



# DEFENSE ACQUISITION UNIVERSITY

## LOG 200 Intermediate Acquisition Logistics, Part A

100423

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

<b>1</b>	<p><b>Identify the key policies, regulations, and guidance that influence the definition of supportability objectives and how they apply to the life cycle logistician.</b></p> <p>Identify the three major DoD decision support systems that influence supportability of weapon systems.</p> <p>Recognize the two fundamental influences on support concepts and how they impact supportability requirements.</p> <p>Identify the precepts for defining supportability objectives.</p> <p>Identify the roles of the oversight organizations that are involved in the JCIDS process.</p>
<b>2</b>	<p><b>Differentiate between the roles of the program manager's office and other organizations and/or groups in the process of defining supportability objectives.</b></p> <p>Recognize the responsibilities of the JROC, JCB, FCBs, DAB, and ITAB organizations.</p> <p>Recognize the responsibilities of the program manager and LCL in defining supportability objectives.</p> <p>Identify the stakeholders in the Pre-Materiel Solution Analysis phase and their major supportability concerns.</p> <p>Define the TLCSM concept.</p>
<b>3</b>	<p><b>Identify the LCL's role in the Joint Capabilities Integration &amp; Development System (JCIDS) process in developing support strategy goals and documentation.</b></p> <p>Identify the three principles that form the foundation of the JCIDS.</p> <p>Recognize LCL's role in the JCIDS process and how the LCL helps develop support strategy goals.</p> <p>Identify factors the LCL should include in the analytical basis of the supportability objectives.</p> <p>Identify various support elements the LCL will use to define supportability objectives.</p>
<b>4</b>	<p><b>Identify the technical activities the Life Cycle Logistician will have to perform to define the supportability objectives.</b></p> <p>Recognize potential maintenance concepts.</p> <p>Identify Service specific logistics policies.</p> <p>Recognize Statutory or Regulatory guidance.</p> <p>Define Reliability and Maintainability parameters.</p> <p>Define Operations and Support costs.</p> <p>Define Readiness objectives.</p>
<b>5</b>	<p><b>Identify the various metrics that affect the definition of supportability objectives and how they are used.</b></p> <p>Identify the types of metric categories used in defining support objectives.</p> <p>Identify the JROC-established mandatory Key Performance Parameter (KPP) and two Key Systems Attributes (KSAs) relating to Life Cycle Sustainment.</p> <p>Define Availability, Materiel Reliability, Ownership Cost and Mean Downtime.</p> <p>Identify the appropriate mathematical formulas for Availability, Materiel Reliability, Ownership Cost and Mean Downtime.</p> <p>Identify the characteristics of metrics that effect the definition of supportability objectives.</p>
<b>6</b>	<p><b>Identify how the key policies, regulations, and guidance influence the evaluation of product support capabilities.</b></p> <p>Identify the key policies, regulations, and guidance that influence the evaluation of product support capabilities.</p> <p>Identify the three major DoD decision support systems that influence the evaluation of product support capabilities.</p> <p>Define product support.</p> <p>Recognize how the LCL develops and documents a product support strategy for sustainment and continuous improvement.</p>
<b>7</b>	<p><b>Differentiate between the roles of the program manager's office and other stakeholders in evaluating product support capabilities.</b></p> <p>Identify the roles of outside organizations involved in evaluating product support.</p> <p>Identify the key support areas and guiding principles that are used to develop product solutions.</p> <p>Identify the two key oversight authorities.</p> <p>Recognize product support plan documentation and what each document addresses.</p> <p>Recognize the relationship between focused logistics and product support capabilities.</p> <p>Identify the Life Cycle Logistician's responsibilities in evaluating the product support function.</p>



