# **Course Description**



# Course: SLE322v15 Using SLES for SAP Applications to Provide High Availability for S/4HANA and Netweaver



# **Training Level:**

□ Intermediate

# **Delivery Method:**

- Instructor Led
- eLearning

### **Duration:**

- 3 days for ILT
- Approximately 12 hours eLearning video content

## **Course Overview**

This course is designed to enable you to deploy the SAP Enqueue Replication Server with High Availability using SLES for SAP Applications. The course uses SUSE best practices leading to a deployment that complies with the SAP certification NW-HA-CLU 7.40 for ENSA1 and S/4-HA-CLU 1.0 for ENSA2. First the Enqueue Server is introduced along with an architectural overview. Next the environment required for the deployment is explored including the storage requirements for deploying the enqueue server with high availability. The preparation is followed by tuning the systems for the SAP workload, creating and configuring the required cluster resources and integrating the SAP environment with the HA environment using the sap\_suse\_cluster\_connector. Cluster tests are then planned and executed, the cluster monitored and best practice administration tips provided.

# **Key Objectives**

Attendees will be taught the following concepts and skills:

- Overview of the SAP Enqueue Server
- Preparation tasks required for a successful deployment
- ☐ Configuration of the required storage for the Enqueue Server in an HA environment
- ☐ Tuning of the cluster nodes to host the Enqueue and Enqueue Replication Server
- ☐ Integration of SAP into the cluster framework using the sap\_suse\_cluster\_connector
- Deployment of the cluster and configure the required cluster resources
- ☐ How to design and perform cluster tests
- Monitoring of the cluster and perform day 2 management tasks specific to a cluster hosting the Enqueue Server

# **Audience**

Administrators tasked with administering systems running S/4HANA or SAP applications hosted on the NetWeaver ABAP platform who require a high availability solution for the Enqueue Server hosted on a SLES for SAP





Applications HA cluster. The configuration of a cluster hosting ENSA1 will be compliant with the SAP NW-HA-CLU 7.40 certification and a cluster hosting ENSA2 will be compliant with the SAP S/4-HA-CLU 1.0 certification.

# **Prerequisites**

Attendees should have knowledge of SLES equivalent to the SCA in SUSE Linux Enterprise Sever level along with an in-depth understanding of the SUSE Linux Enterprise High Availability Extension or general High Availability concepts. This course does not require any specific SAP product knowledge.







### **Course Outline**

☐ Section I: Course Introduction ☐ Section 2: Overview of the Enqueue Server ☐ What is the Enqueue Server? ☐ The Standalone Enqueue Server ☐ The Enqueue Replication Server □ Architectural Overview of ENSA1 ☐ Architectural Overview of ENSA2 ☐ Section 3: Preparing to Deploy the Enqueue Server with High **Availability** ☐ Overview of the Required Software Access the SAP Media Sets Overview of the Installation Process ☐ SAP NetWeaver Directory Structure on Linux ☐ Configure Storage for the Enqueue Server in an HA **Environment** ☐ Configure Name Resolution for the ASCS and ERS Instances ☐ Create the Linux Users for the ASCS and ERS Instances ☐ Install the Enqueue and Enqueue Replication Servers ☐ Section 4: Tuning SLES for SAP Applications to Host a SAP NetWeaver Workload ☐ Use saptune to Tune a Host for the SAP NetWeaver Workload ☐ Section 5: Deploy and Configure SLES for SAP Applications to Host the Enqueue Server with High Availability □ Deploy the SLE HA Cluster ☐ Adapt the SAP Profiles to Match the SAP Certification ☐ Integrate the Cluster Framework with sap-suse-clusterconnector V3.x ☐ Adapt the SAP Profiles to Match the SAP Certification ☐ Create and Configure the Cluster Resources for ENSA2 ☐ Overview of a Multi-SID Central Services Cluster Configuration ☐ Section 6: Designing and Performing Cluster Tests

### **SUSE Training**

Information about SUSE Training can be found at:

https://training.suse.com



Contact <u>suse-training@suse.com</u> with any questions.



☐ Understand the Tasks and Tools Used for Testing

Design Cluster Tests

☐ Plan and Perform Cluster Tests

■ Monitor the HA Components

☐ Section 7: Monitoring and Administering the HA Solution

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ш	Monitor the SAP Enqueue Servers
	Recovery Procedures after a Fail Over
	Applying a Rolling SAP Kernel Switch
	Manage and Deploy System Updates
	Log Files
	Administering the Cluster

