



# DEFENSE ACQUISITION UNIVERSITY

## LOG 102 Systems Sustainment Management Fundamentals

110110

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

<b>1</b>	<p><b>At the end of this module, you will be able to identify the organizations responsible for the logistics mission in DoD.</b></p> <p>At the end of this lesson you will be able to describe the overall DoD logistics process as it evolved historically.</p> <p>At the end of this lesson you will be able to describe the legal and policy guidance applicable to the DoD logistics process.</p> <p>At the end of this lesson you will be able to describe the overall mission and objectives of the DoD logistics community and the process areas over which logistics organizations have oversight and exhibit caution responsibility.</p> <p>At the end of this lesson you will be able to identify the organizational structure and related responsibilities of the members of the DoD logistics community.</p> <p>At the end of this lesson you will be able to identify the logistics activities that are part of military operational organizations both within CONUS and overseas.</p>
<b>2</b>	<p><b>At the end of this module, you will be able to identify the major policies, concepts, and guiding direction that are expected to shape the DoD logistics process for the foreseeable future.</b></p> <p>At the end of this lesson you will be able to list the high-level concepts devised by senior management in the Executive Branch and Congress in response to changing world situations.</p> <p>At the end of this lesson you will be able to identify high-level initiatives that are being pursued by the Joint Staff and Military Services in response to changing world events and driving factors both within and outside the Government.</p> <p>At the end of this lesson you will be able to identify the major challenges facing logisticians and some of the approaches for overcoming those challenges in achieving the goals set by Senior management.</p>
<b>3</b>	<p><b>At the end of this module, you will be able to identify the policies and procedures governing the justification, approval, and execution of support funding.</b></p> <p>Describe the range of logistics areas requiring funding and financial management and the related basic organizational responsibilities</p> <p>List the principal logistics funding requirements for each acquisition milestone and life cycle phase.</p> <p>Describe the overall process for planning, presenting, obtaining approval for, and executing logistics funds.</p> <p>Describe how the Defense Working Capital Fund serves as a mechanism for justifying and managing logistics funding.</p> <p>Describe approaches for developing a business case for logistics funding.</p>
<b>4</b>	<p><b>At the end of this module, you will be able to describe Supply Chain Management's concept and evolution.</b></p> <p>At the end of this lesson you will: recognize the five forces of change in the business sector and their influence on the evolution of SCM; recognize the three distinct phases of SCM evolution; and identify a key characteristic of the SCM concept.</p> <p>At the end of this lesson you will be able to recognize a principle of supply chain management practice.</p>
<b>5</b>	<p><b>At the end of this module, you will be able to recognize the definitions of SCM and the different perspectives of how SCM can be viewed.</b></p> <p>At the end of this lesson you will be able to describe a supply chain.</p> <p>At the end of this lesson you will be able to identify the three different groups of perspectives of supply chain management.</p> <p>At the end of this lesson you will be able to identify the four process cycles that may be found in supply chains.</p>
<b>6</b>	<p><b>At the end of this module, you will be able to recognize the effects of product demand and material supply approaches in selecting the appropriate supply chain strategy to meet performance objectives.</b></p> <p>At the end of this lesson you will be able to recognize the general supply chain structure.</p> <p>At the end of this lesson you will be able to define the fundamental driver of supply chain performance in organic and commercial environment.</p> <p>At the end of this lesson you will be able to define a supply chain strategy and its relationship to the goals of the business strategy.</p> <p>At the end of this lesson you will be able to explain the concept of "strategic fit" and the factors to be considered by a business in arriving at a supply chain strategy that achieves strategic fit.</p> <p>At the end of this lesson you will be able to define several of the major obstacles to achieving a supply chain strategic fit.</p>
<b>7</b>	<p><b>At the end of this module, you will be able to identify the reasons for business reference models and the major supply chain management processes that are part of the SCOR model.</b></p> <p>At the end of this lesson you will be able to identify the rationale (the reasons) for business reference models.</p> <p>At the end of this lesson you will be able to identify the components of the SCOR model.</p> <p>At the end of this lesson you will be able to use the SCOR model to describe the components of a DoD supply chain.</p>
<b>8</b>	<p><b>At the end of this module, you will be able to identify the planning elements and best practices in Supply Chain Management.</b></p>



