



**Continuously Pushing the Limits of Innovation, Technology & Conventional Thinking**

## 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 and the GEIA-HB-0017. The course also provides insight into the role of MTA within the Defense Acquisition Management System (DoDI 5000 Model). As an introductory course, there are no prerequisite requirements to attend.

### MTA Course

#### What You'll 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 critical MTA for new and fielded operational systems

#### Course Design

The course provides 3-days of classroom instruction for a total of 24 training hours. Subject matter experts introduce concepts, reinforce learning, engage participants in the learning process and include:

- Training materials
- Lectures, supported by on-screen presentations
- Case study analyses
- Demonstrations
- Practical applications

#### 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

#### Capstone Exercises

The course offers participants the opportunity to apply MTA processes in a series of Capstone Exercises that reinforce the instructional material. These exercises are performed within collaborative groups to facilitate interaction with other participants.

Andromeda Systems Incorporated (ASI) is an ISO-9001:2008 certified small business, headquartered in Virginia Beach, Virginia, with offices across the United States. ASI provides tools and services to Fleet/Asset Owners and Program Managers to gain critical insight and system improvements to optimize operations, make better business decisions and achieve measurable cost savings.



**[www.androsysinc.com](http://www.androsysinc.com)**  
**904.637.2020**



## MTA Course

This course is comprised of eight units; unit one begins with an overview of the Product Support Analysis (PSA) process within the DoD. The next two units introduce the participant to Failure Mode, Effects and Criticality Analysis (FMECA), Reliability-Centered Maintenance (RCM), and MTA. The fourth unit is centered on practical application of MTA, using web based task analysis software. The remaining units provide the participant with a review of the MTA Report (LSA-019), insightful information on the process of contracting for Logistics Product Data (LPD) and real-world examples of how MTA is converted into maintenance technical publications that are utilized by the maintainer.

### MTA Course Outline

#### Unit One: Supportability Overview

- Flow of information within the PSA
- PSA processes

#### Unit Two: Introduction to FMECA, RCM and Level of Repair Analysis (LORA)

- FMECA
- RCM
- LORA

#### Unit Three: Introduction to MTA

- Purpose of MTA
- Inputs/outputs for MTA
- Product support packages
- Data element requirements

#### Unit Four: Task Analysis Software

- Intro to task analysis software

#### Unit Five: Review of a Task Analysis Report (LSA 019)

- Purpose of the MTA Report
- Reviewing a MTA Report for
  - Manpower requirements
  - Skills and training requirements
  - Support equipment requirements
  - Supply support requirements

#### Unit Six: Contracting for LPD

- Introduction to LPD
- Data Item Descriptions (DID)
- Data generation by acquisition phase
- Contracting best practices

#### Unit Seven: Maintenance Planning, Scheduling and Execution (MPS&E)

- Dynamic maintenance scheduling
- Dynamic maintenance optimization
- Proactive system monitoring

#### Unit Eight: Course Summary



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**904.637.2020**

Corporate Headquarters: 615 Lynnhaven Parkway | Suite 104 | Virginia Beach, VA 23452  
Offices: Crystal City | Havelock | Jacksonville | Patuxent River | San Diego