Production Support Training

Flexible, Cost Optimized Test Solutions

Automotive

Mobility

IoT/IoV & Optoelectronics

Computing & Network

Industrial & Medical

Consumer

Course Description

This Production Support Training (PST) training course is designed to equip the engineer with understanding various ATE system operations. This is achieved through a combination of lectures and lab exercises demonstrating to the student how to analyze processes and determine corrective actions. After completing this course, students will be able to debug test programs on the Diamond Series test platforms and the Unison software.

Course Outline

- Overview
- Hardware Overview
- Unison Release Versions
- Test Program Structure
- Production Interface Tools
- Basic Unison Concepts
- Debugging
- Program Assistance
- Advanced Topics

Course Structure

- Three days, including classroom and practical exercises

Prerequisites

- Six months of production support experience
- Diamond$_X$ or Pax maintenance course
- English - written and spoken

Recommended Skills

- C or C++ programming experience
- Familiarity with Unix and Linux operating systems

Applicable Test Systems and License

- PAx, Diamond$_X$ and DxV test systems
- U1709 as the minimum OS release
- Development Unison license must be available on test system used for this training

Who Should Attend

- Test program support engineers
- Test system technician leads

- **Next-gen test system for a wide range of applications**
- **Scalable high-throughput architecture**
- **Flexible configurations and solutions**
- **Small form factor**
- **Air cooled architecture and instruments**
- **Compact low power technology**

Production Support Training

Course Modules

The first sections of the course familiarize the student with the common safety procedures and symbols used to identify hazards.

1 - Overview

- Introduction
- Personal safety and equipment protection

2 - Hardware Overview

The student will learn the general specifications of the various instruments installed in the test system.

- System and instrument overview
- Instrument diagnostics
- Workstation (PC) and dual boot operating systems
- Prober/handler communications using CURI

3 - Unison Release Versions

Identifying what Unison OS release is being used on the test system.

- Unison release components and plugins
- System calibration under specific Unison release
- Executing wsConfig

4 - Test Program Structure

Identify and understand the various file extensions used in a test program.

- Program file structure
- Understanding TPRA

5 - Production Interface Tools

- OICU
- Attaching the Operator Tool
- CURI

6 - Basic Unison Concepts

An introduction to the commonly used Unison tools for program development and debugging. Featured tools include:

- PackageTool
- FlowTool
- TestTool
- BinTool

7 - Debugging

Understanding what debugging methodology should be used to determine root cause of production issues.

- Process for reading test failures
- Identifying instrument resources on the load board

The various debugging tools available to conduct root cause analysis. Featured tools include:

- Graphical Debug Tool
- PatternDebug Tool
- WaveformCapture Tool

8 - Program Assistance

Understanding the various avenues available to connect with support teams and share test program information.

- Establishing a VNC Session
- Xpedite Help Center
- linperf

9 - Advanced Topics

- stlist Utility
- RTS
- Margin Tool

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