

# Red Hat High Availability Clustering for SAP Solutions

**Course Duration: 40 Hours**

**Course Code : RH450**

## 1. Course Overview

The **Red Hat High Availability Clustering for SAP Solutions (RH450)** course equips system administrators and SAP basis consultants with the skills to **implement, configure, and manage high availability (HA) clusters specifically for SAP environments** on Red Hat Enterprise Linux (RHEL).

Participants learn to ensure **maximum uptime and business continuity** for SAP applications by deploying **Red Hat High Availability Add-On, Pacemaker, Coro sync, and resource agents** tailored to SAP workloads. The course includes hands-on labs focusing on **SAP HANA and SAP NetWeaver** clustering, failover strategies, and HA monitoring.

## 2. What You'll Learn

- Design and implement **high availability clusters for SAP systems**.
- Install and configure **Red Hat High Availability Add-On components**.
- Manage **Pacemaker and Coro sync** for cluster communication and resource control.
- Configure **SAP-specific cluster resources** such as HANA and NetWeaver.
- Implement **fencing, failover, and recovery strategies** for SAP workloads.
- Monitor **cluster health and troubleshoot HA issues** in SAP environments.

- Apply **best practices for SAP system uptime, reliability, and business continuity.**

### 3. Target Audience

This course is intended for:

- Linux system administrators supporting **SAP environments.**
- SAP Basis administrators responsible for **high availability and disaster recovery.**
- DevOps and IT operations engineers managing **enterprise SAP workloads.**
- Infrastructure architects designing **fault-tolerant SAP solutions.**

### 4. Pre-Requisites

Participants should have:

- Red Hat Certified System Administrator (**RHCSA**) or equivalent Linux experience.
- Familiarity with **SAP HANA or SAP NetWeaver** environments is recommended.
- Understanding of **Linux system administration, networking, and storage** concepts.
- Knowledge of **Red Hat High Availability clustering** is helpful but not mandatory.

### 5. Course Content

#### Module 1: Introduction to High Availability for SAP

- HA concepts specific to SAP workloads

- Overview of Red Hat HA Add-On and components

## **Module 2: Installing and Configuring HA for SAP**

- Installing cluster nodes
- Configuring Red Hat HA Add-On for SAP

## **Module 3: Cluster Communication with Coro sync**

- Messaging, quorum, and synchronization
- Coro sync configuration and testing

## **Module 4: Pacemaker Administration for SAP**

- Pacemaker architecture and SAP-specific configurations
- Resource management and failover policies

## **Module 5: SAP HANA Cluster Resources**

- Configuring HANA system replication
- Managing SAP HANA cluster resources and dependencies

## **Module 6: SAP NetWeaver Cluster Resources**

- Defining NetWeaver instance resources
- Failover and recovery strategies

## **Module 7: Fencing and Recovery Mechanisms**

- Configuring STONITH devices
- Automated node recovery and failover

## **Module 8: Monitoring and Troubleshooting**

- Monitoring cluster health for SAP systems
- Diagnosing and resolving HA issues

## **Module 9: High Availability Best Practices**

- Ensuring business continuity for SAP environments

- Performance considerations and optimization

## **Module 10: Hands-On Labs**

- Deploying and testing SAP HANA and NetWeaver clusters
- Failover simulation, fencing, and resource management

