

**Homework Assignment 1: Your Own Test Plan**

Draft a one to two page outline of a test plan for measuring the minimum safe arming distance Critical Technical Parameter (CTP) for the SRAW. This should be a DT&E test plan for evaluating the capability of the SRAW to arm itself a minimum safe distance from the Marine that fires it. Follow the guidance on the next page. The SRAW CDD and TEMP can assist you in identifying the proper criteria for this effort and provide other useful information. You can access these documents by selecting the 'Resources' button in the upper right area of this page and then selecting 'SRAW References' in the pull-down menu.

Your SRAW test plan outline must cover the following seven areas:

- Test Objective;
- Test Scenarios/Set-up;
- Success Criteria;
- Test Article Configuration;
- Test Article/Target Requirements;
- Confidence Levels;
- Test Limitations.

**The next screen will give you details about specific questions that need to be answered in each area to help focus your response.**

Good Luck!



### SRAW Outline Test Plan Criteria

Your SRAW Test Plan must have the following seven subject area headings. Within them, make sure you address the following:

- **Test Objective:** What is the purpose for conducting this test?
- **Test Scenarios/Set-up:** Describe specifically how you will set up this test (in the lab and/or field) in order to measure proper functioning of the SRAW CTP. Do not simply paraphrase the TEMP or describe the overall DT approach.
- **Success Criteria:** What defines a successful test? A failed test? Hint: How will you know if an individual test is a success? How will you know if the series of tests is successful? Define all three conditions: event success, event failure, and successful test series.
- **Test Article Configuration:** Describe the test article? Do you need full-up systems, or components? Do they need to be inert or "live"? What instrumentation (if any) should the test article have?
- **Test Article and Target Requirements:** How many test articles does the program manager need to buy for your test plan? How many targets do you need? What kind of targets? Hint: Justify your test article requirements using the confidence levels in the next section.
- **Confidence Levels:** What is the statistical basis for your test? What confidence level and reliability do you expect your test to demonstrate? How many failures should you assume? What probability distribution did you use (binomial, exponential, etc.)? Hint: review Lesson 11. You may want to use the trusty nomograph provided in the SRAW References under the Resources tab.
- **Test Limitations:** Does your test provide enough information to accurately predict the performance of a production SRAW for the minimum safe arming distance parameter? What additional testing may be required to ensure the production SRAW meets this CTP?

**Submit your SRAW Test Plan for grading via e-mail to your lead instructor at their e-mail address. A passing grade is required for graduation. Your e-mail subject line should read: "SRAW Test Plan".**