

## MIL-STD-461G Test Methods and Compliance

### DESCRIPTION:

Military and Aerospace Systems must comply with Electromagnetic Compatibility (EMC) requirements. MIL-STD-461G is applied to Department of Defense (DoD) procurements for equipment and subsystems.

MIL-STD-461G test and evaluation methods will be presented, including system requirements, general requirements, test article configurations, and documentation. This course offers critical information for military compliance professionals, testing industry professionals, and developers involved with electronics systems development. Instruction for each of the MIL-STD-461 test and measurement methods along with analysis of the test results will be covered.

This course provides detailed focus on performing the testing, reducing and understanding the data and managing test problems. It features practical methods to address the complexity of the standard configuration along with concepts to manage the unusual product types.



This is an iNARTE approved training course and qualifies for CPD credits required for continuing certification. If you are not iNARTE certified – Compliance Direction can provide guidance on obtaining your certification.

### WHO SHOULD ATTEND:

EMC Test Engineers and Technicians  
Program/project managers responsible for EMC evaluation oversight  
Anyone who interprets EMC data or troubleshoots EMC issues  
Design engineers responsible for EMC

### PRESENTER:

Steven G. Ferguson is the owner of Compliance Direction, LLC and has been working in the compliance test arena for over 40 years at test laboratories and manufacturing companies designing products, developing procedures, and performing tests. He presents various courses on EMI/EMC compliance including EMC for Nuclear Power Facilities, Architectural Shielding, Electromagnetic Environmental Effects (EEE) and this course on MIL-STD-461 testing at customer facilities on-site for multiple government and industrial clients. He holds an iNARTE EMC engineer certification. Contact him at [stevef@compliancedirection.com](mailto:stevef@compliancedirection.com)

**OUTLINE:**

Basic Concepts of Electromagnetic Effects

Terms and Definitions

EMI – The Problem

Measurement Units (The Decibel)

Electromagnetic Environment

Standards: MIL-STD-464C, MIL-STD-461G

Data Item Descriptions (Control Plans, Test Procedures, Test Reports)

Managing your EMI/EMC test program

Emissions and Susceptibility, General concepts

Interface Requirements / Facility requirements

Configuring the test article

Instrumentation

Test Methods (MIL-STD-461G/F)

Conducted Emissions

- CE101, CE102, CE106

Conducted Susceptibility

- CS101, CS103, CS104, CS105, CS109, CS114, CS115, CS116, CS117, CS118

Radiated Emissions

- RE101, RE102, RE103

Radiated Susceptibility

- RS101, RS103, RS105

Summary and Review