

**COMPETENCIES
EMPLOYEE SELF-ASSESSMENT**

STM 302 - ADVANCED S&T MANAGEMENT COURSE

STM 302	Competency	Yes	No	Work Description/Justification
1	Identify and explain the primary objectives of each phase and milestone of the DoD Acquisition Process Model.			
2	Explain the principles of Science & Technology transition, the acquisition lifecycle, total ownership costs, the S&T - acquisition interface and S&T transition management objectives.			
3	Demonstrate an understanding of the technology engineering management process to create Defense Capabilities for existing and future requirements.			
4	Develop integrated architectures for DoD systems and understand the interoperability certification process.			
5	Given an acquisition scenario within the IPPD environment, the student will be able to develop and present the outputs of the systems engineering process.			
6	Given an acquisition scenario within the IPPD environment, the student will be able to identify the key activities necessary to implement the systems engineering process.			
7	Identify the benefits and pitfalls in international acquisition from an S&T manager's perspective.			
8	Evaluate organization, communication and teaming techniques that facilitate Integrated Product and Process Development in the Science & Technology program environment.			
9	Given a technology program scenario, develop requirements and metrics for managing the team, affordability, technology, cost & schedules.			

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10	Given an overview of alternative evaluation techniques, identify their opportunities and potential value for use in Technology project management.			
11	Prepare for the acquisition of a Software Intensive System by understanding the lessons learned, the governing regulations and guidelines, and the relevant system definitions.			
12	Given a notional software-intensive system, institute appropriate software management plans using the "16 Best Practices" tenets to address AT&L/S&T Software Intensive Systems (SIS) management concerns.			
13	Given a requirement to acquire a new start S&T software-intensive system, students will be able to determine the ability of contractors to provide on-time, within budget systems containing high quality mature software.			
14	Given a scenario, the student will correctly distinguish the role of Test & Evaluation in the acquisition and systems engineering processes.			
15	Apply the DoD test and evaluation process to S&T programs and contribute to the development of test and evaluation master plans in a test IPT environment.			
16	Identify a Test & Evaluation strategy for alternative acquisitions, such as Non-Developmental Items (NDI), Commercial Items & non-traditional acquisitions such as Advanced Concept Technology Demonstrations (ACTD).			
17	Given a technology program scenario, develop requirements and metrics for managing the team, affordability, technology, cost & schedule activities.			

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18	Analyze key issues related to transitioning technology to acquisition programs, evaluate alternative methods to address these issues and recommend steps that will lead to success.			