Course Description: This course introduces Information Technology professionals to the Solaris 9 Operating Environment (OE). They will learn to use both Solaris commands and graphical user interface (GUI) tools to perform basic user tasks and customize the user environment. Course labs put special emphasis on using the Korn shell and Solaris utilities to automate recurring tasks.

Audience: Application developers, database administrators, system administrators, network managers, webmasters, and any other IT professional who is new to working with the Solaris 9 Operating Environment.

Certification: This is the first of two courses that will prepare students to take the exam, *Sun Certified System Administrator for the Solaris 9 OE, Part I (CX-310-014).*

Prerequisites: None. This course is the first in the Solaris 9 series.

Hardware/Software Requirements:
- One Solaris server per classroom (Intel or SPARC)
- CD-ROM for installation of course files
- One X-terminal capable workstation per student
- Local area network between server and clients
- One set of Solaris 9 operating system media (Intel or SPARC)

Course Objectives:
- Describe the Solaris 9 Operating Environment
- Log in and log out using text or graphic terminals
- Use the Common Desktop Environment
- Describe and navigate the Solaris file system
- Manage files and directories
- Manage access permissions for files and directories
- Create text files using vi editor
- Use Korn shell interactive features
- Use Korn shell to control environment
- Use Korn shell advanced features
- Write Korn shell scripts
- Use Korn flow control constructors
- Compress, archive, restore and uncompress files
- Access network services: telnet, rlogin, ftp, rcp
- Monitor and control user processes
- Create and schedule background jobs

Course Content:

Module 1: Understanding the Solaris 9 OS
- Structure and Architecture of Solaris 9 OS
- Solaris 9 Advanced Features
- Solaris 9 Supported Hardware
- History of UNIX & Solaris

Module 2: Getting Started with Solaris 9
- Solaris users
- Logging in to the system
- Command line processing
- Changing the user password
- Getting on-line help
- Logging out of the system

Module 3: Common Desktop Environment
- Default Desktop Organization
- Workspace Controls
- Desktop Help Facilities
- File Manager Application
- Editing Text with dtedit
- Desktop Utilties
- Customizing the Desktop

Module 4: About the Solaris Files System
- Solaris File System
- Solaris Directories and Files
- Creating and Removing Directories
- Navigating the File System
- Accessing File System Information

Module 5: Managing Solaris Files
- Understanding Solaris Files
- Accessing File Information
- Accessing File Contents
- Managing Files

Module 6: Directory and File Permissions
- Understanding Access Permissions
- Types of Access
- Displaying Permissions
- Managing Access

Module 7: vi Editor – Just the Basics
- Basic vi Editor Concepts
- Basic vi Command Literacy

Module 8: Korn Shell Basics
- Role and Operation of the Korn Shell
- Korn Shell Interactive Features

Module 9: Korn Shell User Environment
- Understanding User Processes
- Working with Shell Variables
- Controlling the Environment
- Korn Shell Startup Files

Module 10: Korn Shell Advanced Features
- File Name Generation Metacharacters
- Quoting Characters
- Command Substitution
- Input / Output Redirection
- Pipes And Filter Commands

Module 11: Korn Shell Scripts – Part I
- General Form of Script
- Sequential Execution
- Passing Arguments
- Debugging Scripts

Module 12: Korn Shell Scripts – Part II
- Selective Execution
- Iterative Execution

Module 13: vi Editor – Power Features
- ex Editor Commands
- Configuring the vi Editor
- Customizing the vi Editor

Module 14: Archive and Restore
- Compressing/Uncompressing Files
- File Backup/Restore with tar
- File Backup/Restore with cpio

Module 15: Network Services
- Solaris Network Concepts
- Remote User Sessions
- Remote File Transfer
- Trusted Hosts

Module 16: Controlling User Processes
- Monitoring Processes
- Background Execution
- Scheduling Processes