

## Course Content of Disk Storage Administration:

### Introduction to Managing Data

- Describe the advantages of virtual disk management
- Describe RAID technology standards and terminology
- Describe the appropriate use of each supported RAID level
- Optimize system configurations for each supported RAID level

### Introduction to the Solaris Volume Manager Software

- Describe the upgrade process for the Solaris 10 OS
- Perform basic Solaris Management Console operations
- Perform basic Enhanced Storage tool operations
- Describe state database features
- Initialize the Solaris Volume Manager software

### Administer the State Database

- Describe the state database consensus algorithm
- Describe state database best practices
- Describe the Solaris Volume Manager software configuration files
- Analyze state database status flags
- Add state database replicas
- Recover from state database failures

### Administer Concatenated and Striped Volumes

- Describe concatenated and striped volume best practices
- Describe logical volume naming conventions
- Use the metainit command to create non-redundant volumes
- Use the md.tab file to create non-redundant volumes
- Use the Enhanced Storage tool to create non-redundant volumes
- Display volume properties and status
- Add file systems to new volumes
- Create soft partitions

## Administer Mirrored Volumes and Hot Spares

- Describe mirrored volume characteristics and best practices
- Describe optimized mirror resynchronization
- Describe mirrored volume read, write, and synchronization policies
- Use the metainit command to create mirrored volumes
- Configure hot spares for mirrored volumes
- Use the Enhanced Storage tool to create mirrored volumes
- Mirror existing file systems and the system boot disk
- Use soft partitions with mirrored volumes

## Administer RAID-5 Volumes

- Describe RAID-5 volume characteristics
- Describe RAID-5 volume best practices
- Create RAID-5 volumes
- Create soft partitions on top of RAID-5 volumes

## Performing Advanced Operations

- Modify the mdmonitord daemon error reporting behavior
- Describe using soft partitions with hardware RAID devices
- Describe how to recover from soft disk errors
- Expand existing file systems
- Use the metassit command to perform top-down volume creation
- Un-mirror the system boot disk
- Replace a failed disk drive