ASL$_X$ Maintenance

Market Leading Low-Cost Mixed Signal and Analog Test Solutions


Automotive


Mobility


IoT/IoV & Optoelectronics


Computing & Network


Industrial & Medical


Consumer

Course Description

This course provides a comprehensive overview of the ASLx test system hardware. The course focuses on the preventive maintenance procedures and troubleshooting activities needed to ensure maximum system uptime.

Course Outline

- System Hardware
- Online Help Manual
- Hardware Configuration Process
- Calibration, Verification, and Checker Process
- Power Supply Verification Process
- Diagnostic Prerequisites
- Schedule and Preventive Maintenance
- Troubleshooting

Course Structure

- Two days, including classroom and practical exercises

Prerequisites

- Six months maintenance experience servicing electronic test and measurement equipment

Recommended Skills

- Familiarity with Windows operating system
- English - written and spoken

Who Should Attend

- Test system maintenance engineers and technicians

- **Multisite capability resulting in higher throughput**
- **20 instrument slot configuration**
- **Air cooled architecture and instruments**
- **Compact low power technology**

ASL$_X$ Maintenance

Course Modules

1 - System Hardware

This unit informs the students of the system architecture and main components.

- System Architecture
- Testhead Overview

2 - Online Help Manual

The ability to navigate through the various help resources, locate needed information in a timely manner is essential. This unit familiarizes the student with the help system and how to find information quickly.

- How to launch the Help Manual
- Navigation of the Help Manual
  - Use of Indexes
  - Use of Search Features

3 - Hardware Configuration Process

Ensuring the configuration files accurately reflect the test system resources is important for both maintenance operations and running test solutions. The students will learn how to access and update the configuration of a system.

4 - Calibration, Verification, and Checker Process

Regular calibration of test systems is critical to maintain operating performance to the published specifications. Students will learn how to execute calibration programs, and associated verification and checker programs to ensure system performance is maintained.

5 - Power Supply Verification Process

Power supply operation is fundamental to the overall performance of the test system. During this unit, students learn how to check the power supplies are operating correctly.

6 - Diagnostic Prerequisites

Verification, Calibration, and Checker programs often require a defined order of execution to ensure proper performance and test system accuracy. Some calibration, verification, and checker programs require other instrumentation to be present and functional to execute successfully.

In this unit the student will learn the required sequence of program execution, and the hardware that must be present for proper calibration or for accurate failure information to be gathered.

7 - Schedule and Preventive Maintenance

In this unit the students will learn the regular procedures required to maintain the test system to the published specification, and maximize reliability.

8 - Troubleshooting

Identification of system resources causing failures requires skill and experience. In this unit the students are provided with the opportunity to gain experience identifying failure conditions. The students will be able to identify the failing Field Replaceable Unit (FRU).

Related Courses

- visualATE7 Applications

REV20230816

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