- Whole Life Costing
- Cost of Ownership
- Cost Effectiveness of Investment Analysis (CEIA)
- Cost as an Independent Variable (CAIV)
- Developing Cost Estimation Relationships (CER)
- Visibility and Management of Operating and Support Costs (VAMOSOC)
- Supportability engineering modeling
- Resource optimization modeling
- LCC as part of Product Support Analysis
- LCC modeling concepts



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- LORA concepts
- LORA as part of LCC
- LORA within Product Support Analysis
- Applications and limitations of LCC and LORA
- Spares Optimization Modeling Concepts
- Related and Contrasting Modeling techniques
- Selection and validation of models

## **Day 2 - Applications of Modeling**

- Cost Analysis Requirements Description (CARD)
- Comparison Analysis Modeling
- Sensitivity Analysis Modeling
- Simulation Modeling
- Monte Carlo Simulation
- Risk Analysis Modeling
- Worst Case Analysis
- Spares Modeling Techniques
- Availability Modeling Techniques
- Understanding Data Requirements
- Data Interpretation
- Determining Unknown Variables
- Cost Estimation Techniques
- Analogy-based Estimating
- Parametric Estimating
- Activity-based Estimating
- Data Interpretation
- Data Extrapolation

## **Day 3 - How LCC Models Think**

Students participate in analysis of an LCC model focusing on each cost element and its application to the LCC process. Each formula contained within the model is analyzed to educate students on how models process input data to produce the final cost estimates. Then, students will use the instructor-provided model to determine the cost implications of design early support decisions. LC2 Model Version 2022-1J.1a will be used to illustrate spreadsheet modeling techniques.



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### **Day 3 - A Study of Complex LCC Modeling**

Students participate in analysis of a complex LCC model. The Cost Analysis Strategy Assessment (CASA) Model is used as the basis for the practical exercise.

Students work a practical exercise to illustrate how complex LCC models use detailed equipment data to estimate operation and support costs. The practical exercise output is a decision as to which support structure provides the optimum balance between design, operation, spares, and availability.

**Course Fee:** US\$895

**Register at:** [conference@log-mgmt.com](mailto:conference@log-mgmt.com)



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How to "Do" Life Cycle Costing 7-9 March 2023 (\$895)

Early Bird Discount 10%

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## **Product Support Analysis**

### **TA STD 0017A**

#### **A Four-Day Course**

**Course Overview:** DoD Instruction 5000.91, Product Support Management for the Adaptive Acquisition Framework, established the requirements for product support management on any program. TA STD 0017A, Product Support Analysis, provides the processes and methodologies for the Product Support Management to meet those requirements. GEIA STD 0007, Logistics Product Data, is the capability to document, use and communicate the results. The Product Support Analysis course is a detailed presentation of the lifecycle logistics process. The course presents the concepts, theories and philosophies of PSA, and then allows students to experience its application through realistic practical exercises. The course includes methods of PSA for design, upgrade, and off the shelf programs for both hardware and software are discussed to determine appropriate application techniques for both the buyer and the seller. The new TA STD 0017A expands traditional ILS efforts into a formal in-service process for continuous improvement and enhancing operational availability and mission capability.

This course is a comprehensive study of how the PSA process can be applied in a cost-effective manner to lower whole life costs. The course focuses on how to obtain the maximum benefit for the least investment in time and money.

A significant benefit of this course is resolving the myths and horror tales that have surrounded the PSA process. At the completion of this course students will understand that PSA does not create a large cost for acquisition; that PSA does not equate to useless data and databases; PSA now stretches through the in-service phase of a program and that, when done properly, PSA is a dynamic process that provides a pathway for ILS/Product Support Management success on any program.

#### **Course Outline:**

**The Concept of PSA and LPD** – introduces the concepts, theories and philosophies of the PSA process and how it is used to meet the requirements of the ILS/PSM organization for design, upgrade and off the shelf acquisition programs.

- History and background of PSA
- Lifecycle Logistics
- Different acquisition and sustainment strategies
- Cost of Ownership



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- Support planning and delivery
- Support infrastructures

**Establishing Supportability and Sustainment Requirements** – a detailed presentation of how supportability engineering must be an integral part of systems architecting and systems engineering to achieve User requirements. This lesson focuses on how an organization implements PSA during design or selection of a system and then provides through life support.

