

MR. HARTSOUGH'S NAVY CAREER

Senior Surface Ship Shock Delegated Approval Authority

For over two decades, Mr. Hartsough was the U.S. Navy NSWCPD's senior delegated approval authority (DAA), entrusted with the highest level of approval. His expertise spans non-standard tests, alternate vehicle tests, component & antenna tests, and all hull, mechanical, electrical, communications, and combat systems equipment on all surface ships.

Educator : As the lead Navy educator on shipboard equipment shock qualification, he provided the Navy community with training and knowledge for over 20 years. His expertise also extends to hosting tutorials at the Shock & Vibration Symposium, supporting MIL-DTL-901E testing, shock qualification extensions, component testing and failure modes in shock testing.

Experience: Over his 34-year at NSWCPD, Mr. Hartsough played pivotal roles in Full Ship Shock Trials (FSSTs), Total Ship Survivability Trials (TSSTs), and ship class shock inspections. He served as the survivability In Service Engineering Agent (ISEA) for transparent and small arms composite armor, and he also served as an action officer at LFT&E of OSD/DOT&E.



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901ENGINEERING & TRAINING

(856) 383-4402

SERVICES OFFERED TRAINING

- 5-Day Comprehensive MIL-DTL-901E Equipment Shock Qualification Training
- 1-Day Focused Training:
 - Shock Extensions
 - Isolation Systems and Isolator Selection
 - Component Testing

CONSULTING

- Pre-test equipment design reviews
- Test Plan review
- Test Procedure review
- Test Site Support
 - Witness Testing
 - On-site Failure Analysis
 - On-site Test recommendations
- Test Report reviews
- SBIR Teaming



**\$AVE TIME
AND MONEY
WITH
MIL-DTL-901E
Training 1 to 5
DAY CLASS**

Presented by:

KURT HARTSOUGH

Test it Right the First Time Save Time and Money

By the end of this intensive course, participants will be equipped with the knowledge and strategies to craft a streamlined, cost-effective shock qualification test programs.

Key Learning Areas:

- The Navy's shock qualification process.
- Roles, responsibilities, and contractual stipulations.
- Choosing the test platforms and their constraints.
- Navigating shipboard integration, test fixture demands, and operational standards.
- Test failure redesigns and material selections.
- Insight into shock isolator selection, COTs requirements, and design recommendations for shock isolators.
- Addressing design modification retesting.

Outcomes:

- Proficient understanding of testing and documentation as per OPNAV 9072.2A and MIL-DTL-901E standards.
- Interpreting and simplifying test specifications, minimizing confusion and contradictions.

Course Background:

This is an evolved continuation of the training provided at the S & V Symposium since 2002. This course focuses on saving time and money

Location: California MD

1-4 and 5-DAY COURSE

Acquisition Introduction

Aug 17th \$600

**MIL-DTL-901E Testing and
Extensions 4-DAY COURSE**

Aug 17th -20th \$2400

**Full Class - including Shock
Isolators/Component
Testing/Design Guidelines
COURSE**

Aug 17th -20th \$2750

WHO BENEFITS FROM THIS TRAINING

- Equipment Manufactures
- Shipboard Equipment Integrators
- Acquisition Officials
- Shock Test Facilities
- Navy and Contractor personnel responsible for equipment shock qualification approval

5-DAY COURSE

AGENDA

- Background and history of shipboard equipment shock qualification
- US Navy Acquisition requirements and responsibilities
- Shock Qualification Process
- MIL-DTL-901E Testing
- Shock Qualification by Extension
- Component Testing
- Shock Test Failure Modes
- Shock isolation selection and correct testing methods
- Calculation of equipment Shock Response Frequency (SRF)
- Review of test setups and non-standard fixtures prior to submittal to the Navy for approval
- HiTest Demonstrations and facility tour*