

# Linux SUSE



## Corporate Trainer's Profile

Corporate Trainers are having the experience of 4 to 12 years in development , working with TOP CMM level 5 companies (Project Leader /Project Manager ) qualified from NIT/IIT/IIM and work exp in USA and UK.



## Capability Maturity Model level Project Standard\*\*\* :-

The Capability Maturity Model (CMM) is a method for evaluating the maturity of organizations on a scale of 1 to 5.

Get the Oppertunites to work on Client Projects Of US/UK, which follow the all standard of CMM level 5 Company.

## Projects



## **SUSE Linux Enterprise Server 10 Fundamentals (N3071) A 3-day course**

Open Public Course Closed In-House Course

### **Synopsis**

This course is the first in the CLP curriculum developed for SUSE Enterprise Server 10. This course guides students who have no experience with Linux through the main concepts of open source software and Linux using the SUSE Linux Enterprise Server 10. Students will learn the concepts of Open Source and Linux as well as the fundamental knowledge necessary to administer SUSE Linux Enterprise Server 10. These fundamental tasks are prerequisites to SUSE Linux Enterprise Server 10 Administration (Course 3072). These tasks are also essential and prerequisite to learning the skills of an entry level Linux administrator or help desk technician in an enterprise environment.

This course, along with the skills taught in the SUSE Linux Enterprise Server 10 Administration (Course 3072) and SUSE Linux Enterprise Server 10 Advanced Administration (Course 3073), prepare you to take the Novell Certified Linux Professional 10 (Novell CLP 10) certification Practicum (050-697).

### **Course Objectives**

Based on SUSE Linux Enterprise Server 10, you will understand key Open Source concepts and will be able to carry out fundamental administration tasks such as:  
Installing SUSE Linux Enterprise Server 10 and knowing where to find help when having problems  
Understanding the basic concepts of bash and the file system  
Managing users and permissions

### **Suitable for**

This course is ideal for those who have little or no experience with Linux and who are seeking a fundamental understanding of the SUSE Linux Enterprise Server 10 operating system. It is also ideal for those who want to begin preparing for the Novell Certified Linux Professional 10 Practicum Exam.

### **Prerequisites**

This course is designed for beginners with the Linux operating system. Attendees are required to have only basic computer skills on any operating system. Knowledge of a desktop operating system is sufficient.

### **Contents:**

SECTION 1 - Understand the Linux Story

The History of Linux

oThe Historical Development of UNIX

oThe Development of Linux

oThe Software Differences Between SUSE Linux and SUSE Linux Enterprise Server

Understand the Multiuser Environment

Perform a Simple Installation of SUSE Linux Enterprise Server 10

oPre-Installation Requirements and Guidelines

oInstallation Options

- oBasic Installation
- oConfiguration
- SECTION 2 - Use the Linux Desktop
- Overview of the Linux Desktop
- Use the GNOME Desktop Environment
- oLog In
- oLog Out and Shutdown
- oIdentify GNOME Desktop Components
- oManage Icons in GNOME
- oUse the GNOME File Manager (Nautilus)
- Access the Command Line Interface From the Desktop
- SECTION 3 - Administer Linux with YaST
- Get to Know YaST
- Understand the Role of SuSEconfig
- Manage the Network Configuration Information from YaST
- Install Software Packages
- Manage Installation Sources
- SECTION 4 - Locate and Use Help Resources
- Access and Use man Pages
- Use info Pages
- Access Release Notes and White Papers
- oRelease Notes
- oManuals
- oHelp for Installed Packages
- oHowtos
- Use GUI-Based Help
- Find Help on the Web
- SECTION 5 - Manage Directories and Files
- Understand the File System Hierarchy Standard (FHS)
- oThe Hierarchical Structure of the File System
- oFHS (Filesystem Hierarchy Standard)
- oRoot Directory (/)
- oEssential Binaries for Use by All Users (/bin)
- oBoot Directory (/boot)
- oOther Partitions (/data)
- oDevice Files (/dev)
- oConfiguration Files (/etc)
- oUser Directories (/home)
- oLibraries (/lib)
- oMountpoints for Removable Media (/media/\*)
- oApplication Directory (/opt)
- oHome Directory of the Administrator (/root)
- oSystem Binaries (/sbin)
- oData Directories for Services (/srv)
- oSubdomain for AppAmor (/subdomain)
- oTemporary Area (/tmp)
- oThe Hierarchy Below (/usr)

- oVariable Files (/var)
- oWindows Partitions (/windows)
- oProcess Files (/proc)
- oSystem Information Directory (/sys)
- oMountpoint for Temporarily Mounted File Systems (/mnt)
- oDirectories for Mounting Other File Systems

## Identify File Types in the Linux System

- oNormal Files
- oDirectories
- oDevice Files
- oLinks
- oSockets
- oFIFOs

## Change Directories and List Directory Contents

- ocd
- ols
- opwd

## oCeate and View Files

- oCreate a New File with touch
- oView a File with cat
- oView a File with less
- oView a File with head and tail

## Work with Files and Directories

- oCopy and Move Files and Directories
- oCreate Directories
- oDelete Files and Directories
- oLink Files

## Find Files on Linux

- oGraphical Search Tools
- ofind
- olocate
- owhereis
- owhich
- otype

## Search File Content

- oHow to Use the Command grep
- oHow to Use Regular Expressions SECTION 6 - Work With the Linux Shell and Command Line

## Get to Know the Command Shells

- oTypes of Shells
- obash Configuration Files
- oCompletion of Commands and File Names

## Execute Commands at the Command Line

- oHistory Function
- oSwitch to User root
- oGet to Know Common Command Line Tasks
- oVariables

- oAliases
- Understand Command Syntax and Special Characters
- oSelect your Character Encoding
- oName Expansion Using Search Patterns
- oPrevent the Shell from Interpreting Special Characters
- oUse Piping and Redirection
- SECTION 7 - Use Linux Text Editors
- Get to Know Linux Text Editors
- Use the Editor vi to Edit Files
- oStart vi
- oUse the Editor vi
- oLearn the Working Modes
- SECTION 8 - Manage User, Groups, and Permissions
- Manage User and Group Accounts With YaST
- oBasics About Users and Groups
- oUser and Group Administration With YaST
- Describe Basic Linux User Security Features
- oFile System Security Components
- oUsers and Groups
- Manage User and Group Accounts From the Command Line
- oManage User Accounts From the Command Line
- oManage Groups From the Command Line
- oCreate Text Login Messages
- Manage File Permissions and Ownership
- oUnderstand the File Permissions
- oChange the File Permissions With chmod
- oChange the File Ownership With chown and chgrp
- oModify Default Access Permissions
- oConfigure Special File Permissions
- Ensure File System Security
- oThe Basic Rule for User Write Access
- oThe Basic Rule for User Read Access
- oHow Special File Permissions Affect the Security of the System
- APPENDIX A - Use the KDE Desktop Environment
- Install the KDE Desktop Environment
- oInstall KDE during the Installation of SUSE Linux Enterprise Server
- oInstall KDE after the Installation of SUSE Linux Enterprise Server
- Log In
- Log Out and Shutdown
- Identify KDE Desktop Components
- oThe Desktop
- oThe KDE Control Panel (Kicker)
- oThe KDE Menu
- oVirtual Desktops
- Manage Icons in the KDE Environment
- oDesktop
- oKicker

