



SPHEREA

SPHEREA TEST & SERVICES

SigBase 1641 IDE 1/2 Day Refresher 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 half day refresher course to re-introduce 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 refresher course revisits the SigBase 1641 IDE course by re-introducing each of the topics. The topics may then be covered in more detail as required by the attending students.

Who should attend

ATS Developers who have previously attended a SigBase IDE course and have been unable to utilise these skills and require re-familiarization with the product and processes.



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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
- SigBase 1641 IDE



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