



DEFENSE ACQUISITION UNIVERSITY
BCF 302- Advanced Concepts in Cost Analysis

120521

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

1	Analyze and evaluate how technical and performance requirements impact the development of a cost estimate.
	Summarize the requirements process and identify its key participants.
	Compare documents that provide technical and performance requirements in support of developing a cost estimate.
	Differentiate between ill and well defined requirements and their impacts on the final cost product.
2	Critically evaluate actual cost products
	Evaluate the relevancy of the cost products
	Evaluate the soundness of the cost products
	Evaluate the completeness of the cost products
3	Evaluate how the data collection and analysis process impacts cost products.
	Discuss the data collection and data analysis processes.
	Discuss the many aspects of data normalization.
	Discuss the difference between parametric and non-parametric analysis
4	Explain the role and benefits of Cost Estimating in the Source Selection process
	Describe the inter-relationships between DoD Source Selection policy, phases, key players, and activities
	Examine the role of the Cost Estimator in each step of the Source Selection process
	Identify techniques to determine Cost Realism
5	Understand the key ideas, analytical constructs, and practical applications of software cost estimating.
	Understand the different types of software projects
	Identify the key elements of the software development life cycle
	Identify cost drivers associated with each software type
6	Evaluate the relationship between Earned Value Management (EVM) Data, the Life Cycle Cost Estimate (LCCE) and Program Budgets
	Explain how key EVM concepts, practices, and formulas impact the relationship between EVM and the LCCE
	Assess EVM variables and metrics to determine potential impacts on the LCCE
	Apply EVM analysis to the LCCE and identify the impact to Program Budget
7	Critically evaluate Operating and Support cost estimates.
	Define O&S costs
	Describe the O&S costs challenge
	Understand the magnitude of O&S costs
	Gain insight regarding potential cost element relationships
	Discuss cost drivers
	Compare and contrast TOC and Life Cycle Cost (LCC), and determine appropriate uses
	Apply cost estimating techniques to unique TOC elements
Discuss evaluation questions	
8	Evaluate how sensitivity and risk analyses impact cost estimates.
	Summarize different types of sensitivity analyses and how they impact a cost estimate
	Summarize the risk analysis process



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	Assess the quality of an actual risk analysis
9	Differentiate between ethical and unethical behaviors when performing cost estimating tasks/efforts.
	Identify types of unethical behavior associated with cost estimating.
	Distinguish between examples of typical ethical and unethical behaviors conducted while performing cost estimating efforts.
	List known measures to prevent unethical behavior in cost estimating.
10	Critically evaluate competing cost estimates for a major defense acquisition program, and use that evaluation to develop and defend a reconciled life cycle cost estimate.
	Utilize many of the concepts/skills developed or emphasized during the this course, as well as in prior DAU courses and/or work experience
	Understand how cost estimates are derived from a common technical baseline (CARD)
	Negotiate, articulate, and defend various methodologies relating to actual cost estimates