



# Objectives Sheet

## ISA 201 - Intermediate Information Systems Acquisition

*Course Learning/Performance Objectives followed by enabling learning objectives*

<b>ISA 201.U02.01</b>	<b>Given a Department of Defense (DoD) Information Technology (IT) acquisition scenario, recognize characteristics of the IT Box concept.</b>
ISA 201.U02.01.01	Identify capability planning documents from a list.
ISA 201.U02.01.02	Identify the purpose of using the IT Box.
ISA 201.U02.01.03	Describe the benefits of using the IT Box process to support IT capability development.
ISA 201.U02.01.04	Identify two benefits of DoD capability planning processes.
ISA 201.U02.01.05	Given a description of an IT acquisition need, assess documentation to ensure specific information provides a clear understanding of the intended IT acquisition objectives from program outset.
<b>ISA 201.U03.01</b>	<b>Given a DoD IT/SW acquisition scenario, provide IT/SW inputs into the Program's Information Support Plan (ISP).</b>
ISA 201.U03.01.01	Identify the laws and policies requiring the use of Enterprise Architecture tools and concepts.
ISA 201.U03.01.02	Recognize how to apply architectural data within the DoD acquisition process.
ISA 201.U03.01.03	Recognize the relationship between Enterprise Architecture and Solution Architecture.
ISA 201.U03.01.04	Diagram one of the following: "All, Operational, Systems and/or Standards Views" of the DoD Architecture Framework (DoDAF).
ISA 201.U03.01.05	Recognize that the Global Information Grid (GIG) Technical Guidance-Federation (GTG-F) DoD Information Technology Standards Registry (DISR) is used to build the solution architecture.
ISA 201.U03.01.06	Recognize the management benefits of the Information Support Plan (ISP).
ISA 201.U03.01.07	Identify five (5) key areas of the Global Information Grid (GIG)/DoD Information Network (DODIN).
ISA 201.U03.01.08	Describe the Joint Information Environment (JIE).
ISA 201.U03.01.09	Identify the benefits of the Joint Information Environment (JIE).
<b>ISA 201.U04.01</b>	<b>Given a DoD IT/SW acquisition scenario, apply appropriate laws, policies, directives and guidebooks to guide the acquisition.</b>
<b>ISA 201.U04.02</b>	<b>Given the decision to develop a DoD IT/SW system, select the appropriate acquisition strategies to promote the most effective technical and business solution.</b>
<b>ISA 201.U04.03</b>	<b>Given a DoD IT/SW acquisition program, describe the Capital Planning and Investment Control (CPIC) responsibilities for IT Portfolio Management.</b>
<b>ISA 201.U04.04</b>	<b>Given an overview of the Business Capability Acquisition Cycle (BCAC), identify the objective of the Capability Need Identification phase.</b>
ISA 201.U04.04.01	Describe the impact of Title 40/CCA on acquisition of Information Technology (IT).
ISA 201.U04.04.02	Apply the eleven (11) compliancy requirements of Title 40/CCA to a given DoD IT System.
ISA 201.U04.04.03	Recognize the characteristics of possible acquisition models for an IT/SW Acquisition Strategy.
ISA 201.U04.04.04	Identify relevant considerations that influence the acquisition strategy of a software-reliant system.
<b>ISA 201.U05.01</b>	<b>Given a DoD IT/SW acquisition scenario and the Practical Software and Systems Measurement (PSM) methodology, create appropriate measures that allow program/enterprise leadership to make effective decisions.</b>
ISA 201.U05.01.01	Describe the Practical Software and Systems Measurement (PSM) Principles, Practices, and Measurement Methodology.
ISA 201.U05.01.02	Given a DoD IT/SW scenario and the PSM methodology, identify information needs.
ISA 201.U05.01.03	Create measures based on an IT/SW program/enterprise's information needs.
ISA 201.U05.01.04	Apply measurement results to support effective IT/SW program/enterprise decisions.
<b>ISA 201.U06.01</b>	<b>Given a DoD IT/SW acquisition scenario, apply CPI concepts with the goal of improving the internal acquisition business processes of the government.</b>
ISA 201.U06.01.01	Identify the DoD policy that describes the Implementation and Management of the DoD-Wide Continuous Process Improvement Program
ISA 201.U06.01.02	Define Business Process Reengineering (BPR)
ISA 201.U06.01.03	Define Continuous Process Improvement (CPI)
ISA 201.U06.01.04	Given a DoD IT/SW process scenario, apply various BPR/CPI method principles to improve business outcomes.
<b>ISA 201.U07.01</b>	<b>Given a DoD IT/SW acquisition scenario, apply DoD risk management policy in support of the program objectives and priorities.</b>
ISA 201.U07.01.01	Define the elements that constitute an effective Risk Management (RM) program for an IT system acquisition.
ISA 201.U07.01.02	Identify the two components of risk.



