

Course Outline



Tel: +44 (0) 118 979 4000 Fax: +44 (0) 118 979 4000

Email: training@ptr.co.uk Web: www.ptr.co.uk

Linux Advanced System and Network Administration: LPI Certification

Course Description:

In Linux System Administration: LPI Certification, you examined the basic commands required to manage files, directories, users, and devices. In this course, you will implement and manage web, file, and security features. You will also troubleshoot the system and network problems. You will find that this course benefits you in two ways. First, it will teach you the skills you need to provide advanced features and services to users of your Linux network. It will also prepare you for the LPI Certification exam (Exam 201 and Exam 202).

This course is intended for system and network administrators who are familiar with working at the Linux command line and performing basic system administration tasks such as maintaining user accounts and groups, and backing up and restoring data.

Pre-requisites:

The user should have performed network administration tasks such as installation and configuration of network services, troubleshooting simple networking problems, and connecting workstations to a network. The user should have taken Linux System Administration: LPI Certification or possess equivalent knowledge.

Course Content:

- **Implementing DHCP Services**
 - Examine Networking Basics
 - Install a DHCP Server
 - Configure a DHCP Server
- **Implementing DNS Services**
 - Install a DNS Server
 - Configure a DNS Server
 - Secure DNS Server

21a Peach Street Wokingham Berkshire RG40 1XJ

Tel 0118 979 4000 **Fax** 0118 979 4035 **Email** training@ptr.co.uk **www** www.ptr.co.uk

Registered Office: Grenville Court Britwell Road Burnham Bucks SL1 8DF Company Registered No: 2442290 – VAT registration No:532 1929 56

Course Outline



Tel: +44 (0) 118 979 4000

Fax: +44 (0) 118 979 4000

Email: training@ptr.co.uk

Web: www.ptr.co.uk

- **Implementing Internet and Web Hosting Services**
 - Install a Web Server
 - Configure a Web Server
 - Maintain a Web Server
 - Install a Proxy Server
 - Configure a Proxy Server
 - Install an FTP Server
 - Secure an FTP Server
- **Managing File Services**
 - Implement Samba Services
 - Implement NFS services
 - Access Files Remotely Using SSH
 - Access Files Remotely Using VPN
 - Synchronize Files
- **Managing a Mail Server**
 - Configure a Mail Server
 - Install Majordomo
 - Create Mailing Lists
 - Implement Procmail
- **Sharing Information**
 - Configure an NIS Server
 - Configure NIS Clients
 - Implement LDAP Services
 - Manage a News Server
- **Configuring Devices**
 - Add New Hardware
 - Manage Disk Space
 - Configure RAID
 - Configure Network Devices to Connect to Networks
- **Automating Tasks Using Scripts**
 - Automate Search Using Script Files
 - Automate Calculation
 - Write a Perl Script

21a Peach Street Wokingham Berkshire RG40 1XJ

Tel 0118 979 4000 **Fax** 0118 979 4035 **Email** training@ptr.co.uk **www.ptr.co.uk**

Registered Office: Grenville Court Britwell Road Burnham Bucks SL1 8DF Company Registered No: 2442290 – VAT registration No:532 1929 56

Course Outline



Tel: +44 (0) 118 979 4000

Fax: +44 (0) 118 979 4000

Email: training@ptr.co.uk

Web: www.ptr.co.uk

- **Securing Networks**
 - Secure Data
 - Configure TCP Wrappers
 - Configure Firewall on a Router
 - Change Runlevel
 - Manage Passwords
 - Implement Kerberos
 - Detect Intrusion

- **Maintaining Servers**
 - Manage Log Files
 - Maintain Filesystems
 - Configure Automount Filesystems
 - Compile a Kernel
 - Configure the Kernel Modules
 - Patch a Kernel
 - Package Software

- **Troubleshooting Linux Network Issues**
 - Create Recovery Disks
 - Troubleshoot Boot Loader
 - Troubleshoot Devices
 - Troubleshoot the System Environment
 - Troubleshoot Network Issues

Course Duration:

5 Days