- Developing the Application Assessment
- Preparing the Intended Use/Capabilities Report
- Identifying and Understanding design attributes for supportability enhancement
- Establishing measurable supportability goals, thresholds and constraints
- Performance-based supportability
- Systems architecting and systems engineering processes
- Reliability, Maintainability and Testability engineering requirements
- Reliability centered maintenance
- Calculating and validating Availability requirements
- Testing system supportability
- Assuring supportability characteristics are in the specification.
- Recording the results in the LPD

**Implementing Requirements in the Design Solution** – the how, when, who and why of decision-making that must be made to achieve minimum supportability requirements.

- Implementing design decisions for supportability
- Procurement decisions for supportability
- Evolving design solutions
- Reliability, Maintainability and Testability engineering assessment
- FMEA/FMECA to RCM to testing to success
- Participating in design reviews
- Assessing design compliance
- Recording the results in the LPD

**Developing the Physical Logistics Support Package** – discussion of how a portion of the PSA process can also be used to identify, document and develop the physical logistics support package during the latter stages of system acquisition.

- Maintenance planning
- The physical logistics support infrastructure
- Identification of maintenance significant items
- Linking maintenance tasks into maintenance procedures
- Maintenance task analysis



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- Performing MTA
- Performing Task Validation
- Level of Repair Analysis
- Validating the final support package
- Recording the results in the LPD

**Logistics Data** – Documenting the results of PSA in a single logistic database

- Documenting results in the LPD
- Using the LPD
- Data Element Dictionary
- LPD Data Tables
- LPD Summary Reports
- LPD through life

**Developing The Support Solution** – Using the results of Maintenance Task Analysis as documented in the LPD to develop and deliver the support solution for a system for the DoD and for CLS/PBL.

- Initial Provisioning
- Maintenance documentation – IETM
- Training Needs Analysis – Training Courses
- Support equipment, test equipment, tools and TPSs
- Personnel requirements
- Facilities
- PHS&T

**ASD Specifications** - Implementing the ASD Specifications within the PSA Framework

- ASD S1000D
- ASD S2000M
- ASD S3000L
- ASD S4000P
- ASD S5000F
- ASD S6000T

**Assuring Support Through Life** – discussion of how the PSA process aids in identification and resolution or mitigation of potential long-term support shortfalls.

- Pre-fielding analysis
- Post production support analysis
- Obsolescence management (DMSMS)
- Disposal analysis



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- Technology evolution
- Pre-planned product improvement
- In-Service Field Feedback

**Supportability Assessment** – a step by step methodology to assess progress toward achieving supportability goals, thresholds and constraints.

- Pre-procurement strategies
- Design assessment
- Testing guidelines and implementation
- Physical resource assessment
- Acceptance testing
- In-service demonstrations
- In-service trend analysis

**PSA/LPD In-Service** – realizing the power of supportability in sustainment success

- Establishing measurable expectations
- Gathering and refining believable results
- Understanding the disconnects of integrated sustainment
- Continuous improvement through design change
- Continuous improvement through process change
- Lessons learned from successful programs and programs that failed

**Framework for Program Success** – identification of all Government and Contractor responsibilities for PSA success.

- The Life Cycle Sustainment Plan (LCSP)
- The Contract
- The Contractor's PSA Plan
- Role of the Product Support Manager
- Role of the Program Manager
- Everyone's role in Success

**Course Fee:** US\$1,095

**Register at:** [conference@log-mgmt.com](mailto:conference@log-mgmt.com)



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Product Support Analysis 27-30 March 2023 (\$1,095)

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## **The Provisioning Process and Supply Support** ***A Three-day Presentation***

Provisioning is a vital process that ultimately determines the materials that should be available to support maintenance of a system, and to achieve a required operational availability target for a hopefully reasonable cost. This course is a unique offering that is a guided tour through the “nuts and bolts” of the complete provisioning process. It encompasses every aspect of the process from start to finish. This course is the only one of its kind.

