

# Programming with HP Serial Test Language on the HP 3079CT

## **Technical Data**

### Course Overview

This course introduces HP 3079CT users and programmers to the Serial Test Language used to test serial bit streams on printed circuit boards.

## **Course Features**

- Gain experience programming in the HP Serial Test Language (STL)
- Learn the Serial Test hardware and software architecture of the HP 3079CT
- Learn to emulate and test standard and proprietary (non-standard) serial bit streams up to 12.5M
- Learn how to write a serial test setup with stream,
  substream and process sections
- Learn how and when to use downloadable filters
- Learn how to do a multichannel bit error rate test
- Learn how to program the S-bus, U-bus, and Transistor, Transistor, Logic (TTL) personality modules to their best advantage

## **Specifications**

Course Length 5 days

Audience Test Engineers, Test programmers

## Prerequisites

Previous exposure to programming any HP 3070 system is beneficial but not required. Knowledge of Serial Bit streams that need to be tested is helpful.

### **Delivery Method** Classroom

#### **Format**

Course content is 40% lecture and 60% lab. This course includes extensive lab work on a variety of subjects and levels of difficulty. Students will write programs that progress from simple clock generator exercises to advanced serial testing problems.

## HP Education Services: Your Key to Higher Productivity

## Classroom Training Benefits

Experienced HP Instructors Learn from an experienced HP instructor who is an expert in using and applying instrument systems to meet your measurement needs.

Available at HP Classrooms
Take advantage of HP's learning
facilities, equipment, and
interactive learning environment
by attending class at an HP facility.

# Regularly Scheduled Classes

Plan training months in advance.

# Extensive Hands-on Practice

HP classroom training is characterized by extensive hands-on experience and interactive class discussion. HP classroom training pays off immediately because it is geared to real-world solutions.

# Comprehensive Student Materials

Copies of course materials are provided for future reference on the job.

Course Number: E1096A+24D (scheduled)

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## Course Agenda

## Day 1

- · Hardware Overview
- Software Overview
- Introduction to HP STL
- Streams, Filters, and Processes
- Clock generators
- Synchronous stream formats

## Day 2

- TTL Personality module operation
- · Transmit and Receive
- Triggering

#### Day 3

- Single and multichannel BER
- Synchronous faw bunched stream
- Synchronous G.732 stream

### Day 4

- Filters
- Asynchronous streams

#### Day 5

- S-bus & U-bus Interface Personality Modules
- S & U Interface Frames
- S & U Interface standard Tests
- Modes, types, frame structure
- Connections
- Termination
- Loopback
- Activation

## **Ordering Information**

To order the Programming with HP Serial Test Language on the HP 3079CT (1096A+24D) course in the U.S. call 1-800-HPCLASS (800-472-5277).

Outside the U.S., contact your nearest local HP sales office.

#### Region Sales Headquarters:

#### United States:

Hewlett-Packard Company Test and Measurement Organization 5301 Stevens Creek Blvd. Bldg. 51L-SC Santa Clara, CA 95052-8059 (408) 246-4300

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