PIERIAN ACADEMY

Product Support Analysis for Maintenance Planning

Gain the instruction and practice to apply life cycle management processes to acquired systems, equipment and high-value physical assets. This introductory course provides training designed to provide an in-depth understanding of Product Supportability Analysis (PSA) disciplines as they relate to the five phases of Defense Acquisition Management System (DoDI 5000 Model). PSA 101 prerequisite recommended.

WHAT YOU GAIN

Upon completion, participants will be able to:

- Describe PSA integration within a systems engineering, integrated product team (IPT) environment
- Explain the PSA processes and the Logistics Management Information (LMI) that results from these analyses
- Apply critical PSA processes throughout the phases of acquisition and sustainment

WHO BENEFITS

This course is designed for:

- Logisticians, engineers, maintenance planners and program managers from novices to experienced professionals
- Anyone involved with performing/reviewing PSA
- Military, municipal and commercial sectors

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PSA for Maintenance Planning

This course provides 3 days of classroom instruction for a total of 24 training hours. The course incorporates instruction, demonstrations, and discussions supported by real world lessons learned and includes: training materials, lectures, supported by on-screen presentations, demonstrations, large group discussions, and a reference library of useful information and data.

This modular course has six instructional modules of varying lengths beginning with the introduction to Maintenance Planning and progresses through the remaining modules to provide a solid foundation of knowledge in today's current developments and requirements for Product Support Analysis. The course curriculum is provided below:

Unit One: Supportabilty in Design and Development

- Definition of Maintenance Planning
- Relationship between PSA and LPD
- Baseline Comparative System strategy
- Purpose of Analysis of Alternatives process
- Supportability design factors
- Failure Mode, Effects and Criticality Analysis (FMECA)
- Fault Tree Analysis (FTA)

Unit Two: Supportability Late in Development & Early Production

- Reliability Centered Maintenance (RCM)
- Preventive Maintenance (PM) tasks
- Support System Alternative
- Trade-Off Analysis
- Interchangeability and Replaceability Concepts
- LORA Process
- MTA Process
- Proactive System Monitoring Metrics
- Purpose of Physical Configuration Audit (PCA)

Unit Three: LSA-056/LSA-019/ LSA-024 Connection

- Common data elements among the LSA-056, LSA-019, and LSA-024
- Content of the LSA-019 and LSA-024 reports

Unit Four: Contracting for Product Support Analysis and Logistics Product Data

- Introduction to Logistics Product Data (LPD)
- Statement of Work (SOW)
- Contract Data Requirements List (CDRL)
- Data Item Description (DID)
- Contracting best practices

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