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8	<p><b>Identify the LCL's role in the management processes associated with evaluating product support capabilities that include: analysis of support alternatives, systems operational effectiveness (SOE), and market research.</b></p> <p>Identify the LCL's role in the development of Analysis of Alternatives (AoA).</p> <p>Identify the LCL's role in affordable system operational effectiveness.</p> <p>Identify the LCL's role in market research and how it is a valuable tool.</p> <p>Recognize commercial support benefits to the DoD and how they are assessed.</p>
9	<p><b>Identify the LCL's role in the technical activities associated with evaluating product support capabilities, including systems engineering, transitioning JCTDs, and ensuring open systems/interoperability.</b></p> <p>Identify the LCL's role in systems engineering.</p> <p>Recognize the two components of the systems engineering process and the role the LCL plays in each.</p> <p>Identify the LCL's role in JCTD management.</p> <p>Define open systems, open standards and interoperability.</p> <p>Recognize the five principles of a Modular Open Systems Approach (MOSA).</p> <p>Identify the benefits of MOSA to supportability.</p>
10	<p><b>Identify life cycle sustainment metrics that will be used in the evaluation of product support capabilities.</b></p> <p>Identify the three key attributes that sustainment metrics should possess.</p> <p>Identify the system level sustainment metrics mandated by DoD policy.</p> <p>Identify in which key program documents produced at the end of the Materiel Solution Analysis phase sustainment metrics should be included.</p>
11	<p><b>Identify the key policies, regulations, and guidance that influence the development of product support strategy, and how they apply.</b></p> <p>Identify the key policies, regulations, and guidance that influence the Life Cycle Logistician (LCL) as they pertain to the development of initial product strategy.</p> <p>Identify the legal and contractual requirements that influence the product support strategy development.</p> <p>Recognize the legal and regulatory elements, such as contractual relationships and focused logistics and how those elements shape the product support strategy.</p>
12	<p><b>Differentiate between the roles of the program manager's office and other organizations and/or groups in developing the initial product support strategy.</b></p> <p>Identify the various roles that external organizations play in developing an initial product support strategy.</p> <p>Identify the key elements of the product support strategy.</p> <p>List the guidelines the LCL should consider when developing the product support strategy.</p> <p>Recognize the principles of continuous process improvement as they pertain to the product support strategy.</p> <p>Identify risk management and contracting strategies as they pertain to the product support strategy.</p>
13	<p><b>Identify the LCL's role in the management processes associated with developing the initial product support strategy, to include: preparing or assessing logistics requirements in the capability development document (CDD); defining logistics test points in the TEMP; and integrating the initial product support strategy with the acquisition strategy.</b></p> <p>Describe characteristics and use of the capability development document (CDD).</p> <p>Identify what logistics information should be documented in the Test and Evaluation Master Plan (TEMP).</p> <p>Define Logistics Test Points as they relate to product supportability objectives.</p> <p>Identify the LCL's role in the definition of Logistics Test Points.</p> <p>Recognize how the Acquisition and Support Strategies are integrated with the initial product support strategy and the role the LCL will play in that integration.</p>
14	<p><b>Identify the LCL's role in the technical activities associated with developing initial product support strategies, to include: using modeling and simulation to reduce technology risk and to increase reliability and maintainability.</b></p> <p>Given a situation, identify the correct technology readiness level.</p> <p>Define the types of simulation and the Verification, Validation, &amp; Accreditation (VV&amp;A) process.</p>



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	Identify modeling and simulation's methods and challenges related to improvement of system reliability and maintainability.
<b>15</b>	<b>Identify life cycle metrics and how they are used during the Technology Development Phase.</b> Identify in which key program documents produced at the end of the Technology Demonstration phase sustainment metrics should be used. Identify essential supportability key performance parameters (KPPs) Identify essential characteristics of key performance parameters (KPPs). Identify the steps involved in developing supportability KPPs.
<b>16</b>	<b>Identify the key policies, regulations, and guidance that influence the creation of a Life Cycle Sustainment Plan (LCSP), and how they apply to the life cycle logistician (LCL).</b> Identify the key policies, regulations, and guidance that influence the creation of a Life Cycle Sustainment Plan, and how they apply to the LCL.
<b>17</b>	<b>Differentiate between the roles of the program manager, LCL and other individuals and/or organizations in creating an LCSP.</b> Identify the LCL's role in utilizing various outside organizations to finalize a Life Cycle Sustainment Plan. Identify the overarching principles that the LCL should use to govern development of the Life Cycle Sustainment Plan. Identify the LCL's role in creating and finalizing the Life Cycle Sustainment Plan.
<b>18</b>	<b>Identify the LCL's role in the management processes associated with developing an LCSP.</b> Identify the sustainment activities/processes the LCL focuses on during the EMD phase. Identify how the Life Cycle Sustainment Plan evolves during the EMD phase. Describe the sections of a Life Cycle Sustainment Plan. Identify the LCL's role in implementing human systems integration (HSI) to enhance supportability. Identify the three types of requirements that are addressed in human factors engineering. Identify the LCL's role and risks involved in defining a product support strategy for evolutionary acquisition (where employed).
<b>19</b>	<b>Identify the LCL's role in the technical activities associated with developing an LCSP, including the Sustainment Implementation Plan.</b> Identify the LCL's role in defining support-related performance and acceptance criteria for modeling and simulation (M&S) and test and evaluation (T&E). Identify the LCL's role in refining logistics support considerations based on the Critical Design Review.
<b>20</b>	<b>Identify metrics considerations that guide the process of defining the metrics used in the Life Cycle Sustainment Plan.</b> Identify the types of metrics that apply to creating a Life Cycle Sustainment Plan. Recognize the metrics management requirements. Identify the four perspectives in a "Balanced Scorecard" approach to metrics.
<b>21</b>	<b>Identify the key policies, regulations, and guidance that influence the demonstration of planned product support capability.</b> Identify the key policies, regulations, and guidance that influence the LCL during the demonstration of product support capability. Identify the life cycle logistician's (LCL) role in demonstrating a product support plan compliant with DoD Directives and Instructions and public law.
<b>22</b>	<b>Differentiate between the roles of the program manager (PM), life cycle logistician (LCL) and other individuals and/or organizations in the process of demonstrating product support capabilities.</b> Recognize the responsibilities of Functional Capabilities Boards (FCB). Identify the acquisition priority sequence the LCL will follow when determining the products and services to include in a product support plan. Recognize key logistics support providers within the DoD that the LCL should utilize to support the product. Identify the three modes of transportation in the Defense Transportation System (DTS). Identify alternative supply chain management (SCM) strategies that may be incorporated into the product support plan.
<b>23</b>	<b>Identify the management processes the life cycle logistician (LCL) uses when demonstrating product support capability, including fully defining/refining the product support strategy and refining logistics test points in the Test and Evaluation Master Plan (TEMP).</b> Identify areas that may require the Life Cycle Logistician (LCL) to refine/change the product support strategy. Identify the characteristics of each support element in the product support strategy portion of the acquisition strategy. Identify the major logistics test points in the Test and Evaluation Master Plan (TEMP).



