

Course code	Course Contents	Exam No.	Certification Title	Duration
3115	SuSE Linux Enterprise 11 SP2 Fundamentals	50-720	SuSE Certified Linux Administrator 11	40 Hrs
3116	SuSE Linux Enterprise 11 SP2 Administration			

## Course 3115 SUSE Linux Enterprise 11 SP2 Fundamentals

### Course Outline

#### SECTION 1: First Steps with Linux

- Objective 1: Overview of the Linux Desktop
- Objective 2: Use the GNOME Desktop Environment
- Objective 3: Access the Command Line Interface from the Desktop

#### SECTION 2: Locate and Use Help Resources

- Objective 1: Access and Use man Pages
- Objective 2: Use info Pages
- Objective 3: Access release Notes and White Papers
- Objective 4: Use GUI-Based Help
- Objective 5: Find Help on the Web

#### SECTION 3: Manage Linux File System

- Objective 1: Understand the File System Hierarchy Standard (FHS)
- Objective 2: Identify File Types in the Linux System
- Objective 3: Change Directories and List Directory Contents
- Objective 4: Create and View Files
- Objective 5: Work with Files and Directories
- Objective 6: Find Files on Linux
- Objective 7: Search File Content

#### SECTION 4: Work with the Linux Shell and CLI

- Objective 1: Get to Know the Command Shells
- Objective 2: Understand the Multiuser Environment
- Objective 3: Execute Commands at the Command Line
- Objective 4: Get to Know Common Command Line Tasks
- Objective 5: Understand Command Syntax and Special Characters
- Objective 6: Use Piping and Redirection

#### SECTION 5: Administer Linux with YaST

- Objective 1: Get to Know YaST
- Objective 2: Network-config with YaST
- Objective 3: Add a printer
- Objective 4: Software Management with YaST
- Objective 5: Understand the Role of SuSEconfig

## **SECTION 6: Manage Users, Groups, and Permissions**

- Objective 1: Manage User and Group Accounts with YaST
- Objective 2: Describe Basic Linux User Security Features
- Objective 3: Manage User and Group Accounts from the CLI
- Objective 4: Manage File Permissions and Ownership
- Objective 5: Ensure File System Security

## **SECTION 7: Use Linux Text Editors**

- Objective 1: Get to Know Linux Text Editors
- Objective 2: Use the Editor vi to Edit Files

## **SECTION 8: Manage Software with RPM**

- Objective 1: Manage RPM Software Packages
- Objective 2: Manage RPM Software Sources/Catalogs with Zypp
- Objective 3: Update and Patch SLE

# **Course 3116 SUSE Linux Enterprise 11 SP2 Administration**

## **Course Outline**

### **SECTION 1: Install SLE**

- Objective 1: Perform a SLE 11 Installation
- Objective 2: Configure the SLE 11 Installation
- Objective 3: Troubleshoot the Installation Process

### **SECTION 2: Manage System Initialization**

- Objective 1: Describe the Linux Load Procedure
- Objective 2: GRUB (Grand Unified Bootloader)
- Objective 3: Manage Runlevels

### **SECTION 3: Administer Linux Processes and Services**

- Objective 1: View and Manage Processes (kill, jobs, etc.)
- Objective 2: Manage Daemon Processes (/etc/init.d/script start, etc.)

### **SECTION 4: Administer Storage**

- Objective 1: Select a Linux File System
- Objective 2: Configure Linux File System Partitions
- Objective 3: Manage Linux File Systems
- Objective 4: Configure LVM and Software RAID
- Objective 5: Set Up and Configure Disk Quotas

### **SECTION 5: Configure the Network**

- Objective 1: Understand Linux Network Terms
- Objective 2: Manage the Network Configuration Info from YaST
- Objective 3: Set Up Network Interfaces with the ip Tool
- Objective 4: Set Up Routing with the ip Tool
- Objective 5: Test the Network Connection with CLI Tools
- Objective 6: Configure Host Name and Name Resolution

## **SECTION 6: Manage Hardware**

- Objective 1: Describe the Difference Between Devices and Interfaces
- Objective 2: Describe How Device Drivers Work
- Objective 3: Describe How Device Drivers are Loaded
- Objective 4: Manage Kernel Modules Manually
- Objective 5: Describe the sysfs File System
- Objective 6: Describe How udev Works
- Objective 7: Obtain Hardware Configuration Info from YaST

## **SECTION 7: Configure Remote Access**

- Objective 1: Provide Secure Remote Access with OpenSSH
- Objective 2: Enable Remote Administration with YaST and VNC
- Objective 3: tsclient/rdesktop, nomad

## **SECTION 8: Monitor SLE 11**

- Objective 1: Monitor a SLES 11 System
- Objective 2: Use System Logging Services
- Objective 3: Monitor Login Activity

## **SECTION 9: Automate Tasks**

- Objective 1: Schedule Jobs with cron
- Objective 2: Schedule Jobs with at

## **SECTION 10: Manage Backup and Recovery**

- **Objective 1: Develop a Backup Strategy**
- **Objective 2: Backup Files with YaST**
- Objective 3: Create Backups with tar
- Objective 4: Work with Magnetic Tapes
- Objective 5: Copy Data with dd
- Objective 6: Mirror Directories with rsync

## **SECTION 11: Administer User Access and Security**

- Objective 1: Configure User Authentication with PAM
- Objective 2: Manage and Secure the Linux User Environment
- Objective 3: ACLs
- Objective 4: Improve Application Security Using AppArmor
- Objective 5: Create and Manage Profiles Using AppArmor
- Objective 6: Control AppArmor
- Objective 7: Monitor AppArmor
- Objective 8: Use SuSEfirewall2

## **COURSE 3101 and 3102 LPIC-1 Addendum**

- Objective 1: Use Debian Package Management
- Objective 2: yum Package Management
- Objective 3: SQL Data Management
- Objective 4: Install and Configure X11
- Objective 5: Message Transfer Agent (MTA) Basics
- Objective 6: Fundamentals of TCP/IP (dig)