## 16-450

## Robotics Systems Engineering Test Plan Evaluation

	missing	poor	fair	good	excellent
Validation & Verification	No V&V tests specified	Very few requirements are tested	Many requirements are not tested	Some requirements are not tested	Tests effectively evaluate whether the exhibit meets all functional requirements both in concept and implementation.
Operational Tests	No operational tests specified	Operational testing is minimal	There are some significant holes in the operational tests	Some minor holes are in the operational test suite	Test suite effectively evaluates whether the exhibit has succeeded in the museum. Must be quantitative.
Performance Tests	No performance tests specified	Performance test suite is minimal	Performance test suite has some significant omissions	Some minor holes are in the performance test suite	Test suite effectively and succinctly evaluates the ability of the system to meet its performance requirements. This includes subsystem testing.
Failure Analysis	No failure analysis or tests present	Failure analysis is minimal and/ or no tests present	There are significant holes in the failure analysis and/or test suite	Failure analysis is missing a small component or some tests are missing	Failure analysis includes a fault table and/or tree that succinctly identifies important failure modes. Tests are present that verify the mitigation method
Level of Detail	There are no tests	Most tests are missing significant detail required to run the tests	Many tests do not have an appropriate amount of detail	Some test descriptions are either too verbose or do not present enough detail	Tests are expressed succinctly but with enough detail for a 3rd party to perform them
Traceability	No traceability present	Only minimal traceability to requirements is shown	Many tests are not associated with requirements	associated with	All tests are traced clearly to requirements
Engineering Practices	Document does not contain a revision history or any referencing	Document is either missing a revision history or nothing is referenced.	Document contains a revision history and some references exists, but they are minimal.	Document contains a revision history but references are a little light	Document contains a revision history, and proper references to both external documents and internal sections
Readability/ Organization	Document is a jumble and impossible to follow	Document is legible, but there are many spelling, grammatical or logical errors making it very difficult to follow.	Organization of document is confusing or prose is too convoluted, making the document more difficult to read and understand	Document is well organized, but there are some areas that are confusing. Also, document could be too long and repetitive.	There is a logical flow to the document and prose is clear and concise.