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ISA 201.U07.01.03	Identify how risk, issue, and opportunity management interrelate.
ISA 201.U07.01.04	Identify risks inherent to Information Technology (IT) system acquisition.
ISA 201.U07.01.05	Apply the five components of the DoD Risk Management Process Model to a given IT acquisition scenario.
<b>ISA 201.U08.01</b>	<b>Apply cybersecurity analysis throughout acquisition lifecycle phases.</b>
ISA 201.U08.01.01	Analyze factors that drive cybersecurity requirements.
ISA 201.U08.01.02	Recognize that programs should consider Cybersecurity in risk management activities.
ISA 201.U08.01.03	Demonstrate cybersecurity integration into the Source Selection and Solicitation processes.
<b>ISA 201.U09.01</b>	<b>Given a DoD IT/SW scenario, describe the requirements management process for successful software acquisition.</b>
<b>ISA 201.U09.02</b>	<b>Given a DoD IT/SW acquisition scenario, apply System Engineering Lessons Learned, Best Practices and Rules of Thumb (Heuristics) when acquiring software.</b>
<b>ISA 201.U09.03</b>	<b>Given a DoD IT/SW scenario, describe the configuration management process for successful software management.</b>
ISA 201.U09.03.01	Describe the role of the Software Engineer in supporting the Systems Engineer.
ISA 201.U09.03.02	Describe the DoD Systems Engineering Process in the context of an IT/SW Development.
ISA 201.U09.03.03	Describe the different activities that comprise the SE/SW technical and technical management processes.
ISA 201.U09.03.04	Recognize that Software Reuse must be considered when engineering a software design and development.
ISA 201.U09.03.05	Given a DoD IT/SW acquisition scenario, recognize aspects of the engineering management principles of Risk Management, Configuration Management and Interface Management to a development effort.
<b>ISA 201.U10.01</b>	<b>Given a DoD IT/SW system scenario, develop the software program office lifecycle cost and schedule effort projections for budget purposes.</b>
ISA 201.U10.01.01	Describe the DoD processes for generating program office cost and schedule estimates.
ISA 201.U10.01.02	Describe the basic cost and schedule estimating methodologies used to budget for a software-reliant system.
ISA 201.U10.01.03	Given a DoD IT/SW scenario, develop cost and schedule budget estimates.
ISA 201.U10.01.04	Determine the impact of COTS and other Cost Drivers on achieving an accurate estimation of Program costs.
<b>ISA 201.U11.01</b>	<b>Given a DoD IT/SW acquisition scenario, recommend the appropriate software development methodology/mix of methodologies to ensure program success.</b>
ISA 201.U11.01.01	Identify the most appropriate software methodology (or a combination of methodologies) to meet the expectations of the government.
ISA 201.U11.01.02	Identify the key principles of an agile software development process.
ISA 201.U11.01.03	Describe selected aspects of the SCRUM method.
ISA 201.U11.01.04	Develop estimates for tasks using agile techniques and Story Points.
ISA 201.U11.01.05	Recognize the purpose of key agile software measures.
ISA 201.U11.01.06	Define the role of 'Software DEvelopment and information technology OPerationS ' (DevOps) in a software development project.
<b>ISA 201.U13.01</b>	<b>Given a DoD IT/SW Acquisition scenario, apply appropriate design considerations for software-reliant system's design.</b>
<b>ISA 201.U14.01</b>	<b>Analyze Cybersecurity Systems Security Engineering (SSE) practices throughout acquisition lifecycle phases.</b>
ISA 201.U14.01.01	Examine cybersecurity considerations in Systems Security Engineering (SSE)/Systems Engineering (SE) processes.
ISA 201.U14.01.02	Recognize planning aspects for cybersecurity testing and evaluation.
ISA 201.U14.01.03	Discuss cybersecurity lifecycle support and maintenance considerations.
ISA 201.U14.01.04	Recognize software assurance (SwA) protections.
ISA 201.U14.01.05	Examine continuous monitoring of cybersecurity risks.
ISA 201.U14.01.06	Recognize key aspects of cybersecurity incident handling.
<b>ISA 201.U15.01</b>	<b>Given a DoD IT/software acquisition scenario with a Program Manager's (PM) quality statement, evaluate program plans to meet PM expectations.</b>
ISA 201.U15.01.01	Identify characteristics unique to software that impact quality.
ISA 201.U15.01.02	Define software quality.



