



# [Training America Corporation](#)

## **Solaris 8 System Administration**

### **Course Outline (5 days)**

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**Course Description:** This course introduces Information Technology professionals to the job role of a Solaris 8 System Administrator. They will learn to perform the critical tasks needed to install and maintain a Solaris 8 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 professional who is having day-to-day responsibility for a Solaris 8 system.

**Certification:** This is the second of two courses that will prepare students to take the exam, *Sun Certified System Administrator for the Solaris 8 OE, Part I (CX-310-011)*.

**Prerequisites:** Solaris 8 Fundamentals or six months of hands-on experience.

#### **Hardware/Software Requirements:**

- Solaris system per student (Intel or SPARC)
- CD-ROM for installation of course files
- Second hard disk for workstation (PCI or SCSI)
- Solaris 8 operating system media per student (Intel or SPARC)

#### **Course Objectives:**

- Describe the Solaris 8 architecture and configurations
- Create user accounts using commands
- 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 8 OE on a standalone system
- Install and maintain software packages and patches
- Backup and recover file systems
- Manage system and applications processes

### Course Content:

#### Module 1: Introduction to the Solaris 8 OS

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

#### Module 2: Creating User Accounts

- Crucial Configuration Files
- Creating Users with Commands
- Shell Initialization Files

#### Module 3: User Level Security

- Monitoring System Access
- Monitoring Login Attempts
- Limiting FTP Access
- Controlling Remote Access

#### Module 4: Device Configuration

- Basic Disk Architecture
- Disk Naming Conventions
- Creating Device Files

#### Module 5: Partitioning a Disk

- VTOC
- format Command
- Saving Partitioning Tables

#### Module 6: Creating File Systems

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

#### Module 7: Mounting File Systems

- Directory Structure
- mount Command
- Mounting with /etc/vfstab
- Unmounting File Systems

#### Module 8: Maintaining File System

- fsck Command
- Monitoring Disk Usage
- Controlling Disk Usage

#### Module 9: Package Administration

- What are Packages?
- /var/sadm/install/contents
- Viewing and Verifying Packages
- Installing and Checking Packages

#### Module 10: Patch Administration

- Patch Strategies?
- Downloading Patches
- Patch Commands

#### Module 11: Booting and System Shutdown

- Run Levels
- Four Steps of the Boot Process
- Controlling the Boot Process
- Shutting Down the System

#### Module 12: Installing Solaris 8

- Installation Methods
- System Requirements
- Software Groups
- Live Lab – Standard Installation

#### Module 13: Process Control

- What Is a Process?
- Viewing Processes
- Sending Signals
- at Command
- crontab Command

#### Module 14: Print Services

- Fundamentals of Printing
- Local and Remote Printing
- Creating a Printer
- Printer Administration Commands

#### Module 15: File System Backups

- Fundamentals of Backups
- Developing Backup Strategies
- Media and Devices
- ufsdump Command

#### Module 16: Restoring Data from Tape

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

#### Appendix A: Hands-on Lab Exercises

#### Appendix B: Lab Exercise Solutions

#### Appendix C: Solaris 8 Certification Test

#### Appendix D: Shell Quick Reference