### **Course Content and Focus:**

A detailed presentation encompassing the relationships of technical disciplines within Product Support and how each contributes to the Provisioning process and Supply Support activities. Included in the course are in-depth discussions of reliability, maintainability, testability, reliability centered maintenance and availability and how these areas drive requirements for maintenance. Specific emphasis is placed on the provisioning process starting with requirements for spares and repair parts from Level of Repair Analysis and then moving to processes for determining quantities of spares required to support maintenance. Spares modeling using Poisson Distribution, Readiness Based Sparing and other methods are presented. The development of each individual data element required for generation of provisioning documentation to reflect the results of this process is presented in detail focusing on how data is used to feed the development of authorization documents such as the US Navy’s APLs and COSALs. Each data element required for the LSA-036 report, or similar CDRL deliverable document, is discussed including its source and interpretation. Alternative to the LSA-036 are presented that meet current DoD sparing requirements. The course also discusses how Configuration Management and design changes influence requirements for spares and repair parts, and how standardization and the DMSMS process address obsolescence. At the completion of this course students should have the knowledge necessary to function as a provisioning analyst on a contemporary acquisition program.



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**Course Outline:**

Concepts of Spares Requirements and Provisioning

- Definitions of Materials
- Initial Provisioning
- Re-provisioning
- Spares Management
- Supply Support
- Maintenance Planning
  - Maintenance and Sparing Philosophy
  - Maintenance and Sparing Concept
  - Maintenance and Sparing Plan

Integrated Product Support Elements

- Supply Support
- Support and Test Equipment
- Technical Documentation
- Training
- Facilities
- PHS&T
- Design Interface

Designing for Provisioning and Supply Support

- Design Reference Mission Profile
- Systems Engineering
- Design Engineering
- Reliability
- Maintainability
- Testability
- Accessibility
- Availability
- Standardization
- Parts Management (MIL STD 3018)
- DMSMS

Developing Support Solutions

- Maintenance Task Analysis
- Support Resource Documentation
- Spares Ranging



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- Pre-Provisioning Screening
- Level of Repair Analysis
- SMR Code Development
- NSN Assignment
- Maintainability/Supportability Demonstrations

### Spares Quantification

- Spares Modeling
- Poisson Distribution
- Readiness Based Sparing
- Sparing to Availability

### Provisioning Process

- Provisioning Requirements Statement (PRS)
- Provisioning Performance Schedule (PPS)
- Provisioning Guidance Conference
- Contracting (SOW/CDRL)
- Provisioning Data Delivery
- Provisioning Conference
- Spares Ordering and Delivery

### Provisioning Data and Documentation

- Provisioning Lists (PTD)
  - LLTIL,PPL, CBIL, TTEL, SFPPL, PCL, DCN and SPTD
- Provisioning Data Elements
  - (in depth discussion of each data element required for provisioning including data source, data application and data interpretation)

### Configuration Management

- Design Baselines
- Configuration Status Accounting
- Design Changes

### Spares Management

- The DoD Supply System
- Inventory Management
- In-Service Provisioning
- Product Life Cycle Support (PLCS)





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Example list of Standards/Specifications referenced during this course:

- TA STD 0017A
- MIL STD 3018
- MIL STD 1375
- MIL STD 1552
- MIL STD 1561
- MIL STD 3034
- MIL STD 1388-1A
- MIL STD 1388-2B
- MIL PRF 49506
- MIL HDBK 61
- SAE AS 1390
- MIL HDBK 1390
- GEIA STD 0007
- GEIA HDBK 0007
- TA HDBK 0007-1
- GEIA STD 0009
- EIA STD 836
- ISO 10303
- ISO 10007
- ASD S1000D
- ASD S2000M
- ASD S3000L

**Course Fee:** US\$895

**Registration:** [conference@log-mgmt.com](mailto:conference@log-mgmt.com)



## Registration Form

Name \_\_\_\_\_

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Company/Organization \_\_\_\_\_

Contact Telephone \_\_\_\_\_

Please register me for:

- The Provisioning Process and Supply Support  
4-6 April 2023 (\$895)
  - Early Bird Discount 10%
  - CLEP/SOLE Active Member Discount 10%

Payment Method:

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  - Expires \_\_\_\_\_
  - CVC \_\_\_\_\_
  - Billing ZIP/Post Code \_\_\_\_\_
- PayPal
  - Send invoice to (email): \_\_\_\_\_
- SF182 (USN/USMC) (attached)

Send completed registration form to:

Email: [conference@log-mgmt.com](mailto:conference@log-mgmt.com)

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