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	Recognize the steps in refining the logistics test points in the Test and Evaluation Master Plan (TEMP).
<b>24</b>	<b>Identify the technical activities associated with demonstrating product support capability, including collecting and evaluating system performance, cost and maintenance data to determine the need for changes to system configuration; and demonstrating acceptable interoperability and operational supportability.</b>
	Identify the life cycle logistician (LCL) activities associated with collecting and analyzing system performance and maintenance data.
	Recognize the analyses that are used to evaluate system performance and maintenance data, to include: failure mode effects and criticality analysis (FMECA), fault tree analysis (FTA), maintainability analysis and prediction (MAP), and level of repair analysis (LORA).
	Define reliability-centered maintenance (RCM).
	Recall the structures of reliability-centered maintenance (RCM).
	Recognize the elements of interoperability and operational supportability.
<b>25</b>	<b>Identify the kinds of metrics that are defined and used during demonstration of planned product support capabilities.</b>
	Identify the guidelines the life cycle logistician (LCL) should follow when including metrics in the product support plan.
	Identify the types of metrics used in tracking product support quality.
	Recognize the challenges in developing and using metrics.
	Identify the basic components of benchmarking in order to establish goals for metrics.
<b>26</b>	<b>Identify the techniques available to the Life Cycle Logistician (LCL) in cost estimating for logistics funding requirements.</b>
	Identify three cost estimating techniques used to estimate logistics funding requirements.
	Identify the steps in the logistics cost analysis process.
<b>27</b>	<b>Recognize the PPBE process as the source of financial resources for the LCL and the importance of PPBE in every phase of a project life cycle.</b>
	Recall the primary purpose of each of the three phases of the PPBE process.
	Identify the interrelationship between PPBE and the Defense Acquisition System.
	Identify the purpose, contents and three major dimensions of the Future Years Defense Program (FYDP).
	Identify the purpose of Major Force Programs and Program Elements and their relationship to the Future Years Defense Program.
<b>28</b>	<b>Describe the Planning Phase of the PPBE process.</b>
	Identify the principal players, major activities, timeline, and primary inputs and products of the Planning Phase of PPBE.
<b>29</b>	<b>Describe the Programming Phase of the PPBE process.</b>
	Identify the principal players, major activities, timeline, and primary inputs and products of the Programming Phase of PPBE.
<b>30</b>	<b>Describe the Budgeting Phase of the PPBE process.</b>
	Identify the principal players, major activities, timeline, and primary inputs and products of the Budgeting Phase of PPBE.
<b>31</b>	<b>Identify the kinds of PPBE issues an LCL may face with regards to budget funding.</b>
	Recognize reasons that acquisition programs may lose funding during the PPBE process.
	Recognize the significant issues that concern the OSD Budget Analyst during his/her review of budget justification documentation.
	Recall the characteristics of a good reclama or impact statement.