

LTC Solutions | Test and Evaluation Services

SAVING TIME & MONEY WITH TEST AND EVALUATION

As revolutionary products and technologies emerge more rapidly than ever before, the Department of Defense's (DoD's) Test and Evaluation (T&E) Subject Matter Experts (SMEs) are entrusted with balancing rapid acquisition and implementation of those technologies with safety and reliability for the end users. The DoD's regulations and delivery protocols have become more rigorous and thorough, resulting in the need to exhaust more time and money to meet requirements and move new technologies into the hands of users.

LTC's T&E SMEs are among the best at expediting delivery and integration of new technologies. Our team is best known for employing technical know-how and experience to ensure safe and rapid delivery of equipment while saving our clients millions of dollars and hundreds of hours during the acquisition process.





A TRUSTED PARTNER FOR DoD ORGANIZATIONS

With more than 40 years of combined experience, LTC's SMEs have a long history of support to the DoD (specifically the USMC and Army) in uniform, as civilians, and as contractors. Our comprehensive T&E support includes contributions to optimal system design (through systems engineering, user community interface, and capabilities development) to comprehensive T&E support. Our SMEs strive to establish and maintain a strong focus on client priorities, ensuring flexibility and efficiency in coordinating and supervising each event to reduce total time expended and improve project schedule parameters. Our T&E team provides professional deliverables and comprehensive integrated test analysis that considers all functional program areas. The DoD trusts LTC specialists with the testing, documentation, and consistency required to meet or exceed schedule, budget, and performance goals for every program we support.



BACKING MARINES WORLDWIDE

All of our T&E SMEs have unique and extensive military backgrounds, allowing them to leverage operational real-world experience and personal insight. This enables them to provide an invaluable perspective to the client when making decisions around system requirements and options. We strongly believe that crucial details can often be seen only through the right set of eyes. As such, LTC has supported programs where our SME recommendations resulted in significant changes based on intimate knowledge on issues that would have gone unrealized from untrained perspectives. The USMC relies on LTC's T&E SMEs working together with Government engineers, officers, and managers to ensure that the system requirements established by the operational community are efficiently achieved. This means our objective is to deliver current operational technologies, safe and thoroughly tested, within the shortest timeframe possible.





STAYING UNDER BUDGET AND ON SCHEDULE

LTC's T&E SMEs use these strategies and techniques to increase speed and decrease cost:

1 End-to-End T&E Support and Time Savings.

LTC T&E SMEs help define requirements, generate documentation, and develop test plans. We work to identify critical test events that account for most of the test schedule. Using this knowledge, we develop strategies, techniques, and procedures to save T&E process time and accelerate the overall acquisition process.

2 Solid Relationship Building with Test Facilities.

LTC believes building solid relationships with all test facilities (military, civilian, and commercial) is essential. When we are building a test schedule and a standard test facility is unavailable or insufficient, we work with other government-approved test facilities to meet our requirements and objectives. Additionally, due to our vast test facility network, and great working relationships with all test facilities, LTC is guaranteed to find open doors whenever building a test schedule that increases accessibility and efficiency while lowering costs and wait times in most cases.

3 Concurrent Testing.

When our client requires testing to be expedited, rather than going to one test facility and performing all tests sequentially, having access to a myriad of facilities allows us to break up available test assets, send them to different facilities, and manage them concurrently while performing several tests in parallel. This drastically reduces the time expenditure and compresses the overall schedule.

4 Obtaining Best Test Facility Prices.

While not commonly known, it is often possible to arrange with test facilities to obtain lower prices for future test events. LTC's SMEs take full advantage of this fact, leveraging strong relationships we build with every test facility to ensure we get the lowest possible prices while meeting scheduling needs, thus saving our clients thousands of dollars.

5 Obtaining Vendor Test Results.

LTC's T&E team takes advantage of data obtained by and/or recorded from the vendors' test events. To save time, when possible, we organize resources to witness a vendor's testing and use this data in lieu of arranging and conducting separate Government-sponsored test events. When it is not possible to participate in vendors' test events, our SMEs connect with test facilities to obtain the vendors' test results and data to reduce the Government's overall test event timeline and requirements.

6 Test Results without Testing.

Through vast experience and forward thinking, LTC's T&E SMEs participate during the equipment design phase and can predict test outcomes. This allows them to design test events and procedures to reflect realistic and achievable objectives, resulting in better results with lower consumption of resources (time, money, and personnel).



LTC SOLUTIONS HELPS DoD AVOID \$225M RADIOS COST

The USMC was getting ready to buy new radios with new technology for Marines in the field. LTC's T&E team familiarized themselves with the communications requirements and how best to test them prior to acquiring the radios. It was known that the radios were already in the Army inventory in significant numbers; however, knowing USMC's unique requirements, LTC remained on guard against a historical notion that "if it was good for the Army, it should be good for the USMC."

Shortly after joining the team, the Government client directed that LTC write and execute a test for a User Evaluation using active-duty Marines during a field operation. The evaluation revealed several significant radio issues that had the potential to negatively impact both mission and safety. The Government notified the vendor, who subsequently performed tests and advised that their results were favorable. Not satisfied with this outcome, LTC's T&E team worked with the client to write and execute a series of additional laboratory and field tests based on the system requirements and simulated real-world operational expectations. The tests that followed considered required performance usage, real-world temperatures, solar loading, and expected configurations.

The LTC test results identified, documented, and described the issues. This aided our Government client in concluding that the technology was indeed not mature enough to support operational requirements in a real-world environment where Marines would expect to encounter high environmental temperatures. Our client ultimately opted to forego the radio purchase, and immediately began seeking alternatives. The cost avoidance to the Government translated into approximately \$225M worth of ground radios that would have been deemed inadequate by the Marines. LTC's attention to detail and diplomacy also resulted in maintaining a good relationship with the vendor and helped our Government client convey the USMC's test results to the Army to aid them in future purchase decisions.