



SPHEREA

SPHEREA TEST & SERVICES

SigBase 1641 IDE 2 Day Training Course

Introduction

IEEE Std 1641 (IEEE Standard for Signal and Test Definition) is the standard which is now mandated by MOD policy for new Automatic Test Systems or Test Program Sets. This standard, when used with a test system that complies with the MOD requirements for an Open System Architecture (OSA), provides a test solution that may be maintained over the time periods required by military and commercial aviation maintenance organisations. An environment to aid development of Test Program Sets (TPS) is provided by Spherea's newWaveX integrated into EADS North America's product SigBase, Spherea is offering a 2 day course to explain how SigBase and the integrated newWaveX may be utilised in TPS development.

Benefits

The MOD is now demanding that all new support solutions to be maintainable over the whole life of the target system. This has introduced a requirement for all new ATS to have an OSA, which facilitates the ongoing maintenance, upgrading and eventual replacement of the base test system. By utilising SigBase, developers may ensure that their TPSs are able to fit within the OSA through the use of IEEE 1641 signals. This course provides detailed information on how developers can produce a TPS utilising SigBase and the integrated newWaveX.

Course objectives

This course introduces the visual development process within SigBase. Students learn how to create and populate test strategies that describe the testing sequence of units under test. A review of the IEEE 1641 standard is included and a description of how signals and Test Signal Framework (TSF) models are defined using newWaveX. The course includes a practical element in which students gain hands-on experience by completing exercises to enhance the understanding of the processes involved.

Who should attend

ATS Developers who are responsible for specification, acquisition or development of ATS, Test Requirements or Test Program Sets.



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Course content - summary

- Background to the development of the OSA-RTS.
- COTS Components and their roles in the toolkit.
- Overview of the Requirements of the OSA-RTS Architecture.
- Basic 1641 understanding
 - ✦ Structure of the standard
 - ✦ Using the 1641 standard
 - ✦ Graphical programming
 - ✦ Physical signals, events and digital streams
 - ✦ Signal & Test Definition (*What, When, Where*)
- Using 1641 with newWaveX
 - ✦ Signal elements
 - ✦ How to do measurements
 - ✦ Test Signal Frameworks (TSFs)
- SigBase Overview
- Using SigBase
 - ✦ Description of process of creating a program with the SigBase IDE
 - ✦ Hands-on exercises
- Creating Digital Programs
 - ✦ Generic digital features
 - ✦ Digital TSFs
- Conclusions & summary.

Course organisation

- Courses are held at our Ferndown training centre.
- Refreshments are included.
- Course notes are provided for all attendees.
- Courses may be provided at customer's premises by special arrangement.
- For available dates and course prices, please contact Spherea.

Related Courses

- IEEE 1641 Management Overview
- IEEE 1641 Technical Primer
- IEEE 1641 Signal User/Developer

- Open System Architecture & IEEE 1641
- Open System Architecture Runtime System Overview



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