Course Overview

This three-day, hands-on training course equips experienced VMware vSphere® administrators with the knowledge to install, configure, and manage VMware vCenter Site Recovery Manager™ 5.0. This course also equips vSphere administrators with the knowledge to assist in disaster planning and to test disaster recovery plans with SRM.

This course is not required for VMware® certification, but the content of the course is a subset of the knowledge tested in the VMware Certified Design Expert examinations.

Course Objectives

At the end of the course, you should gain an understanding of the functionality in SRM 5.0 and be able to do the following:

- Install SRM 5.0
- Configure placeholder datastores
- Configure inventory mappings in SRM
- Configure datastore mappings
- Replicate virtual machines using physical couriiering
- Configure vSphere replication-based protection groups in SRM
- Create, edit, execute, test, and remove a recovery plan in SRM
- Reprotect virtual machines
- Configure SRM alarms
- Troubleshoot SRM problems
## Course Modules

### 1. Course Introduction
- Introductions and course logistics
- Course goals and objectives

### 2. Introduction to Disaster Recovery
- Introduce disaster recovery terminology and concepts
- Describe disaster recovery and business continuity planning
- Use a runbook to guide disaster recovery

### 3. Overview and Architecture
- Describe the SRM architecture and components
- Discuss the functional differences between SRM and VMware vSphere Distributed Resource Scheduler and VMware vSphere High Availability
- List the new features of SRM 5.0

### 4. VMware vCenter Site Recovery Manager Planning
- List the SRM prerequisites checklist
- Identify and describe SRM site preparation activities, including DNS validation, SRM database requirements, datastore groups requirements, recovery site inventory preparation, and network communication planning

### 5. VMware vSphere Replication
- Describe storage replication using the vRMS appliance
- List storage replication limitations when using the vRMS appliance

### 6. Installation
- Identify and complete SRM installation tasks
- Integration with storage arrays using storage replication adapters
- Configure storage replication
- List and describe SRM security roles

### 7. Establishing the Replication Framework
- Describe and configure SRM placeholder datastores
- Configure datastore mappings for vRMS storage replication
- Describe and configure SRM inventory, network, and datastore mappings

### 8. Protection Groups
- Describe protection groups
- Configure a protection group to protect virtual machines
- Describe placeholder virtual machines
- Create customizations to reconfigure virtual machine network connections after a failover

### 9. Recovery Plans
- Discuss SRM recovery plans
- List SRM recovery plan steps
- Create an SRM recovery plan

### 10. Alarms and Site Status
- Describe SRM alarms
- Describe the available alarm actions
- Configure an alarm

### 11. Failover Testing and Failover
- Describe failover testing, including its effect on storage and network configuration
- Test a recovery plan
- Execute a failover
- Discuss storage resignaturing

### 12. Planned Migration, Reprotect, and Failback
- Discuss planned migration and how it is different from a failover
- Execute a planned migration
- Discuss when and how to reprotect a virtual machine
- Describe SRM failback

### 13. VMware vCenter Site Recovery Manager Logs, Simple Scripts, and Troubleshooting
- Describe SRM logs
- Resolve problems with the SRM database
- Resolve site connection problems
- Resolve LUN, datastore, and protection group problems
- Use scripts with SRM