



# DEFENSE ACQUISITION UNIVERSITY

## TST 203 – INTERMEDIATE TEST AND EVALUATION

130213

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

1	<p>Given a set of acquisition-related documents that describe a notional weapon system, demonstrate an ability to compare and analyze the documents for key concepts.</p> <p>Demonstrate an ability to compare capabilities across program documents.</p> <p>Demonstrate an ability to analyze T&amp;E planning documents for similarity of contents</p>
2	<p>Given DoD guidance, the student will examine T&amp;E policy for all changes in terms, phases, and concepts.</p> <p>Review/outline T&amp;E policy changes.</p>
3	<p>Given a scenario, the student will correctly distinguish T&amp;E's role during the Concept Refinement Phase of the acquisition process; that of developing a T&amp;E Strategy (TES) document.</p> <p>Point out T&amp;E activities within an evolutionary acquisition process.</p> <p>Examine the impacts of system mission objectives on T&amp;E strategy.</p> <p>Examine the impacts of policy limitations on T&amp;E strategy.</p> <p>Examine the impacts of non-T&amp;E functional areas on the T&amp;E strategy.</p> <p>Discuss the impacts on T&amp;E strategy of using realistic mission environments.</p> <p>Explain the benefits of using T&amp;E best practices.</p> <p>Given a scenario, examine a T&amp;E Strategy (TES) document for required content to support a system development process.</p> <p>Discuss the purpose and intent of entrance and exit criteria.</p> <p>Discuss examples of DT&amp;E entrance and exit criteria.</p> <p>Discuss examples of OT&amp;E entrance and exit criteria.</p> <p>Discuss the role of T&amp;E in a military utility assessment.</p> <p>Point out the risks inherent in integration testing of components built by different vendors.</p> <p>Discuss the uses of T&amp;E during the Systems Engineering processes.</p> <p>Given a scenario, demonstrate an ability to determine if T&amp;E planning documents contain necessary resources.</p> <p>Discuss available tools that provide specific T&amp;E resource information.</p> <p>Contrast advantages and disadvantages of verification and T&amp;E methods.</p> <p>Point out additional aspects of multi-service T&amp;E.</p> <p>Contrast the risks and benefits of different T&amp;E strategies, such as combined/concurrent/integrated/ and incremental T&amp;E.</p> <p>Discuss T&amp;E in a joint mission environment.</p> <p>Discuss the concept of an event driven T&amp;E strategy.</p> <p>Discuss a verification cross reference index.</p> <p>Discuss potential uses and impacts of T&amp;E results.</p> <p>Discuss the impact of new technologies and technical maturity on T&amp;E.</p> <p>Discuss the impact of configuration management processes on T&amp;E.</p> <p>Discuss impacts of program baseline changes on T&amp;E.</p>
4	<p>Given a scenario, the student will correctly distinguish T&amp;E's role during the Technology Development Phase of the acquisition process; that of developing a Test and Evaluation Master Plan (TEMP) document.</p> <p>Given a scenario, analyze system capabilities for testability.</p> <p>Construct a requirements crosswalk/correlation matrix depicting metrics relationships.</p> <p>Discuss T&amp;E's role during development of capabilities documents.</p> <p>Discuss the effect of performance threshold/objective changes on T&amp;E.</p> <p>Examine a TEMP for required content to support a system development process.</p> <p>Discuss issues associated with evaluating training for new equipment.</p> <p>Relate processes necessary to coordinate T&amp;E resources.</p> <p>Discuss the significance of an evolving threat and potential threat equipment sources.</p> <p>Describe the requirements for and process to obtain threat simulation validation and accreditation.</p> <p>Given a scenario, transform KPP into test metrics down to data element level.</p>