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	At the end of this lesson you will be able to describe the planning structure of a supply chain management system.
	At the end of this lesson you will be able to identify the challenges associated with planning for the components of supply chain network design.
	At the end of this lesson you will be able to describe the flow of material and information processes.
	At the end of this lesson you will be able to recognize exemplary best practices in terms of potential application to DoD for planning the supply chain.
<b>9</b>	<b>At the end of this module, you will be able to identify materiel requirements concepts and materiel retention issues.</b>
	At the end of this lesson you will be able to identify the components of the cost of inventory.
	At the end of this lesson you will be able to identify material requirements determination concepts.
	At the end of this lesson you will be able to recognize some of the major inventory management planning processes.
	At the end of this lesson you will be able to identify materiel retention issues and implications.
<b>10</b>	<b>At the end of this module, you will be able to identify the key elements in the effective development and implementation of a sourcing strategy.</b>
	At the end of this lesson you will be able to recognize the sourcing strategy (also referred to as the procurement or purchasing strategy) development process and a key strategy segmentation tool known as the "portfolio analysis."
	At the end of this lesson you will be able to identify the most common types of sourcing strategies.
	At the end of this lesson, you will be able to recognize the four phases of buyer-supplier relationships and the business interfaces that support them.
	At the end of this lesson you will be able to recognize key practices in the management of supplier sourcing that have evolved in recent years.
<b>11</b>	<b>At the end of this module, you will be able to identify the role of Performance-Based Logistics (PBL) in transforming the sustainment process to improve future logistics support of the DoD warfighter.</b>
	At the end of this lesson you will be able to define the importance of Performance-Based Logistics (PBL) as an important tool for cutting weapon system and component life-cycle costs and improving their availability and performance.
	At the end of this lesson you will be able to identify where PBL fits into a weapon system's life cycle.
	At the end of this lesson you will be able to identify the major considerations associated with organizing and initiating a PBL arrangement.
	At the end of this lesson you will be able to recognize the critical success factors for structuring effective PBL business relationships.
	At the end of this lesson you will be able to recognize what tasks must be accomplished to implement performance requirements.
<b>12</b>	<b>At the end of this module, you will be able to identify the role of maintenance and repair in the DoD supply chain.</b>
	At the end of this lesson you will be able to identify the structure and resources associated with the maintenance/repair process.
	At the end of this lesson you will be able to describe the major maintenance philosophies, approaches, and processes.
	At the end of this lesson, you will be able to: Identify where to position inventory in the DoD supply chain to support the maintenance and repair activities, Identify the processes used for determining the amount of inventory to stock.
<b>13</b>	<b>At the end of this module, you will be able to identify the potential role of public-private partnering for depot maintenance and other logistics support in a Performance-Based Logistics (PBL) environment.</b>
	At the end of this lesson you will be able to identify why the DoD is pursuing public-private partnering opportunities.
	At the end of this lesson you will be able to recognize the relationship between Performance-Based Logistics (PBL) and depot maintenance partnering.
	At the end of this lesson you will be able to define depot maintenance and other logistics support partnering.
	At the end of this lesson you will be able to identify the benefits of depot maintenance public-private partnering.
	At the end of this lesson you will be able to identify the types of arrangements in Public-Private partnering.
	At the end of this lesson you will be able to identify what circumstances and teaming arrangements are prerequisite to a public-private partnership.
<b>14</b>	<b>At the end of this module, you will be able to recognize the major process relationships between maintenance and supply that are essential for effective and efficient logistics support.</b>
	At the end of this lesson you will be able to identify the major interfaces between maintenance and supply in the DoD planning, programming, and budgeting processes.
	At the end of this lesson you will be able to describe the critical maintenance and supply interfaces in the program execution process.
	At the end of this lesson you will be able to identify some commercial best practices that have potential to improve DoD maintenance-supply interfaces.
	At the end of this lesson you will understand the concept of 'resetting the force' and its impact on the services.



