



DEFENSE ACQUISITION UNIVERSITY

ISA 320 Advanced Program Information Systems Acquisition

151001

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

1	Given descriptive information and appropriate software acquisition management reference materials, assess the effect of current and proposed executive branch, legislative branch, and departmental level policy and legal initiatives on software acquisition management.
	Presented with a DoD law or directive and a DoD acquisition vignette, analyze the potential impact of the given law/directive on the management of software systems.
	Given descriptive information and appropriate software acquisition management reference materials, assess the effect of executive branch, legislative branch and departmental level policy and legal initiatives on software acquisition management.
2	Utilizing critical thinking and problem solving methodologies, propose a solution to the problem in a given case study.
	Recognize the process and rationale for utilizing case studies for technical management learning
	Recognize the methodology for problem solving and how to apply it to analysis of a case study.
	Apply critical thinking methodology to issues in a case study
	Apply problem solving methodology to issues in a case study
3	Utilizing problem solving, critical thinking principles, propose a team solution to a complex software release problem for a given IT acquisition scenario involving a software deployment and release dilemma.
	Assess software best practice applications in a given software development and acquisition process scenario
	Assess the state of software integration within both the government and contractor's programs in a given scenario
	Given a scenario, analyze program office and contractor status/plans for software development, integration, management and support.
	Given an IT acquisition scenario, recommend changes to an existing software development capability release plan to increase the likelihood of defined success measures.
	Propose a team solution to a contracting issue in the development environment.
4	Given a scenario, determine if the proposed software acquisition development method will achieve a favorable acquisition outcome.
	Assess the strengths and weaknesses of different software acquisition strategies.
	Assess the issues, risks and advantages that lead to adoption of one software acquisition methodology over another
	Propose the factors to be considered in the formulation of a software acquisition strategy.
5	Utilizing problem solving and critical thinking principles discussed in class, propose a team solution to a complex data rights problem in a given IT acquisition scenario.
	Given a scenario, determine the appropriate data rights to be acquired to support programmatic and acquisition strategies.
	Given an acquisition case study, identify responsibilities of an IPT, the limits of their authority, and potential management challenges
	Propose a team solution to a contracting issue in the development environment.
6	Given a scenario, determine if the proposed software requirements management methodology will achieve a favorable acquisition outcome.
	Assess the roles and responsibilities of various stakeholders in the software requirements management process.
	Assess the programmatic impact of shifting requirements from hardware solutions to software solutions
	Assess the impact of software requirements changes or refinements on cost, schedule, and performance.
	Evaluate the impact of a chosen software development methodology on the software requirement management process
7	Given a scenario, determine if the proposed software quality management program will succeed in achieving a favorable acquisition outcome.
	Assess the strengths and weaknesses of software quality practices proposed by a contractor for ensuring the delivery of quality software.
	Propose factors to be used by the government in selecting a contractor with satisfactory software quality management capabilities.
	Evaluate the ability of a contractors ability to use of software quality processes to gain visibility into program status and problems
8	Utilizing problem solving, critical thinking and negotiation principles discussed in class, propose a team solution to a complex SW Development Measurement issue in a given IT acquisition.
	Given a software-reliant system acquisition scenario and a software quality assurance approach, evaluate how the plan meets software system quality objectives and recommend improvements as necessary.
	Given a software-reliant system acquisition scenario, evaluate a software defect management program's ability to predict software quality.
	Given a scenario, evaluate the effectiveness of an IT measurement and analysis program.
	Propose a team solution to a contracting issue in the development environment.



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9	Given a scenario, determine if the proposed Commercial off the shelf (COTS) and Software Reuse strategy will achieve a favorable acquisition outcome.
	Assess the evolution of policies and practices that have shifted software acquisition from development to procurement and the resulting implications.
	Assess the domain specific programmatic issues of incorporating software product reuse and COTS items.
	Assess the integration and interoperability aspects of a software acquisition that incorporates multiple COTS and reuse products.
10	Given a scenario, determine if the proposed software assurance methods and technologies will achieve a favorable acquisition outcome.
	Compare and contrast software assurance methods and technologies
	Assess the effectiveness of a common software assurance methods
	Given an IT acquisition scenario, recommend cybersecurity related requirements that go into a request for proposal.
11	Utilizing problem solving, critical thinking and negotiation principles discussed in class, propose a team solution to a complex Contracting issue in a given IT acquisition.
	Develop objective criteria for CPIF/FPIF from subjective CPAF award fee criteria
	Evaluate the applicability of given software development models proposed by a contractor.
	Given a software system lifecycle approach, evaluate the effectiveness and efficiency of the approach over its lifecycle.
12	Propose a team solution to a contracting issue in the development environment.
	Given a scenario, determine if the proposed method to manage software development risk will achieve a favorable acquisition outcome.
	Assess current and emerging initiatives for how software acquisition risk is treated.
	Assess how policy and regulations influence the software risk management process.
13	Assess the role of size estimation as a tool for mitigating risk.
	Assess the role of international software standards as means of managing the risk in a software acquisition.
	Utilizing problem solving, critical thinking and negotiation principles discussed in class, propose a team solution to a life-cycle management dilemma in a given IT acquisition.
	Analyze program office and contractor status/plans for software development, integration, management and support
	Assess the impact of proposed program alternatives, actual program change, and program restructure plans to a systems lifecycle costs
	Evaluate risks and associated metrics throughout the program life-cycle; assess selected risk mitigation strategies and illustrate their relative merits
Given a software system lifecycle approach, evaluate the effectiveness and efficiency of the approach over its lifecycle.	
Propose a team solution to a contracting issue in the development environment.	