



Training America Corporation

Solaris 9 System Administration

Course Outline (5 days)

Course Description: This course introduces Information Technology professionals to the job role of a Solaris 9 System Administrator. They will learn to perform the critical tasks needed to install and maintain a Solaris 9 system within an established network. Course labs provide hands-on practice installing software, working with file systems, supporting users, and maintaining system security.

Audience: System administrators, database administrators, webmasters, and other IT professionals who have day-to-day responsibility for a Solaris 9 system.

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

Prerequisites: Solaris 9 Fundamentals or six months of hands-on experience.

Classroom Hardware/Software Requirements:

- One Solaris workstation per student (Intel or SPARC)
- CD-ROM for installation of course files
- Second hard disk for each workstation (PCI or SCSI)
- Local area network (optional)
- One set Solaris 9 operating system media per student (Intel or SPARC)

Course Objectives:

- Describe the Solaris 9 architecture and configurations
- Create user accounts using commands and GUI tools
- Implement system security procedures
- Describe Solaris device naming conventions
- Partition disk devices and create file systems
- Manage normal and automatic mounting of file systems
- Check and repair corrupted file systems
- Configure and troubleshoot print services
- Display and set boot parameters (EEPROM)
- Describe and control system boot and shutdown
- Install Solaris 9 OE on a standalone system
- Install and maintain software packages and patches
- Backup and recover file systems
- Manage system and applications processes
- Use System Management Console (SMC)

Course Content:

Module 1: Introduction to the Solaris 9 OE

- Role of a System Administration
- Solaris File System
- File Components and Types

Module 2: Creating User Accounts

- Important Files
- Command Line Tools
- GUI Tools
- Initialization Files

Module 3: User Level Security

- Common Informational Commands
- Recording Login & Switching Activity
- Password Aging
- Limiting FTP Access
- Controlling Remote Access

Module 4: Device Configuration

- Basic Architecture of a Disk
- Disk Naming Convention
- Creating Device Files

Module 5: Partitioning Disk

- Why Do We Partition?
- Partitioning From the Command Line
- Saving Partitioning Tables
- Partitioning Using SMC

Module 6: File Systems

- File System Types
- Architecture of UFS File System
- Creating a UFS File System

Module 7: Mounting File Systems

- Directory Structure
- mount Command
- /etc/vfstab
- Mounting Using SMC

Module 8: Maintaining File System

- fsck
- Monitoring Disk Usage
- Purging Files

Module 9: Installing Packages

- What are Packages?
- /var/sadm/install/contents
- pkgadd and pkgrm
- Viewing and Verifying Packages

Module 10: Patch Administration

- What Are Patches?
- Patch Strategies?
- Downloading Patches
- patchadd
- patchrm

Module 11: Booting and Shutting Down

- Run Levels
- 4 Steps Of The Boot Process
- Controlling The Boot Process
- Shutting Down The System

Module 12: Installing Solaris

- Installation Methods – SPARC & Intel
- Upgrades
- Requirements
- Live Lab – Web Install or Standard Installation

Module 13: Process Control

- What Are Process
- Viewing Processes
- Send Processes Signals
- at Command
- crontab

Module 14: Print Services

- Fundamentals of Printing
- Print Processing
- Creating a Printer
- Creating a Printer class
- Deleting a Printer
- Print Commands

Module 15: File System Backups

- Fundamentals Of Backup
- Developing Backup Strategies
- Media Types
- ufsdump
- UFS Snapshot

Module 16: Restoring from Tape

- Restoring A Regular File System
- Restoring Individual Files
- Restoring Critical File Systems