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<b>15</b>	<b>At the end of this module, you will be able to recognize the importance of considering field-level maintenance in acquisition planning.</b>
	When you have completed this lesson, you will understand a number of field-level maintenance characteristics including: • what it is • where it is accomplished • examples of assets that are maintained • the processes involved • and how field-level maintenance relates to both depot-level maintenance and other important sustainment functions
	At the end of this lesson you will be able to understand DoD and service policy guidance associated with maintenance.
	At the end of this lesson you will be able to identify the services' maintenance structures, number of maintainers, primary skill sets, and the numbers of intermediate level activities.
<b>16</b>	<b>At the end of this module, you will be able to define the functions of order fulfillment within the supply chain and available issues and solutions.</b>
	At the end of this lesson you will be able to define order fulfillment and the order cycle, and describe the major activities within the order cycle.
	At the end of this lesson you will be able to identify the principal challenges to order cycle improvement and describe some approaches for addressing those challenges.
	At the end of this lesson you will be able to recognize the new challenges in order cycle management introduced by e-commerce and some of the approaches taken to address these challenges.
<b>17</b>	<b>At the end of this module, you will be able to identify the range of alternatives in order fulfillment, transport services network design, and distribution.</b>
	At the end of this lesson, you will have a basic foundation in the functions and organizations that perform distribution tasks and that have involvement in "End-to-End Distribution," and the "Distribution Process Owner" initiative.
	At the end of this lesson you will have a general understanding of the "End-to-End distribution vision," the reasons it is important, and how acquisition logisticians should consider this vision as part of their responsibilities.
	At the end of this lesson you will look at the major changes in the mix for reaching supply chain transparency and more effective command and control over its processes. You'll look at technology goals and finish with assessments of what acquisition logisticians need to consider in formulating life cycle support for their project teams.
<b>18</b>	<b>At the end of this module, you will be able to identify logistics data and data management activities needed to support the warfighter.</b>
	At the end of this lesson you will be able to recognize types of logistics data needed to support the war fighter.
	At the end of this lesson you will be able to identify logistics data management activities across the acquisition life cycle.
<b>19</b>	<b>At the end of this module, you will be able to describe representative data collection, information and communication technologies and their role in facilitating the purchase, movement, repair and storage of material.</b>
	When you have completed this lesson, you will be able to identify the importance of inventory visibility of material movement and storage.
	At the end of this lesson you will be able to describe examples of maintenance management technology with potential DoD application.
	At the end of this lesson you will be able to recognize the various asset identification and tracking technologies.
	At the end of this lesson you will be able to describe the impact of an e-business environment on supply chain procurement and collaboration practices.
	At the end of this lesson you will be able to describe examples of supply chain technology modernization tools.
	At the end of this lesson you will be able to describe the overall DoD approach to logistics systems modernization.
<b>20</b>	<b>At the end of this module, you will be able to identify key metrics that permit tracking and management of supply chain performance.</b>
	When you have completed this lesson, you will be able to identify the key information necessary to effectively manage a supply chain.
	At the end of this lesson you will be able to identify key performance attributes and associated metrics that can be used to measure a supply chain.
<b>21</b>	<b>At the end of this module, you will be able to identify the concepts and current practices of supply chain quality management.</b>
	When you have completed this lesson, you will be able to recognize the most significant and current supply chain quality management strategies.
	At the end of this lesson you will be able to identify the content and application of the most widely accepted quality strategies.
	At the end of this lesson you will be able to identify the quality strategies that support internal operations or supplier quality management including partnering, supplier selection, qualification, and certification.



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<b>22</b>	<p><b>At the end of this module, you will be able to identify environmental requirements, issues and impacts on DoD logistics processes and organizations.</b></p> <p>At the end of this lesson you will be able to identify at least one environmental concern that arises in each traditional logistics function.</p> <p>At the end of this lesson you will be able to identify environmental policy and regulatory guidance applicable to logistics functional areas.</p> <p>At the end of this lesson you will be able to identify the long-term relationships between resolving environmental problems and implementation of supply chain management in DoD logistics.</p> <p>At the end of this lesson you will be able to identify environmentally-related education and training requirements for DoD logistics personnel.</p> <p>At the end of this lesson you will be able to identify logistics-related environmental safety and occupational health requirements.</p> <p>At the end of this lesson you will be able to identify the role of the Defense Reutilization and Marketing Service (DRMS) in supporting environmental improvement.</p>
<b>23</b>	<p><b>At the end of this module, you will be able to recognize the support planning challenges inherent in each phase of the acquisition life cycle.</b></p> <p>List the elements necessary for providing logistics support over the life cycle of DoD weapon systems and equipment.</p> <p>List the elements necessary for providing logistics support over the life cycle of DoD weapon systems and equipment.</p> <p>Describe the key logistics considerations associated with Acquisition Milestone C and the logistics activities associated with the Production and Deployment phase of the life cycle.</p> <p>Describe the continuing logistics activities that are necessary for effective and efficient long-term support of weapon systems and equipment during the Operations and Sustainment phase of the life cycle.</p> <p>Identify the life cycle logistician's logistics assessment requirements.</p>