

# Solaris 10 Operating System Essentials (SA-100-S10)

## **Course Content**

### **Module 1 - Introducing the Solaris 10 OS Directory Hierarchy**

- Describe / (root) subdirectories
- Describe file components
- Describe file types
- Use hard links

### **Module 2 - Managing Local Disk Devices**

- Describe the basic architecture of a disk
- Describe the naming conventions for devices
- List devices
- Reconfigure devices
- Perform hard disk partitioning
- Manage disk labels

### **Module 3 - Describing Interface Configurations**

- Control and monitor network interfaces
- Configure Internet Protocol, version 4 (IPv4) interfaces at boot time

### **Module 4 - Managing Solaris OS UFS File Systems**

- Identify disk-based, distributed, and pseudo file systems in the Solaris OS
- Describe Solaris OS ufs file systems
- Create a new ufs file system
- Check the file system using the fsck command
- Resolve file system inconsistencies
- Monitor file system use

### **Module 5 - Introduction to the ZFS File System**

- Describe the Solaris ZFS file system
- Create new ZFS file system properties
- Modify ZFS file system properties
- Destroy ZFS pools and file systems
- Work with ZFS snapshots and clones
- Use ZFS datasets with Solaris Zones

## **Module 6 - Performing Mounts and Unmounts**

- Identify mounting basics
- Perform mounts
- Perform unmounts
- Mount and unmount ZFS file systems
- Access a mounted diskette or CD-ROM
- Restrict access to a mounted diskette or CD-ROM
- Access a diskette or CD-ROM without Volume Management (vold)

## **Module 7 - Performing Solaris 10 OS Package Administration**

- Describe the fundamentals of package administration
- Administer packages using the command-line interface

## **Module 8 - Managing Software Patches on the Solaris 10 OS**

- Describe the fundamentals of patch administration
- Install and remove patches and patch clusters

## **Module 9 - Executing Boot PROM Commands**

- Identify boot programmable read-only memory (PROM) fundamentals
- Use basic boot PROM commands
- Identify the systems boot device
- Create and remove custom device aliases
- View and change nonvolatile random access memory (NVRAM) parameters from shell
- Interrupt an unresponsive system

## **Module 10 - Using the Grand Unified Bootloader**

- Discuss the purpose of the Grand Unified Bootloader (GRUB)
- Describe GRUB terminology and basic functions
- Modify x86 system boot behavior in the Solaris OS
- Use the eeprom command
- Use the kernel command
- Describe and manage GRUB boot archives
- Boot a system in the GRUB-based boot environment
- Interrupt an unresponsive system

## **Module 11 - Performing Legacy Boot and Shutdown Procedures**

- Identify the phases of the boot process
- Identify run level fundamentals
- Control boot processes
- Perform system shutdown procedures

## **Module 12 - Using the Service Management Facility**

- Describe the Service Management Facility (SMF) features
- Compare run levels and SMF milestones
- Use SMF administrative commands
- View and modify SMF parameters

## **Module 13 - Performing User Administration**

- Describe user administration fundamentals
- Manage user accounts
- Manage initialization files

## **Module 14 - Controlling System Processes**

- View system processes
- Kill frozen processes
- Schedule an automatic one-time execution of a command
- Schedule an automatic recurring execution of a command

## **Module 15 - Solaris 10 Operating System Installation Requirements**

- Identify Solaris 10 Operating System installation methods, requirements, and options
- Describe Secure by Default installation concepts