



DEFENSE ACQUISITION UNIVERSITY

ACQ 201B Intermediate Systems Acquisition, Part B

130225

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

1	Determine how IPT leadership concepts can be used to overcome barriers to effective teamwork, based on real world experience.
	Relate key tenets of IPPD to planning and executing an acquisition program.
	Identify the aids and barriers to successful IPT implementation.
	Identify the Supervisory, Participative and Team leadership styles.
	Describe how different leadership styles impact the effectiveness of an IPT.
2	Resolve an acquisition-related dilemma by prioritizing ethical values and considering how choices impact the welfare of others.
	Identify the characteristics of a "successful" defense acquisition program from a variety of perspectives.
	Identify core ethical values critical to decision making in the acquisition environment.
	Identify the steps of the Principled Decision Making Model.
	Resolve an ethical dilemma by applying the steps of the Principled Decision Making Model.
3	Evaluate alternative approaches to meet a needed capability based on affordability, schedule and technical considerations
	Given a user's requirement and selected concept, select an appropriate approach from the perspective of the system developer, to meet the requirement.
	Identify the three major dimensions of program risk used to analyze technical approaches during the Materiel Solution Analysis Phase (cost, schedule and performance)
	Identify the concept of Cost as an Independent Variable (CAIV) in relation to an acquisition program.
	Relate the concepts of affordability and Cost as an Independent Variable (CAIV) to the planning of an acquisition program.
4	Prepare an acquisition strategy program structure chart showing appropriate interrelationship(s) of the various business and technical functions involved in planning and executing the program:
	Given an acquisition program scenario with information on technology maturity, funding and JCIDS documentation, identify the correct starting point for the program in the acquisition lifecycle
	Identify the correct type appropriated funds needed by phase and work effort
	Given an acquisition program structure chart identify the correct sequence and timing of technical reviews by phase and work effort
	Given an acquisition program structure chart identify the correct sequence and timing of developmental and operational test events by phase and work effort
	Given an acquisition program structure chart identify the correct sequence and timing of lifecycle logistics planning and execution efforts by phase and work effort
	Given an acquisition program structure chart, identify the appropriate contract types by phase and work effort
	Given an acquisition program structure chart, identify the timing of major hardware deliverables by phase and work effort
	Relate the capability documents (ICD,CDD,CPD) to the correct phases of the acquisition system
	Identify the evolutionary acquisition strategy approach
Identify the single step acquisition strategy approach	
5	Modify an acquisition strategy to accommodate a change in program funding levels
	Identify the proper response to a program funding cut
	Given a program funding cut identify the potential impacts on industry
6	Develop portions of a source selection plan, including source selection criteria
	Identify how the Government communicates performance requirements in solicitations.
	Identify the role of various IPT members in developing the solicitation.
	Identify the purpose of evaluation criteria and how the criteria are developed.
7	Apply the iterative SE steps to develop outputs of the systems engineering process in order to verify they meet a given requirement
	Given a summary Capability Development Document (CDD) and a system concept, determine whether the concept addresses all user requirements.
	Identify the overall purpose of the systems engineering process
	Identify the technical processes that make up the overall systems engineering process



