



DEFENSE ACQUISITION UNIVERSITY

LOG 211 - Supportability Analysis

130325

Course Learning/Performance Objectives followed by its enabling learning objectives on separate lines if specified.

1	Maintain Product Support across a system's life cycle through application of Supportability Analysis process in formulating and refining the Life-Cycle Sustainment Plan
	Relate supportability, the Integrated Product Team, and the Life Cycle Logistician, to the Acquisition Life Cycle Process
	Analyze the evolution of the Initial Capabilities Document/Capability Development Document and its role in product supportability
	Analyze the importance of the Life Cycle Sustainment Plan in the evolution of the product support strategy across the acquisition life cycle.
	Examine the continuous/periodic review of and updates to the Life Cycle Sustainment Plan and other documents
	Analyze the impact of supportability on both design and sustainment domains
2	Analyze Measures of Effectiveness to ensure a supportable design
	Distinguish the relationships between Measures of Effectiveness, Key Performance Parameters/Key System Attributes, Measures of Performance, Measures of Suitability and Technical Performance Measures
	Analyze the JCIDS Sustainment Measures of Effectiveness and their maturity over the system life cycle
	Analyze candidates for supportability Technical Performance Measures
	Analyze achievable sustainment candidates for promotion to capability and contractual design documents
	Establish evaluation criteria for each sustainment metric to validate design performance
Monitor sustainment metrics to assure the system meets supportability design criteria	
3	Generate Logistics Product Data/GEIA-STD-0007 Database
	Analyze the impact of Logistics Product Data and the database on Supportability and Supportability Analysis
	Examine steps to initialize and exchange Logistics Product Data
	Examine operations an LCL performs to validate a system's product structure and LPD
4	Conduct Reliability & Maintainability (R&M) Allocation, Modeling, Prediction, and Analysis
	Relate R&M Allocation, Modeling, Prediction and Analysis to Supportability and Supportability Analysis
	Distinguish requirements and other data sources to be used for Supportability Analysis in R&M processes
	Apply the R&M Allocation, Modeling, Prediction and Analysis process to Supportability
5	Examine Failure Modes, Effects and Criticality Analysis (FMECA) and Fault Tree Analysis (FTA) processes and their impact on Supportability
	Distinguish the differences between Failure Modes, Effects and Criticality Analysis (FMECA) and Fault Tree Analysis (FTA)
	Analyze the impact of FMECA/FTA on Supportability and Supportability Analysis
	Examine FMECA/Fat planning considerations, analysis tools, and data inputs
	Examine the FMECA analytical process and its steps
	Examine the FTA analytical process and its steps
6	Conduct Software Supportability Analysis
	Relate Software Supportability Analysis to Supportability and Supportability Analysis
	Examine Software Supportability Analysis
	Compare the information identified through the Software Supportability Analysis with the data contained in the Logistics Product Data/Database
7	Examine Reliability Centered Maintenance (RCM) analysis processes and contribution to Supportability and Supportability Analysis
	Analyze the impact of Reliability Centered Maintenance (RCM) on Supportability and Supportability Analysis
	Examine RCM Analysis planning considerations, analysis tools and data inputs
	Examine the RCM analytical process and its steps
	Analyze failure maintenance strategy options resulting from RCM Analysis
	Relate RCM to the Condition Based Maintenance Plus (CBM+) process
	Examine diagnostic, prognostic and health management capabilities in the CBM+ process and their impact on Supportability and Supportability Analysis
Examine reporting requirements and communication paths for managing RCM Analysis results	



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8	Conduct a Maintenance Task Analysis
	Relate Maintenance Task Analysis (MTA) to Supportability Analysis
	Relate Maintenance Task Analysis (MTA) to Level of Repair Analysis
	Compare the data contained in the Logistics Product Data with evaluations performed in the Maintenance Task Analysis
	Relate Maintenance Task Analysis (MTA) to Product Support Analysis
	Relate Maintenance Task Analysis (MTA) to Product Support Package
	Relate Maintenance Task Analysis (MTA) to Reliability & Maintainability Allocation, Modeling, Prediction and Analysis
	Relate Maintenance Task Analysis (MTA) to Failure Modes, Effects and Criticality Analysis and Fault Tree Analysis
	Relate Maintenance Task Analysis (MTA) to Maintenance Concept
Analyze the impact of Maintenance Task Analysis (MTA) on Supportability and Supportability Analysis	
9	Conduct Level of Repair Analysis
	Relate the LORA to Supportability and Supportability Analysis
	Relate the LORA to the Product Support Analysis
	Relate the LORA to the Product Support Package
	Relate the LORA to the Maintenance Concept
	Compare system design elements (reliability/availability, component attributes) with the sustainment factors evaluated as part of the LORA (reliability/availability, component attributes, manpower, equipment/facilities, administrative activities)
Compare the data contained in the Logistics Product Database with the trade-off criteria used to make LORA determinations	
10	Conduct Reliability & Maintainability (R&M), Availability, Cost/Affordability Trade-off Analysis
	Relate Reliability & Maintainability (R&M), Availability, Cost/Affordability Trade-off Analysis to Supportability and Supportability Analysis
	Relate Affordability and Should Cost to Trade-Off Analyses within the context of Better Buying Power
	Apply Reliability & Maintainability (R&M), Availability, Cost/Affordability Trade-off Analysis
Identify key inputs for updating the Radio #1 LORA	
11	Recognize the process and impact of Supportability Design Reviews
	Relate Supportability Design Reviews to Supportability and Supportability Analysis
	Examine the Systems Engineering (SE) design review process and milestones
	Relate design review criteria to Supportability
	Analyze system design compliance to requirements
Differentiate the impact of Supportability Design Reviews on Supportability and Supportability Analysis	
12	Evaluate Suitability in terms of supportability and adequacy of Product Support
	Relate Suitability to Supportability Analysis
	Relate Test and Evaluation/Supportability Demonstration to system design, Supportability, and Product Support
	Evaluate Product Support Capability Outcomes from the Supportability Demonstration
	Assess the impact of Supportability Demonstration on Supportability and Supportability Analysis
Distinguish the impact and provide remediation measures when the LOG Demo results are deemed not to meet Supportability requirements	
13	Recognize the critical analytical processes necessary for Post Fielding Sustainment
	Relate Post-Fielding Sustainment to Supportability and Supportability Analysis
	Examine the post-fielding analytical process for continuous assessment of sustainment adequacy
	Examine major factors impacting Supportability adequacy
Analyze the impact of post-fielding analysis on Supportability and Supportability Analysis	