



DEFENSE ACQUISITION UNIVERSITY
FE 302 - Advanced Facilities Engineering

160217

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

1	Using a lecture and case scenario, given a mission statement and alternatives, prepare requirements documents for congressional approval, in accordance with DoD policies and procedures
	Given MILCON and a Civil Work projects determine the statement of need
	Given a DD Form 1391, requirements document, identify its basic building blocks
	Given a DD Form 1391, review and evaluate it for accuracy and completeness.
2	Given a partial requirement, determine the cost risk associated with fulfilling the requirement for a project.
	Discriminate between salient factors that will affect the range of final costs
	Using cost risk tools, identify costs based on 50%, 80% and 99% confidence levels
	Recommend final budget requests based on the results of the analysis
3	Given a scenario, apply risk management actions and processes for a facilities engineering project
	Evaluate risk management tools and approaches for a project
	Select the risk management tools and approaches best suited to the assigned project
	Apply the risk management tools and approaches selected to the assigned project
	Produce a proposed risk mitigation plan for the assigned project before project initiation
4	Given a scenario, create a detailed integrated master schedule
	Build a construction schedule using the Critical Path Method (CPM).
	Analyze a baseline construction schedule for reasonableness.
	Determine how changed conditions can affect the overall construction schedule
5	Given a construction scenario, analyze project issues and formulate alternative resolutions
	Identify issues in assigned projects
	Analyze issues in terms of impact to project cost, schedule and performance
	Utilize any preexisting risk mitigation plans to complete analysis
	Recommend the risk mitigation strategy to keep the project completion on track
6	Estimate the time impact on adjustment to the risk management plan
	Given project management plan documentation, assess the adequacy of selected portions of a project management plan in support of construction projects
	Determine the necessary consistency of selected elements of the project plan, quality assurance plan and safety management plan) appropriate to the nature of the project
	Given a proposed change management plan, be able to create a change management method to account for changes to the project
	Discuss the current trends in construction management