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Linux System Administration I - Implementation Information

<b>Length:</b>	40.0 Hours
<b>Ref:</b>	LX03G □
<b>Delivery method:</b>	ClassroomInstructor Led Online
<b>Price:</b>	EUR

Overview

The purpose of this course is to provide experienced Linux users additional skills that may help them become a capable system administrator.

Public

The intended audience for this course is experienced Linux users who want to become administrators of one or more Linux servers.

Prerequisites

You should have:

- Attended IBM Linux course *Linux Basics and Installation (LX020)*
- Practical experience in running Linux as a user

Objective

- Install Linux from a network install server, setup network install servers, and perform automated installs
- Manage system and services startup and shutdown
- Select and use system administration tools when appropriate
- Configure and manage printers
- Use packaging tools to create, install, and de-install packages
- Configure and manage the X Window System and VNC
- Manage logging
- Manage kernel services
- Manage devices
- Manage hard disks, partitions, Redundant Array of Independent Disks (RAID), and Logical Volume Management (LVM)
- Create and manage file systems and file system quota

- Perform memory management
- Use scheduling tools
- Create and restore backups
- Perform user administration
- Apply user-level security
- Troubleshoot Linux problems

## Topics

### Day 1

- Introduction
- Unit 1: Advanced Linux installation
  - Exercise 1: Advanced Linux installation
- Unit 2: Startup and shutdown
  - Exercise 2: Startup and shutdown
- Unit 3: System administration tools
  - Exercise 3: System administration tools
- Unit 4: Package management
  - Exercise 4: Packaging tools

### Day 2

- Unit 5: X Window System and VNC
  - Exercise 5: X Window System and VNC
- Unit 6: Logging
  - Exercise 6: Logging
- Unit 7: Kernel services and device management
  - Exercise 7: Device management

### Day 3

- Unit 8: Disk management, RAID, and LVM
  - Exercise 8: Disk management, LVM, and RAID
- Unit 9: File systems and file system quota
  - Exercise 9: File systems
- Unit 10: Memory management
  - Exercise 10: Memory management

### Day 4

- Unit 11: Scheduling
  - Exercise 11: Scheduling

- Unit 12: Backup and restore
  - Exercise 12: Backup and restore
- Unit 13: User administration
  - Exercise 13: User administration
- Unit 14: User-level security
  - Exercise 14: User-level security

## **Day 5**

- Unit 16: Problem determination
  - Exercise 16: Problem determination
- Optional units and exercises

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