



CX Maintenance

X-Series Training Course Syllabus

Course #0505

The CX Maintenance training course provides a comprehensive overview of the hardware available in the CX test system. The course focuses on the preventative maintenance procedures and troubleshooting activities needed to ensure maximum system uptime.

This course applies to X-Series CX test systems. Please reference the overview flyer on this course for information on who should attend, prerequisites, and course structure and benefits.

System Overview

This unit introduces the course, including:

- Course layout and documents
- Certification criteria
- ESD awareness and general safety
- Test system overview

As a result, students will become familiar with CX tester functionality, purpose and capabilities.

System Fundamentals

This unit provides a brief introduction to UNIX, and the X-Windows System, and introduces the enVision essentials, concepts and the skills necessary to operate enVision tools effectively in a maintenance environment.

As a result, students will gain an understanding of:

- Launching and exiting enVision
- Using maintenance related enVision tools
- Basic UNIX commands, file structure and file manipulation
- Working within the Common Desktop Environment (CDE)

Power Distribution and System Interfaces

This unit introduces power distribution, hardware interfaces and various system configurations, including:

- Tester mainframe resource locations

- Tester head architecture
- Instrument location
- Diagnostics

As a result, students will learn how to:

- Recognize different tester configurations and major system subassemblies
- Navigate to, edit, load, and unload maintenance related programs and files
- Use maintenance related enVision tools
- Perform recommended PM on the system

Octal Voltage and Current (OVI) Module

This unit introduces the octal voltage and current instruments used for source and measure functions.

As a result, students will gain an understanding of the general concepts and the basic functions necessary to perform OVI source and measure operations.

DSP Instruments

The DSP Baseboard

This unit introduces the DSP (digital signal processing) baseboard and its functions, including:

- Subsystem interfaces
- Waveform memory
- Relay control

As a result, students will be able to:

- Understand DSP Baseboard use and functionality
- Identify card slot locations for DSP configurations
- Recognize application specific rider boards for the DSP

Dual Arbitrary Waveform Generator

This unit introduces the Dual Arbitrary Waveform Generator (AWG) sourcing instrument.

As a result, students will gain an understanding of:

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- The functions of the AWG
 - The relationship of the AWG to the DSP
 - The impact of the AWG on system configuration
 - Sourcing operations

Dual Waveform Digitizer (DIG)

This unit introduces the Dual Waveform Digitizer (DIG) measure instrument.

As a result, students will gain an understanding of:

- The purpose and functions of the Digitizer
- The relationship of the DIG to the DSP Baseboard
- The impact of the DIG on system configuration
- Measuring operations

Digital Instruments

This unit provides an overview of the digital sub-system including:

- Overview of the digital subsystem
- Location and functions of digital subsystem instruments
- Digital subsystem diagnostics

As a result, students will be able to perform:

- Digital subsystem operations
- Diagnostics on the digital subsystem
- Maintenance on the digital subsystem

RF Instruments

This unit introduces the RF subsystem source and measure option.

As a result, students will:

- Be familiar with source and measure instruments of the RF subsystem
- Be aware of RF generation sources and subsystem interfaces
- Be able to maintain and perform RF source and measure operations
- Be familiar with available RF configuration options
- Perform diagnostics on the RF subsystem
- Remove/replace RF instrument modules

System Diagnostics

This unit provides an overview of system diagnostics, including various load boards, including:

- Subsystem overview

- Cals and checkers
- RF diagnostic kit
- RF load boards

As a result, students will be able to:

- Perform system diagnostics
- Analyze and interpret test results for accuracy and symptom indications

System Maintenance

This unit introduces basic system maintenance and basic troubleshooting tips, including:

- Basic system maintenance
- Preventive maintenance
- System instrument slot locations
- FRU removal/replacement
- Troubleshooting tips

As a result, students will be able to:

- Understand basic maintenance
- Be familiar with specific card cage slot locations
- Perform basic and preventive maintenance
- Be aware of symptom indications as an aide to system troubleshooting

Information and Registration

Please visit www.ltx-credence.com and click on the Training Center located in the Support section to get comprehensive course information, schedules and registration information. If you have any questions, please contact your local LTX-Credence sales representative or training coordinator.

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