

WesTest Test Program Sets & Custom System Level Software

In This Business Confidence Matters

WesTest Engineering Corporation offers turnkey test solutions for the military and aerospace sectors. Our engineering capabilities present an unmatched ability to take customer test requirements and design, develop and integrate Test Program Sets (TPS) with diagnostics to the component level. This is further supported by a full complement of documentation, from Test Requirements Documents, to TPS Flowcharts, to Test Reports. With 36 years' experience and 1000+ TPSs in our history, the WesTest Engineering Staff remains as one of the top notch senior staff's in the TPS sector today. Our leadership and program management have the historical experience to lead WesTest capability to meet the customer's requirement.



TPS Development Process

With many years of historical experience, WesTest Engineering has proven and mature processes that guide each step in a quality program unmatched for TPS Design, Development, Integration and Support. While these processes are much too extensive to detail here, a more detailed presentation can be made available. Here is an overview:

Requirement and Data Analysis – Our Program Manager will oversee all aspects of this initial step. At WesTest we feel this is absolutely the most important step to develop a good foundation for a high quality, complete implementation of a test capability for any Unit Under Test, no matter the complexity. At WesTest this is a very real focus.

Program Plan – Again, as with all steps in our TPS Process, the Program Manager plays a key role in organizing not only the requirements, but also forming the team that is best suited for the requirement. As part of this, he works with the team to analyze and breakdown a complete Program Plan. This includes all aspects of the program, from design, development, performance schedule and milestone definition. The Program Plan is presented to and approved by the customer and his team.

TPS Design – As a reminder, the TPS includes Software, Hardware and Documentation. The TPS Design Process includes a Preliminary Design, Critical Design and Final Design. Each of these phases of the process is accompanied by a review with the customer and his team. Minutes, comments and action items are assigned and tracked. The Final Design will be implemented and tracked to all artifacts per the Program Plan. These are all available on the WesTest website and reviewable by the customer at any time.

TPS Development – True to the Final Design, the WesTest team will develop all Software, Interface Fixturing and Cable Sets in support of the Test Strategy. The Program Manager reviews the progress, at a minimum, weekly and reports to the customer as required. Intermediate internal reviews are held and documented as part of the artifact depository for all development.

TPS Integration – This is truly the secret sauce to WesTest success. It takes insightful experience to truly understand and implement a good integration plan. Our Engineering Staff is unmatched in the TPS sector and are uniquely qualified for any integration anomaly. This is where the rubber meets the road and our processes and techniques are mature and proven.



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ELEVATED CONFIDENCE

WesTest Test Program Sets & Custom System Level Software

Adaptable • Flexible • Scalable

USAF F-16 Depot – Ogden Air Logistics Complex



WesTest Engineering has been the selected contractor for the Ogden ALC F-16 Depot for over 10+ years. Operating under Indefinite Delivery Indefinite Quantity contracts, WesTest Engineering provides both hardware and software capability to the USAF to facilitate the diagnostics and repair of the F-16 SRU articles.

As part of those provisions, WesTest Engineering has designed, developed, integrated and supported 400+ TPSs for the F-16 and assorted other F-16 support equipment and LRUs.

As always, these TPSs included not only the actual Test Program and its inherent Test Strategy, but the Interface Test Adapters, Cable Sets and associated USAF required documentation.

WesTest Engineering – Software Development Environment

WesTest Engineering is experienced at all levels of software design and development. As part of that capability, WesTest offers a Software Development Environment (SDE) unmatched in its flexibility and maturity. It has been adopted and approved by the USAF for the F-16 Depot. In its native form, it centers on the IEEE ATLAS 716-1995 Standard for its application, however is rapidly adaptable to LabWindows/CVI and LabView. The SDE uses authoring tools and produces many reports and informational tables as part of a self-documenting environment. Again, there are way too many aspects to the WesTest SDE to present here and much more detailed presentation is available upon request. Here are some highlights.

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