Keysight Technologies
Digital Testing Using Logic Analyzers
Course Overview

Course Numbers:
Keysight Training Center: H7240A #104
Onsite Training: H7240B #104

Learn digital logic testing fundamentals employing Keysight Logic Analyzers

Course Overview

This one-day class, presented by Keysight Technologies, Inc., will teach the student to configure and use the 16700 series of Logic Analysis tools to design and debug digital systems.

What You will Learn

– The student will learn to configure and use the 16702B Logic Analyzer with a 16750A 400 MHz State / 2 GHz Timing Zoom Logic Analysis Cards, Double Probing Adapter, and Ripple Counter Demo Board.
– The student will develop an understanding of Logic Analyzers that will allow them to use this powerful debug tool more effectively in applying their intuition to tough digital design problems.
– You will gain insight into the full range of Logic Analyzer capabilities through background presentations and reinforcing examples.
– The course will equip the student with knowledge essential to using a Logic Analyzer, focusing on areas where users will typically spend the most time.

– Curriculum learning is combined with demo-style laboratories that can be repeated at the student's convenience, utilizing provided course materials.

Specifications

Course type

Application/User Training

Audience

Hardware engineers, software engineers, technicians, lab managers, or anyone who wants to better understand methods for solving digital design problems using Logic Analyzers.

Prerequisites

Attendees should have a basic understanding of digital circuits.

Course length

1 day

Course format

50% Lecture and 50% Equipment Driven Instruction

Delivery method

Scheduled at Keysight locations, or

Dedicated at a customer site.

To save you time and travel, many Keysight courses can be delivered at your site. Keysight can provide required equipment, or you can save money by furnishing your own.

Detailed Course Agenda

I. Presentation Instruction

– Introduction and Overview
– State Mode Logic Analysis
– Timing Mode Logic Analysis
– Understanding the Trigger Sequencer
– Using Multiple Measurement Modules
– Exploring Set-up and Hold with Eye Finder
– Probing

II. Course Equipment Instruction

– Introduction to Timing Analysis
– Introduction to State Analysis
– State and Timing Analysis
– Counters and Timers
– Complex Triggering
– Intermodule Bus
– Set-up and Hold

For the latest information on class schedules and locations visit our website:
www.keysight.com/find/education

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