

# System Administration for the Solaris 10 Operating System Part 1 (SA-200-S10, 5 days)



## Course Description

The System Administration for the Solaris 10 Operating System (Solaris 10 OS), Part 1 course <formerly known as Intermediate Solaris> gets you further engaged with the most efficient, secure, and reliable operating system ever built. This course gives you direct experience with the most essential system administration tasks in the Solaris 10 OS. You will be instructed in crucial system management skills including: managing local disk devices, managing UFS file systems, installing and removing Solaris packages and patches, performing system boot procedures. The course also covers user and security administration, managing network printers and system processes, and performing system backups and restores. This course is the second of a two-part series that helps you to prepare for Part I of the Sun Certified System Administration for Solaris OS examination.

LAB INFORMATION: The hands-on labs offered in this course may involve accessing equipment that resides at a location other than where the training is delivered.

## Who Can Benefit

Students who can benefit from this course include system administrators who are preparing to perform essential system administration procedures in the Solaris OS.

## Prerequisites

To succeed fully in this course, students should be able to:

- Perform basic UNIX tasks
- Understand basic UNIX commands
- Use the vi text editor
- Interact with a windowing system

## Skills Gained

Upon completion of this course, students should be able to:

- Manage file systems
- Install software
- Perform system boot procedures
- Perform user and security administration
- Manage network printers and system processes
- Perform system backups and restores

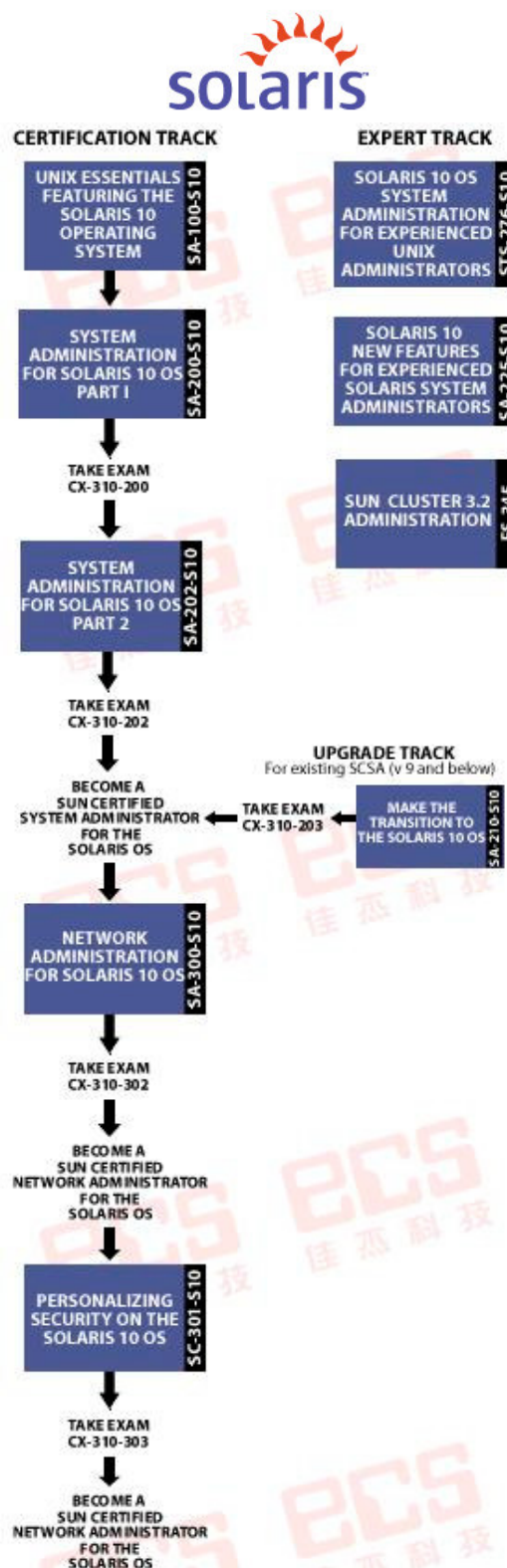
## Related Courses

Before:

- UNIX Essentials Featuring the Solaris 10 Operating System (SA-100-S10)

After:

- System Administration for the Solaris 10 Operating System Part 2 (SA-202-S10)



## REGISTRATION AND INFORMATION

[education@ecs.com.sg](mailto:education@ecs.com.sg)  
[www.ecs.com.sg/training](http://www.ecs.com.sg/training)



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## 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
- Describe the Solaris Management Console
- Partition a disk by using the Solaris Management Console

### Module 3 - Managing Solaris OS File Systems

- Describe Solaris OS 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 4 - Performing Mounts and Unmounts

- Identify mounting basics
- Perform mounts
- Perform unmounts
- 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 5 - Installation Requirements for the Solaris 10 OS

- Identify fundamentals of DVD installation
- Solaris 10 OS installation and upgrade options
- Hardware requirements for Solaris OS installation

### Module 6 - Performing Solaris 10 OS Package Administration

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

### Module 7 - Managing Software Patches on the Solaris 10 OS

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

### Module 8 - Executing Boot PROM Commands

- Identify boot programmable read-only memory (PROM) fundamentals
- Use basic boot PROM commands
- Identify the system's boot device
- Create and remove custom device aliases

- View and change nonvolatile random access memory (NVRAM) parameters from the shell
- Interrupt an unresponsive system

### Module 9 - Using GRUB

- Introduction to GRUB
- Influencing boot behavior with GRUB

### Module 10 - Performing Boot and Shutdown Procedures

- Describe the features of the Service Management Facility
- Identify run level fundamentals
- Compare run levels and SMF milestones
- Identify the phases of the boot process
- Use SMF administrative commands
- Control boot processes
- Perform system shutdown procedures

### Module 11 - Performing User Administration

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

### Module 12 - Introducing System Security

- Monitor system access
- Switch users on a system
- Control system access
- Restrict access to data in files

### Module 13 - Configuring and Using Printer Services

- Identify network printing fundamentals
- Configure printer services
- Administer printer services
- Start and stop the line printer (LP) print service
- Specify a destination printer
- Use the LP print service

### 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 - Performing File System Backups

- Identify the fundamentals of backups
- Back up an unmounted file system

### Module 16 - Performing File System Restores

- Restore ufs file systems
- Explain disaster recovery fundamentals

### Module 17 - Backing Up a Mounted File System With a UFS Snapshot

- Create a UFS snapshot
- Back up the snapshot file

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