

---

# HP 3070 Family User Fundamentals Training

## Technical Data

### Course Overview

Gain an understanding of the seven steps in the test development process and the HP 3070 family file structure. Learn how to use IPG Test Consultant to develop board test programs, debug analog and digital in-circuit tests, write and debug an analog functional and mixed in-circuit test, and perform CAD translation. Now includes Test Jet and Series II training.

### Course Features

- Understand each of the seven steps of the test development process
- Understand the HP 3070 Programs and Files Chart
- Understand the HFS file system and the HP 3070 File Structure Chart
- Use IPG Test Consultant (IPGTC) to develop board test programs for three different training printed circuit boards
- Understand the fixture reports generated by Fixture Tooling and use the user contributed software to view the fixture and plot files.
- Debug analog and digital in-circuit tests

- Write and debug a custom digital in-circuit tests
- Write and debug an analog functional and mixed in-circuit test
- Perform an engineering change order (ECO) on the class board
- Make an archive of their board directory using IPGTC

### Specifications

#### Course Length

10 days

#### Audience

Engineers and technicians responsible for developing HP 3070 board test programs.

#### Prerequisites

None

#### Delivery Method

Classroom

#### Format

Instruction consists of a combination of audio-visual, lectures and lab exercises.

**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 or Your Site

Take advantage of HP's learning facilities, equipment, and interactive learning environment by attending class at an HP facility. Or, save travel expenses and time by organizing a dedicated delivery at your location.

**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.

---

## HP 3070 Family User Fundamentals Training (E1031A)

### Course Agenda

#### Week 1

- Introduction to the Class
- Materials Needed (Step 1)
- Describing the PC board (Step 2)
- Introduction to HP 3070 Series II Hardware (Step 2)
- User Basics (Step 2)
- Introduction to Class Board (Step 2)
- HP Board Consultant (Step 2)
- HP IPG Test Consultant (Step 2 & 3)
- HP Fixture Consultant
- Fixturing (Step 4)
- Turning on the test Shorts Testing (Step 5)
- Turning on the test Pins Testing (Step 5)
- Turning on the test HP PushButton Debug - Shorts & Pins testing (Step 5)
- Turning on the test Analog In-Circuit Test (Step 5)
- Turning on the test HP PushButton Debug - Analog Testing (Step 5)
- Turning on the test Overview of Power Testing and Digital In-Circuit Testing (Step 5)
- HP PushButton Debug Digital Testing (Step 5)
- Release to Production (Step 6)
- Engineering Change Order (Step 7)
- Introduction to Flash Board

#### Week 2

- Introduction to Integration Board

- Mixed Test Concepts
- Pattern Capture Format
- Move about HP PushButton Debug
- Introduce Class Board II
- Translate CAD data & Part Description Editor
- HP PushButton Debug on Classbd2
- The Wildcard Modules
- Panel Test User Training
- Throughput Multiplier
- Boundary Scan Fundamentals
- Preconditioning
- Datalogging & PushButton Q-Stats, Paperless Repair & Q-Stats II
- HP-UX for Board Test User
- Flash Board: Start to Finish
- Integration Board: Start to Finish
- Arbitrary Waveform Generator & Digitizer
- HP TestJet
- FlashRAM Programming
- AutoAnalog Debug
- HP 3070 to Series II Upgrade
- processes clean

### Ordering Information

To order the HP 3070 Family User Fundamentals Training (E1031A) in the U.S. call 1-800-HPCLASS (800-472-5277).

HP's Customer Registration Center can provide you with price, scheduling, and enrollment information.

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

#### Canada:

Hewlett-Packard Ltd.  
5150 Spectrum Way  
Mississauga, Ontario L4W 5G1  
(905) 206-4725

#### European Headquarters:

Hewlett-Packard S.A.  
150, Route du Nant d'Avril  
1217 Meyrin 2 - Geneva, Switzerland  
(41) 22/780 8111

#### Japan:

Hewlett-Packard Japan Ltd.  
NAF Bldg.  
3-8-20 Takaido-higasi  
Suginami-ku  
Tokyo 168  
(03) 3335-8111

#### Latin America:

Latin America Region Headquarters  
Monte Pelvoux No. 111  
Lomas de Chapultepec  
11000 Mexico, D.F. Mexico  
(525) 202 0155

#### Australia/New Zealand:

Hewlett-Packard Australia Ltd.  
31-41 Joseph Street, Blackburn  
Victoria 3130, Melbourne, Australia  
(03) 895-2895

#### Far East:

Hewlett-Packard Asia Ltd.  
17-21/F Shell Tower, Times Square  
1 Matheson Street, Causeway Bay  
Hong Kong  
(852) 2506-9285

Technical information in this document is subject to change without notice.

Copyright Hewlett-Packard Company 1997. All Rights Reserved. Reproduction, adaptation, or translation without prior written permission is prohibited, except as allowed under copyright laws.

Printed in USA 5/97

Publication Number 5962-9209EUS

Course Number: E1031A (scheduled)