Maintenance Task Analysis Course

Maintenance Task Analysis (MTA) is critical to determining the resources required to ensure optimal supportability of operational systems. The MTA Course provides participants with the instruction and practical experience needed to determine resource requirements for acquired systems, equipment and high-value physical assets. This course offers an overview of Task Analysis processes, using guidance from the GEIA-STD-0007, GEIA-HB-0017, and MIL-HDBK-502A. The course also provides insight into the role of MTA within the Defense Acquisition Management System (DoDI 5000 Model). As an introductory course, PSA 101 prerequisite recommended.

WHAT YOU GAIN

Upon completion, participants will be able to:

- Describe the role of MTA within an integrated product team (IPT) environment
- Identify resource requirements that result from the MTA process
- Apply MTA for new and fielded operational systems

WHO BENEFITS

This course is designed for:

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

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MTA course outline

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 Maintenance Task Analysis. The course curriculum is provided below:

Unit One: Supportability 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 & Replaceability Concepts
- LORA Process
- MTA Process
- Proactive System Monitoring Metrics
- Purpose of Physical Configuration Audit (PCA)

Unit Three: Intro to Maintenance Task Analysis Process
- Main inputs for MTA
- MTA/FMECA/RCM related data
- MTA related documents
- MTA process steps
- MTA Ground Rules & Assumptions

- Task Code generation
- MTA Authoring Guidelines
- What MTA provides
- Resources considered in MTA
- Tasks and Subtasks for MTA

Unit Four: 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
- Review guide for LSA-019 and LSA-024
- Quality Assurance requirements for the LSA-024

Unit Five: Maintenance Planning Data Sources in O&S
- Data sources in the Operations & Support (O&S) phase and how they relate to the maintenance plan
- PSA/LPD during O&S

Unit Six: Logistics Contracting
- Introduction to Logistics Product Data (LPD)
- Data Item Descriptions (DID)
- Data generation by acquisition phase
- Contracting best practices

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