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ISA 201.U15.01.03	Identify characteristics of generic DOD software system domains (e.g. Platform IT, Command and Control, and Defense Business Systems), that might influence how each system is reviewed in a software quality program.
ISA 201.U15.01.04	Recognize that every IT acquisition program requires a Program Manager approved software quality statement.
ISA 201.U15.01.05	Given several process-focused and product-focused software quality assurance methods, describe how each assures quality in a software acquisition.
ISA 201.U15.01.06	Recognize the benefits of applying Capability Maturity Model Integrated (CMMI) concepts and principles to a DoD SW development project.
ISA 201.U15.01.07	Given a software acquisition scenario, recognize the preferred method for identifying and tracking defects.
ISA 201.U15.01.08	Given an acquisition scenario with multiple software related programmatic issues, analyze how each may impact the program's ability to meet its quality objectives.
<b>ISA 201.U16.01</b>	<b>Given a DoD IT/SW acquisition scenario, apply software T&amp;E best practices that result in system acceptance.</b>
ISA 201.U16.01.01	Identify the Test & Evaluation (T&E) responsibilities of the IT/SW Program Manager (PM).
ISA 201.U16.01.02	Describe the purpose of DoD software Test & Evaluation (T&E)..
ISA 201.U16.01.03	Describe the DoD software T&E environment.
ISA 201.U16.01.04	Describe the DoD software T&E process.
ISA 201.U16.01.05	Identify what Independent Verification and Validation (IV&V) is.
ISA 201.U16.01.06	Recognize the different types of software testing tools.
ISA 201.U16.01.07	Identify common DoD software testing issues and risks.
ISA 201.U16.01.08	Recognize the Agile software development T&E challenges.
ISA 201.U16.01.09	Recognize the software T&E best practices.
<b>ISA 201.U17.01</b>	<b>Given a DoD IT/SW development scenario, apply the best practices of IT Contracting that result in a best-value, competitive acquisition.</b>
ISA 201.U17.01.01	Describe the connection between the IT acquisition process and the required rules and regulations prescribed in the FAR and DFARS.
ISA 201.U17.01.02	Identify characteristics of contracting for Agile Software Development projects
ISA 201.U17.01.03	Given a scenario, identify the requirement for a Modular Contracting solution.
ISA 201.U17.01.04	Describe the relationship among the Contracting Officer, Program Manager, and Contracting Officer's Representative (COR).
ISA 201.U17.01.05	Recognize the association of acquisition planning to the contracting strategy.
ISA 201.U17.01.06	Recognize the particular aspects of market research unique to IT.
ISA 201.U17.01.07	Given an IT requirement, choose between a development and a commercial acquisition contracting approach.
ISA 201.U17.01.08	Given a scenario, evaluate an acquisition strategy that offers optimal opportunity for competitive acquisition.
ISA 201.U17.01.09	Identify the elements of Performance-Based Acquisitions (PBA) and Performance-Based Services Acquisitions (PBSA).
ISA 201.U17.01.10	Recognize different types of data rights.
<b>ISA 201.U19.01</b>	<b>Given a DoD IT/SW Acquisition, apply cloud acquisition best practices to obtain cloud services.</b>
ISA 201.U19.01.01	Identify the basic terms of Cloud Computing
ISA 201.U19.01.02	Recognize the five (5) essential characteristics of a cloud service.
ISA 201.U19.01.03	Recognize characteristics of the three (3) NIST-defined Cloud Service Models: Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS).
ISA 201.U19.01.04	Recognize the four (4) Cloud Deployment Models: public, private, community and hybrid cloud deployment models (NIST).
ISA 201.U19.01.05	Recognize some DoD Concerns of Using Cloud Services.
ISA 201.U19.01.06	Recognize the steps and considerations for obtaining Cloud services.
ISA 201.U19.01.07	Describe the problems with Legacy software applications and Cloud.
<b>ISA 201.U20.01</b>	<b>Given a Department of Defense (DoD) IT acquisition scenario early in the lifecycle, analyze software sustainment planning factors critical to the success of a potential Software Support Activity (SSA).</b>
<b>ISA 201.U20.02</b>	<b>Given a Department of Defense (DoD) IT acquisition scenario, manage IT system transition to a Software Support Activity (SSA) for Post Deployment Software Support (PDSS).</b>
<b>ISA 201.U20.03</b>	<b>Given an IT acquisition scenario during the Operations and Sustainment (O&amp;S) Phase, manage the optimal life-cycle sustainment approach for system software sustainment.</b>
ISA 201.U20.03.01	During the planning stage of DoD system software acquisition, Identify relevant considerations that influence the lifecycle support of a software-reliant system.



