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## 3037-SUSE Linux Administration

**Course Length:** 5 Days

**Certification:** Novell Certified Linux Professional (Novell CLP)

### COURSE DESCRIPTION

**Linux Administration** is designed to help students prepare for the Novell Certified Linux Professional (Novell CLP) Practical Test. The Novell CLP is an entry-level certification for people interested in becoming Linux Administrators.

**Course Objective:** In this course, students will learn the basic SUSE LINUX Enterprise Server 9 (SLES 9) administration skills.

**Target Students:** This course was designed for the current Novell CNE<sup>sm</sup>, but Linux professionals and administrators with experience in other operating systems can also use this course to help prepare for the Novell CLP Practicum.

**Prerequisites:** Students should have experience with the following Novell courses:

- Linux Fundamentals and or Course 3036

**Delivery Method:** Instructor-led, group-paced, classroom-delivery learning model with structured, hands-on activities.

### COURSE CONTENT

#### Day 1

##### **SECTION 1 Introduction to Managing the SUSE LINUX Enterprise Server**

- Objective 1 Describe SLES 9
- Objective 2 Update the SLES 9 Installation
- Objective 3 Monitor Your SLES 9 System

##### **SECTION 2 Manage User Access and Security**

- Objective 1 Describe Basic Linux User Security Features
- Objective 2 Manage Linux Users and Groups
- Objective 3 Manage and Secure the Linux User Environment
- Objective 4 Secure Files and Directories with Permissions
- Objective 5 Configure User Authentication with PAM
- Objective 6 Implement and Monitor Enterprise Security Policies

#### Day 2

##### **SECTION 3 Manage the Linux File System**

- Objective 1 Select a Linux File System
- Objective 2 Configure Linux File System Partitions
- Objective 3 Configure a File System with Logical Volume Management (LVM)
- Objective 4 Configure and Manage a Linux File System

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- Objective 5 Set Up and Configure Disk Quotas
  - Objective 6 Back Up and Restore the File System

**SECTION 4 Manage Software for SUSE LINUX Enterprise Server**

- Objective 1 Manage RPM Software Packages
- Objective 2 Verify and Update Software Library Access
- Objective 3 Manage Software Updates with YaST Online Update Server (YOU)

**SECTION 5 Manage System Initialization**

- Objective 1 Describe the Linux Load Procedure
- Objective 2 Manage Runlevels
- Objective 3 Manage the Kernel
- Objective 4 Manage the GRUB Boot Loader
- Objective 5 Modify System Settings

**Day 3**

**SECTION 6 Manage Linux Processes and Services**

- Objective 1 Manage Processes
- Objective 2 Describe Startup Shell Scripts and Services
- Objective 3 Schedule Jobs
- Objective 4 Use System Logging Services

**SECTION 7 Connect the SUSE LINUX Enterprise Server to the Network**

- Objective 1 Configure Your Network Connection
- Objective 2 Configure and Manage Routes
- Objective 3 Test the Network Interface

**Day 4**

**SECTION 8 Enable Infrastructure Services**

- Objective 1 Configure and Manage Network Printing Services
- Objective 2 Configure Network File Systems
- Objective 3 Manage Resources on the Network

**SECTION 9 Enable Internet Services**

- Objective 1 Configure SUSE LINUX Enterprise Server Time
- Objective 2 Enable a Web Server (Apache)
- Objective 3 Enable the Extended Internet Daemon (xinetd)
- Objective 4 Enable an FTP Server

**Day 5**

**SECTION 10 Manage Remote Access**

- Objective 1 Provide Secure Remote Access with OpenSSH
- Objective 2 Enable Remote Administration with YaST
- Objective 3 Configure a Network Installation

**SECTION 11 LiveFire Exercise**

**APPENDIX A SUSE LINUX Enterprise Server 9 Installation**

**APPENDIX B Network Components and Architecture**

**APPENDIX C Novell CLP and LPI Requirements**