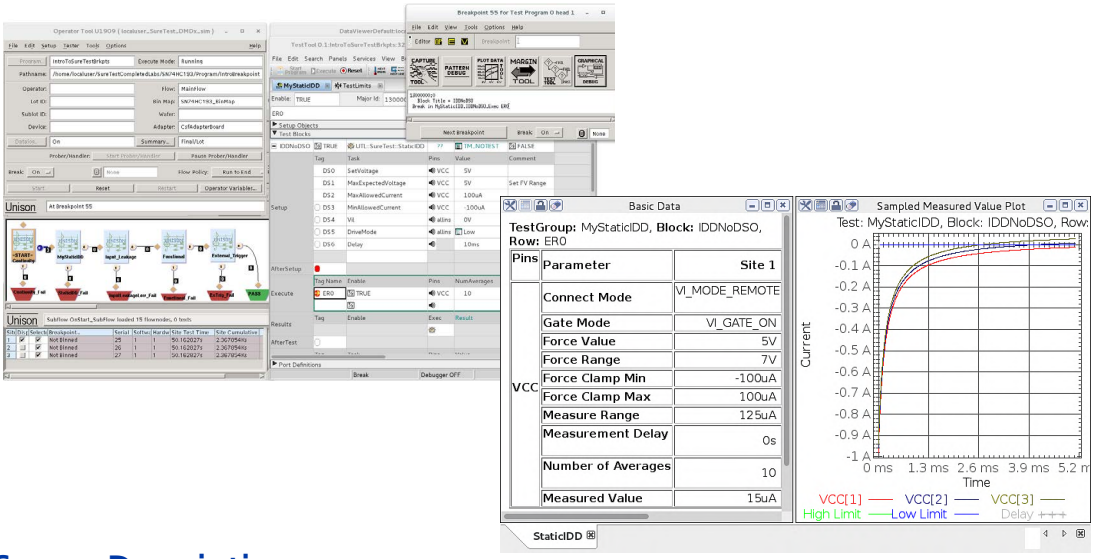
SureTests

Unison-supplied, Run-time optimized, Device-centric test modules



Automotive

Mobility

IoT/IoV & Optoelectronics

Computing & Network

Industrial & Medical

Consumer

Course Description

This eLearning material introduces the student to SureTests - Unison supplied, run-time optimized, device-centric, test modules that provide plug-and-play test construction within a Unison test program. Using SureTest modules can lead to improved test program development and debug time and reduces your need to understand programming differences between testers and instruments. On completion of this course, the student will be able to describe the purposes of the supplied SureTests and demonstrate a working knowledge of using SureTests in a Unison test program. This is accomplished by a combination of multimedia presentations and interactive software demonstrations.

Course Outline

- Introduction and Benefits
- Functionality and Theory of Operation
- Programming – Getting Started
- Programming – Going Deeper
- Programming – Intro to Breakpoints
- Programming – Test Context
- Program Trace Feature and I/O Stream

Course Length

- Self-paced – 5-6 hours typical depending on skill level

Prerequisites

- Six months test program experience
- Successful completion of Unison Applications Programming course

Recommended

- Familiarity with Unison Test Tool
- Familiarity with Linux Operating System
- English - written and spoken

- **Improved test program development and debug time**
- **Executed with no additional C++ coding required**
- **Optimized for run-time performance**
- **Built-in debugging features**
- **Program Trace feature supported**
- **Encapsulates years of Cohu test expertise**

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Course Modules

1 - Introduction and Benefits

On completion of this module the student will be able to.

- Describe the purposes of a SureTest
- Recognize how using these modules can lead to improved program development and debug time

2 - Functionality and Theory of Operation

On completion of this module the student will be able to:

- Describe the sections of a SureTest
- List the DeviceSetup Object features
- Understand the SureTest Referenced Output Expression (ROE)
- Summarize SureTest BreakPoint features
- List the SureTest Program Trace capabilities

3 - Programming: Getting Started

On completion of this module the student will be able to:

- Demonstrate the ability to insert a StaticIDD SureTest into a test program using the FlowTool
- Use the StaticIDD SureTest in testing a 4-bit counter SN74HC193 device

4 - Programming: Getting Deeper

On completion of this module the student will be able to:

- Demonstrate the ability to insert a StaticIDD SureTest into a test program using the TestTool
- Use the StaticIDD test in testing a 4-bit counter SN74HC193 device
- Create and use a SureTest DeviceSetup Object

5 - Programming: Intro to Breakpoints

On completion of this module the student will be able to:

- Understand the SureTest breakpoint system
- Demonstrate a working knowledge of the breakpoint system in a SN74HC193 device test program

6 - Programming: Test Context

On completion of this module the student will be able to:

- Demonstrate a working knowledge of some of the Test and Contextual SureTest breakpoint features useful for characterization and debug purposes

7 - Program Trace Feature and I/O Stream

On completion of this module the student will be able to:

- Recognize the SureTest Program Trace capabilities
- Demonstrate a working knowledge of some of the features

- **Improved test program development and debug time**
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Who Should Attend

- Test Program development and support engineers

Course Viewing Requirements

To view the course, you must have:

- Browser supporting HTML5
- Audio-listening capabilities (such as a headset or speakers)
- Connection speed of at least 600 kbps

Course Cost

- Access is free of charge for all Cohu Semiconductor Tester Customers

Cohu, Inc.
12367 Crosthwaite Circle, Poway, CA 92064-6817
Tel. +1 858.848.8000 I info@cohu.com I www.cohu.com
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