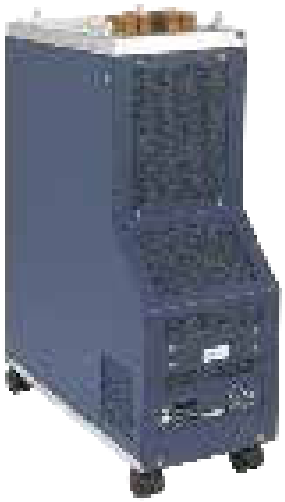
DxV Test System Maintenance

Changes the Rules of Design through Production Test
Course # 3000e



Automotive

Mobility

IoT/IoV & Optoelectronics

Computing & Network

Industrial & Medical

Consumer

Course Description

This eLearning material provides the student with the necessary skills to maintain the DxV Test System. The training will provide the student with an overview of the system, the theory of operation, the system specifications, and field replaceable units (FRUs). On completion of the course, the student will be able to recognize the general features of the DxV Test System, describe the functional overview and theory of operations of the DxV, summarize the tester's specifications, describe the components of the DxV system chassis and demonstrate the ability to perform DxV tester maintenance procedures. This is accomplished by a combination of multimedia presentations, interactive software demonstrations and how-to videos.

Course Outline

- DxV Product Introduction
- DxV Functionality and Components
- Accessing the System
- Running DxV Diagnostics
- DxV Preventative Maintenance (PM)
- Field Replaceable Units (FRUs)

Course Length

- Self-paced – 2-3 hours typical depending on skill level

Prerequisites

- Three months test program experience

Recommended

- Familiarity with Linux Operating Systems
- English - written and spoken

- **Full ATE performance in a desktop PC footprint**
- **Ideal for lab development and high-volume production**
- **No mainframe, separate workstation or support cabinet needed**
- **Completely standalone system**
- **Energy efficient, low power consumption**
- **Ultra compact, zero footprint test floor impact when docked to handlers**

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Course Modules

1 - DxV Product Introduction

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

- Recognize the general features of the DxV
- Identify the supported Instruments
- Identify various production manipulations options

2 - DxV Functionality and Components

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

- Summarize the DxV's Operating Specifications
- Identify and describe the components of the DxV

3 - Accessing the System

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

- Recognize proper ESD and safety procedures
- Demonstrate power up/down procedures
- Describe how to place system in hibernate mode
- Recognize how to log into the system
- Demonstrate starting Unison Operating System

4 - Running DxV Diagnostics

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

- Recognize proper ESD and safety procedures
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- Distinguish between the three types of diagnostics
- Recognize how to connect Keysight 34461A DMM
- Demonstrate how to launch the SMC+ tool
- Demonstrate setting up SMC+ datalogging
- Demonstrate running the SMC+ tool

5 - DxV Preventative Maintenance (PM)

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

- Identify proper ESD and safety procedures
- Recognize PM fundamentals, schedules, common tools
- Describe steps to install/remove a DxV Loadboard
- Describe steps used to install a DxV Instrument
- Identify tasks involved in checking/cleaning DxV
- List steps used to remove/replace DxV fan filter

6 - Field Replaceable Units (FRUs)

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

- Identify proper ESD and safety procedures
- Recognize FRUs and common maintenance tools
- Identify and remove/replace Keysight 34461A DMM
- Identify and remove/replace a failed 48V power supply
- Identify and remove/replace a failing fan control board
- Identify and remove/replace a failing fan (video)
- Identify and remove/ replace a failing VREF board
- Identify and replace individual pogo pins
- Identify and replace pogo pin assembly
- Identify and replace microsprings
- Identify and remove/replace the Embedded PC
- Identify and remove/replace DxV Backplane

At the end of each module the student will be required to pass a test, achieving a score of 75% or more. The student is encouraged to take notes throughout the course, and repeat, or pause the presentation as needed.

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Who Should Attend

- Test System maintenance engineers and technicians
- Test program development and support engineers

Related Classes

- Unison 170X Pre-course #1521

Course Viewing Requirements

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

Course Cost

- Free of charge for all Cohu Semiconductor Tester Customers

Visit our ATE Video Channels

- Click the below to visit our video channels.

YouTube or Click here YOUKU or Click here

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