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	Identify the technical management processes used to control and manage the overall systems engineering process
	Identify the main inputs and outputs of the overall systems engineering process
	Given an acquisition scenario within an IPT environment, develop selected outputs of the systems engineering process steps.
8	Given a program schedule, explain the role of test and evaluation (DT&E, OT&E, LFT&E) in the systems engineering and acquisition management processes.
	Identify the characteristics and purposes of Developmental Test and Evaluation (DT&E)
	Identify the characteristics and purposes of Operational Test and Evaluation (OT&E)
	Identify the characteristics and purposes of Live Fire Test and Evaluation (LFT&E)
	Given a test event description, correctly identify the type of testing being accomplished
	Given a program schedule, correctly identify opportunities for combined DT/OT
	Identify the risks and benefits associated with combining DT and OT events
9	Analyze actual versus planned technical performance data in risk areas to indicate potential problems that may prevent a system from being operationally effective and suitable.
	Identify potential risk areas based on technical performance data
	Identify the role of technical performance measures in the systems engineering process.
10	Given a segment of contract work and associated tasks, plan the tasks and resources necessary to complete contract work within cost and schedule constraints.
	Apply the fully burdened rate to labor hours to correctly calculate contractor's costs
	Distinguish correctly between direct and indirect costs on a contract
	Given a simple Gantt chart with defined task relationships, identify the critical path
	Given a completed Gantt chart with the critical path identified, identify cost and schedule risks in the plan
	Given a completed Gantt chart with the critical path identified, explain cost and schedule risks in the plan
11	Select a best value contractor by comparing contractor proposals and test results to source selection criteria
	Apply evaluation criteria in a source selection.
	Identify the best value approach to source selection
	Apply a selected quantitative tool (e.g. decision matrix) to resolve a problem
12	The student will be able to analyze earned value data and contractor performance indicators to identify trends and problems
	Given earned value data calculate cost variance, schedule variance, cost performance index and schedule performance index
	Given cost variance, schedule variance, SPI & CPI explain the program's cost and schedule status
	Given the Actual Cost, Target Cost, Target Profit, Target Price, Share Line, and Ceiling Price on a Fixed Price Incentive Firm Target Contract, correctly calculate the Final Contract Price.
13	Given a scenario, apply key software acquisition management principles needed to make sound decisions for planning and executing an acquisition program.
	Identify common ways that software-intensive projects have gotten into trouble.
	Identify "Best Practices" that may be appropriate for the acquisition of software-intensive systems.
	Identify the aspects of the Net Ready KPP as it applies to acquisition of Information Technology (e.g. interoperability, architecture, information assurance).
	Identify the benefits and risks associated with using Commercial Off The Shelf (COTS) software
	Explain the relationship between software development activities and the systems engineering process.
	Explain the impact of a new requirement on various functional areas
	Identify the impacts of a new program requirement on the following functional areas: Program Management, Systems Engineering, Contracting, Lifecycle Logistics, Financial Management, Software Acquisition Management, & Test and Evaluation
14	Analyze a reliability problem from multiple perspectives and select and defend a solution
	Explain the interrelationship between selected functional areas (e.g., contracting, finance, systems engineering) and acquisition logistics.
	Explain why it is important to influence system design for supportability.
	Explain the relationship of Reliability, Availability, and Maintainability (RAM) to Acquisition Logistics, and its impact on system performance, operational effectiveness (including support), logistics planning, and life-cycle cost.



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	Identify and the impacts of a supportability problem on the following functional areas: Program Management, Systems Engineering, Contracting, Lifecycle Logistics, Financial Management, Quality Assurance & Manufacturing, & Test and Evaluation
	Explain how instability of requirements, design, and production processes impact program cost and schedule.
15	Given a scenario, identify the major contract administration activities.
	Explain the interrelationship between selected functional areas (e.g., life cycle logistics, finance, systems engineering) and contracting.
	Identify the causes and consequences of constructive changes
	Identify the complementary roles and responsibilities of the contracting officer and the program manager in their partnership throughout the acquisition process.
16	Given a scenario, apply the procedures, rules and public laws associated with the execution of DoD budgets.
	Identify the public laws (i.e., Misappropriation Act, Anti-deficiency Act, Bona Fide Need Rule) that apply to the use of appropriated funds in DoD acquisition.
	Select the appropriate public law (i.e., Misappropriation Act, Anti-deficiency Act, Bona Fide Need Rule) that applies to the use of appropriated funds under specific circumstances.
17	Analyze the elements of manufacturing as they relate to a systems performance problem using a qualitative tool (cause and effect/fishbone diagram)
	Identify the elements of manufacturing (5Ms).
	Explain the considerations/concerns of the elements of manufacturing (5Ms) and how other areas are affected.
	Explain the impact of manufacturing on cost, schedule and performance.
	Explain the use of the 5 Whys root cause determination method in identifying potential root causes
	Explain the multi-voting technique to narrow large lists of possibilities into smaller, more manageable, lists
18	Evaluate the impact of supportability issues on system readiness/performance and other functional areas. E.g. contracts, finance, systems engineering and acquisition logistics
	Synthesize several approaches to solving a program supportability issue (obsolescence).
	Evaluate approaches to solving a program supportability issue (obsolescence).
	Recommend the best to solving a program supportability issue (obsolescence).
	Identify the proper DoD Appropriation Category to be used to budget for each of the three phases of a Product Improvement Program.
	Assess the impact of the failure to execute funds in accordance with program plans.
	Recognize how configuration management impacts all functional disciplines (e.g., test, logistics, manufacturing, etc.)
	Demonstrate the interrelationship between selected functional areas, e.g., contracting, finance, systems engineering, and life cycle logistics.
	Identify tools/best practices/techniques available in the systems engineering process to achieve the principal goals of supportability analyses.
	Apply performance based metrics to a program supportability problem (e.g. obsolescence)
	Apply performance or outcome based logistics principles to solving a program obsolescence issue.