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	Describe the resource categories and discuss reasons why some T&E resources require early coordination
	Outline OTA interactions with other acquisition agents.
	Summarize policy guidance on OTA interactions.
	Discuss the benefits and risks of user involvement in T&E.
	Contrast contractor involvement in DT&E and OT&E.
	Discuss processes for OTA evaluations of survivability.
	Discriminate between T&E of lethality and vulnerability and evaluation of survivability.
	Given a scenario, transform performance capabilities into a dendritic decomposed to data element level.
	Describe telemetry requirements and constraints.
	Discuss issues relevant to onboard and off-board instrumentation.
	Discuss the monitoring of impacts on T&E on performance deviations, deferrals and waivers.
	Contrast capabilities of DoD and contractor test ranges.
	Identify key considerations for selecting a test site.
	Describe DoD ranges, T&E facilities and laboratories that could be used for T&E.
5	<b>Given DoD guidance, the student will correctly describe two activities that T&amp;E becomes involved with during the Systems Integration Phase of the acquisition process; that of conducting Software T&amp;E and Information Assurance.</b>
	Examine the evolution of IT trends affecting T&E.
	Examine IT system development for issues impacting a T&E strategy.
	Identify impacts of IT architectures on T&E.
	Discuss and contrast T&E of COTS and NDI.
	Contrast T&E methodologies for embedded software and IT software applications.
	Critique the adequacy of information assurance evaluation in a T&E strategy.
6	<b>Given a system description, examine system capabilities to correctly identify T&amp;E issues related to ESOH.</b>
	Relate ESOH implications for T&E strategy planning.
	Given a system description, assess a system for T&E safety hazards.
	Given a system description, identify risk mitigations for T&E safety hazards.
	Given a system description, discuss specific risks inherent in this test execution.
7	<b>Given a system description, discuss corresponding issues and risks associated with RAM T&amp;E.</b>
	Discuss DT&E of system reliability and reliability growth.
	Discuss how OT&E of system reliability is different.
	Contrast risks & constraints of DT&E and OT&E of RAM.
	Discuss methodologies for reliability growth.
8	<b>Given key requirements of a notional weapon system, the student will discuss processes for system performance verification and evaluation, and will develop an operational or developmental test scenario to address the COI/CTP.</b>
	Discuss the impacts of operational mission scenarios on test planning.
	Discuss test event scenarios for DT&E and OT&E that include quantitative and qualitative metrics.
	Complete test cards/individual test event scenarios for a given test event.
9	<b>Given DoD guidance and test design documents, discuss a corresponding data management plan.</b>
	Discuss policy on T&E data management.
	Discuss essential elements for designing a test database.
	Discuss elements for a data authentication process.
	Discuss processes and constraints for releasing test data.
	Discuss processes for data failure definition and scoring.
10	<b>Given a system case, demonstrate an ability to accurately perform T&amp;E planning, execution, and after action review.</b>



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	Identify the purpose and uses of T&E After Action Reviews.
	Identify the elements of a T&E After Action Review.
	Discuss the contents of a T&E After Action Review.
	Outline the elements of a test plan.
	Complete a test plan for a DT&E event in the EMD phase.
	Differentiate between a DT&E and OT&E test plan in the EMD phase.
	Discuss the issues associated with the conduct of a pilot test.
	Discuss the elements of a test readiness review.
	Develop input for a Test Readiness Review.
	Describe a process for obtaining a safety release.
	Calculate a cost estimate for a T&E event.
	Discuss content and use of an evaluation plan.
	Discuss the necessary content for a detailed test plan.
	Identify the processes involved in test execution.
	Discuss pre-test activities and constraints.
	Discuss issues related to successful test execution.
	Discuss issues related to post-test activities.
	Practice the processes for a test execution.
	Demonstrate the ability to perform basic statistical analyses.
	Present summarized T&E plans for generating T&E data.
	Develop documentation for presenting findings and recommendations.
	Demonstrate the ability to conduct a post-test briefing.
	Outline manpower & other resource requirements necessary to support a test project.
	Complete a test plan with all essential elements.
	Discuss the criteria for canceling, postponing, or stopping testing.
	Describe the purpose and benefits for conducting baseline comparisons.
11	<b>Given test data and DoD guidance, accurately relate policy and process for deficiency reporting; and correctly analyze a potential incident occurring during conduct of testing.</b>
	Discuss deficiency reporting policy and process.
	Discuss the relationships between deficiency reporting and T&E.
	Discuss uses of a deficiency reporting tracking process.
	Evaluate a deficiency report based on T&E results.
	Complete a deficiency report for a test incident.
	Analyze cause and effect of a test incident.
	Present solutions for test conduct incident.
	Demonstrate recognition of data inconsistencies, errors, or other deficiencies.
12	<b>Given DoD guidance, correctly discuss the benefits and risks of using different test design and analysis methods.</b>
	Discuss applicability of design of experiments.
	Discuss implications of using statistical methods for analysis.
13	<b>Given a system description, correctly construct solutions for T&amp;E problems related to a product improvement.</b>
	Formulate test success criteria and discuss how/when to use them.
	Discuss the Operational Test Readiness Review Process.
	Discuss T&E events relevant to a product improvement.
	Formulate solutions for T&E problems generated during a product improvement.



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	Organize T&E events to support a system development process.
	Discuss T&E risks associated with a rapid acquisition process.
	Discuss funding processes for the program T&E strategy.
<b>14</b>	<b>Identify tailoring methodologies that would support cost effective T&amp;E.</b>
	Discuss problems and reasons for unsuccessful OT&E and pose alternatives.
	Discuss issues relevant to training and control of test participants.