



Technical Educational Services

Course Specification

Course Number: N1900

Course Title: CX/UX UNIX Software Overview

Course Duration: 5 Days

Purpose:

The CX/UX UNIX Software Overview course consists of two major sections, a UNIX introduction and the basic CX/UX System Administration functions.

The UNIX introduction section guides the students through the basic concepts and features of the UNIX operating system, including logging into and out of the system, file creation and deletion, file display and editing, file and directory permissions checking and modification. The UNIX **vi** editor is presented in detail during this section of the course.

The System Administration section instills the knowledge required to effectively test and troubleshoot the Night Hawk 3000, 4000 and 5000 series of computer systems. Topics covered in this section of the course include system startup and shutdown, system generation and configuration, user management, file system creation and maintenance, the hard disk format utility and the file archive utilities.

The steps required to install new system software and update an existing system's configuration are presented. Students study the different files and scripts used during the configuration process. Special emphasis is placed on how to correctly set up a new system to make ongoing system operation easier.

Intended Audience:

This course is intended for service engineers or system operators who must configure, support, or maintain a Concurrent system running the CX/UX operating system.

Course Objectives:

Upon successful completion of this course students are able to:

- Log onto and out of a CX/UX UNIX system.
- Move through the directory structure of a UNIX system.
- View text files at the terminal screen.
- Edit text files using the **vi** editor.
- Add and delete user accounts from the system.
- Create a filesystem on a formatted disk drive.

- Mount and unmount disk filesystems.
 - Boot the system into both single-user mode and multi-user mode.
 - Shutdown the system properly
 - Install a new operating system release or new product, including software patches.
 - Configure the system using system utilities
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Prerequisites:

- UNIX System Capability - Students need to understand and be able to use basic UNIX system commands such as those taught in a UNIX introductory course.
 - A working knowledge of the **vi** editor is assumed
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Course Topic Outline:

- I. CX/UX UNIX Introduction (Lecture and Lab) (17.5 Hours)
 - A. Environment Overview.
 - B. Filesystem Overview.
 - C. UNIX User's command set.
 - D. **vi** Editor commands and operation.
 - II. CX/UX System Administration (Lecture and Lab) (17.5 Hours)
 - A. Booting and Shutdown of the system.
 - B. Adding Users to the system.
 - C. Disk and Tape Drive Management.
 - D. Communication Port Management.
 - E. CX/UX Software Installation.
 - F. CX/UX Kernel Configuration.
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Laboratory Exercises:

Exercises are provided for all topics presented and consist of two basic types:

- Review exercises are fill-in type questions that require the student to review the material presented to respond. These questions reinforce the important points presented in each topic.
- Hands-on exercises provide the student with experience in using the commands, utilities, calls, and techniques from the material allowing the student to better understand what he or she has learned.

