



DEFENSE ACQUISITION UNIVERSITY

LOG 215 - Technical Data Management

141002

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

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| 1 | <p>Distinguish the guiding principles governing Technical Data Management.</p> <p>Distinguish the relationship between Data Management and Technical Data Management.</p> <p>Recognize the types of technical data required for DoD products.</p> <p>Distinguish between the laws, regulations, policy, and guidance.</p> <p>Recognize the minimum essential data management requirements.</p> |
| 2 | <p>Demonstrate how technical data integrates and impacts the other Product Support Elements and program functional activities during each life cycle phase and within the broader performance environment</p> <p>Identify the roles, responsibilities and interrelationships between all technical data product support stakeholders throughout the program enterprise.</p> <p>Identify the interface between the technical data Integrated Product Support (IPS) element with the other career fields.</p> <p>Recognize the relationship between technical data and the Integrated Product Support (IPS) elements.</p> <p>Identify the impact of technical data on Product Support Elements during each of the Life Cycle phases.</p> <p>Identify the impact of technical data and associated products on program functional activities during each Life Cycle phase.</p> |
| 3 | <p>Demonstrate the development of technical data management strategies and requirements.</p> <p>Recognize why technical data management strategies are important in acquiring and managing technical data.</p> <p>Identify examples of technical data requirements planning.</p> <p>Identify a strategy for long term funding requirements for technical data.</p> <p>Identify the elements of a Intellectual Property Strategy and requirements for its development.</p> <p>Explain the process of developing and implementing an Intellectual Property (IP) Strategy.</p> <p>Identify technical data inputs to acquisition process milestone documentation.</p> <p>Recognize the need for and process of specifying Contract Data Requirements List (CDRL) and Data Item Description (DID) requirements to align with contract elements.</p> <p>Identify requirements for Modular Open Systems Architecture.</p> <p>Recognize how technical data impacts competition through the development and implementation of various support strategies.</p> <p>Summarize the key requirements for managing historical technical data to include acquiring, assessing, storing, and archiving.</p> <p>Recognize the risks related to failing to control the scope and cost growth in technical data management systems over time.</p> |
| 4 | <p>Demonstrate the development of technical data management strategies and requirements to include assessment of long-term life cycle sustainment, the key players involved, and the role of the acquisition professional in the overall process.</p> <p>Recognize the elements of a Product Support Strategy.</p> <p>Describe the technical data inputs for the Life Cycle Sustainment Plan.</p> <p>Recognize the various sources of technical data inputs for the Life Cycle Sustainment Plan (LCSP).</p> <p>Recognize the Technical Data Management considerations in the Product Support Business Case Analysis (BCA).</p> <p>Recognize the relationship between configuration management and technical data management during life cycle sustainment.</p> |
| 5 | <p>Demonstrate the development of technical data management strategies and requirements to include assessment of performance-based life cycle product support (PBL).</p> <p>Relate the strategy for technical data management to PBL product support strategies.</p> <p>Identify how technical data requirements contribute towards achieving Warfighter requirements for life cycle availability and affordability.</p> <p>Recognize the relationship between program performance-based metrics, incentives, and technical data requirements which impact system performance.</p> <p>Identify the type of long-term product support arrangements that applies technical data requirements in supporting achievement of system availability and affordability.</p> <p>Identify uses of technical data to reduce life cycle costs.</p> <p>Identify the impacts of using technical data to reduce life cycle costs.</p> <p>Demonstrate how to use Product Support Management oversight and assessment to achieve long term technical data needs and sustainment.</p> |
| 6 | <p>Determine access to, usage, revisions and updates to common and unique types of life cycle technical specifications and standards.</p> <p>Identify types of technical specifications and standards.</p> <p>Distinguish between DoD, Commercial, and International specifications and standards.</p> |



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| | Identify how specifications and standards are used throughout the life cycle. |
| | Show the process of revising specifications and standards. |
| 7 | Identify and understand requirements, development, usage and updates related to technical data packages during the life cycle. |
| | Identify the levels and types of Technical Data Packages. |
| | Describe the content of Technical Data Packages used in technical data. |
| | Differentiate between the various types of drawings used in technical data management. |
| | Recognize how to apply best practices for procuring, managing, tracking, receiving, reviewing, accepting, approving and revising Technical Data packages. |
| | Identify characteristics of distribution statements and security controls for Technical Data Packages. |
| 8 | Recognize the purpose of technical publications/manuals and technical orders associated with a given point of the life cycle. |
| | Distinguish between types of technical publications and differences between Services' terminologies. |
| | Identify the purpose of software documentation. |
| | Identify the elements of a system technical publications strategy, both electronic and paper-based. |
| | Recognize DoD Services guidelines for acquisition, fielding, and maintenance of technical publications throughout the life cycle. |
| | Recognize DoD Services guidelines for acquisition, fielding, and maintenance of technical publications throughout the life cycle. |
| 9 | Illustrate the required infrastructure for technical and product data management. |
| | Identify types of logistics product data |
| | Recognize sources of logistics product data |
| | Identify uses of logistics product data |
| | Recognize the use and application of supportability analysis tools to produce the Logistics Product Data. |
| | Relate logistics product data, the Integrated Product Support (IPS) Elements and the Product Support Package. |
| | Recognize contracting for Logistics Product Data |
| 10 | Demonstrate techniques for developing strategies and plans for acquiring and implementing the required infrastructure for technical and product data management under Product Life Cycle Management (PLM). |
| | Identify the elements of Product Life Cycle Management (PLM) |
| | Recognize the characteristics of interoperability architectures for legacy data, data management tools and associated file structures. |
| | Recognize the process for procuring an open system architecture, enterprise level data management system. |
| | Recognize the process for implementing interoperability architectures for legacy data, data management tools, and associate file structures. |
| | Recognize the processes for the distribution and communication of technical data to the point of use. |
| | Determine the strategy elements and related challenges for a Joint approach to implementing interoperability of technical and product data among the Services. |
| | Determine characteristics of common interfaces and interoperability of logistics information among the military Services and international partners. |
| | Recognize the process for developing and evaluating technical data quality assurance and quality control processes to validate data integrity and adequacy. |
| | Recognize the need and process for identifying and implementing technical data security practices for both classified and unclassified information |
| | Identify the process for evaluating technical data access procedures |
| 11 | Develop and apply criteria to select the type of software tool suite necessary to obtain specific supportability analysis outputs in each product support functional area. |
| | Describe how enterprise tools are used to implement a program's product data integration requirements. |