



DEFENSE ACQUISITION UNIVERSITY

STM 304 - Leadership in Science and Technology Management

151001

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

1	Evaluate the theory of strategic planning for a technology organization and the current practices within the DoD
	Describe the steps to develop a well-conceived vision
	Compare the major theories of strategic planning
	Discuss how the DoD components conduct strategic planning and what constraints the DoD faces
2	Explain the key steps in managing a S&T strategy
	Demonstrate how to align an organization with its strategic goals when managing an S&T strategy
	Demonstrate how the Better Buying Power Initiative influences S&T
	Demonstrate how we can promote innovation
	Explore translating S&T capability requirements into development plans and actionable steps
	Outline the important distinction between push and pull technologies in technology transition
3	Analyze the principles of technology roadmapping to a technology area
	Outline the purposes of technology roadmapping
	Compare the types and steps of technology roadmapping
	Analyze the best practices of technology roadmapping
	Illustrate the benefits of roadmapping to researchers and customers
Discuss key DoD initiative: Reliance 21 and Communities of Interest (COI's)	
4	Given top-level strategic objectives and current DoD processes and best practices, evaluate technology portfolios to construct leadership recommendations for prioritization.
	Discuss key pieces of portfolio management process
	Describe the technology portfolio development/management processes used by the DoD Services and Agencies
	Discuss the challenges with evaluating and balancing technology alternatives
	Demonstrate the roles of different strategic "bins" in a portfolio (e.g., innovative/disruptive, bridging, leap ahead)
	Compare processes for identifying technology gaps and requirements
	Learn how to use value hierarchies to structure prioritization
	Compare different prioritization procedures based on relevant criteria (e.g. complexity, transparency, etc)
Prepare results of prioritization	
5	Assess methods to address challenges in developing and managing technology portfolios
	Evaluate a portfolio for a budgetary decision
	Prepare results of prioritization and risk management processes