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ISA 201.U20.03.02	Identify the important software life cycle planning documents and their major components.
ISA 201.U20.03.03	Identify at least one major activity related to the Product Support BCA that should occur at relevant acquisition milestones.
ISA 201.U20.03.04	Recognize the advantages and disadvantages of software transition deployment strategies.
ISA 201.U20.03.05	Recognize critical success factors for software transition.
ISA 201.U20.03.06	Describe the keys to successful software sustainment and support.
ISA 201.U20.03.07	Compare the types of software maintenance.
ISA 201.U20.03.08	Describe the purpose of the DoD software disposal process.
ISA 201.U20.03.09	Describe the impacts of not following the DoD software disposal process.
ISA 201.U20.03.10	Identify the items that must be considered to execute the DoD software disposal process.
ISA 201.U20.03.11	Describe the outcomes of successful DoD software disposal.
<b>ISA 201.U21.01</b>	<b>Given a DoD IT services acquisition scenario, recommend appropriate DoD Enterprise Service Management Framework (DESMF) guidance to manage a suite of IT services.</b>
ISA 201.U21.01.01	Identify the purpose and goals of the DoDI 8440.01 (DoD Information Technology (IT) Service Management (ITSM)).
ISA 201.U21.01.02	Identify the purpose and goals of the DESMF.
ISA 201.U21.01.03	Recognize the DoD policy for ITSM and the use of DESMF.
ISA 201.U21.01.04	Describe the DoD ITSM process.
ISA 201.U21.01.05	Identify the benefits and projected outcomes of DESMF.
ISA 201.U21.01.06	Describe the five (5) DESMF domain structures.
ISA 201.U21.01.07	Identify performance measures associated with each of the five (5) DESMF domains.
<b>ISA 201.U23.01</b>	<b>Analyze recent developments in the IT domain for impacts to DoD IT acquisition products and processes.</b>