

Linux Courses Exam Objectives Overlap

<b>Linux Essentials Exam</b>	<b>LPIC1 Exam</b>
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<b>Topic 1: The Linux Community and a Career in</b>	
1.1 Linux Evolution and Popular Operating Systems	<i>Introduction to Linux I - Chapter 1</i>
1.2 Major Open Source Applications	102.4 Use Debian package management 102.5 Use RPM and YUM package management
1.3 Understanding Open Source Software and Licensing	<i>Introduction to Linux I - Chapter 1</i>
1.4 ICT Skills and Working in Linux	

<b>Topic 2: Finding Your Way on a Linux System</b>	
2.1 Command Line Basics	103.1 Work on the command line
2.2 Using the Command Line to Get Help	<i>Introduction to Linux I - Chapter 2</i>
2.3 Using Directories and Listing Files	103.3 Perform basic file management
2.4 Creating, Moving and Deleting Files	103.3 Perform basic file management

<b>Topic 3: The Power of the Command Line</b>	
3.1 Archiving Files on the Command Line	103.3 Perform basic file management
3.2 Searching and Extracting Data from Files	103.2 Process test streams using filters 103.3 Perform basic file management 103.4 Use streams, pipes and redirects 103.7 Search text files using regular expressions
3.3 Turning Commands into a Script	105.2 Customize or write simple scripts

<b>Topic 4: The Linux Operating System</b>	
4.1 Choosing an Operating System	<i>Introduction to Linux I - Chapter 1</i>
4.2 Understanding Computer Hardware	101.1: System Architecture 102.1 Design hard disk layout
4.3 Where Data is Stored	101.1: System Architecture 102.1 Design hard disk layout 103.5 Create, monitor and kill processes
4.4 Your Computer on the Network	109.1 Fundamentals of internet protocols 109.2 Basic network configuration 109.3 Basic network troubleshooting 109.4 Configure client side DNS

<b>Topic 5: Security and File Permissions</b>	
5.1 Basic Security and Identifying User Types	107.1 Manage user and group accounts and related system files 110.1 Perform security administration tasks
5.2 Creating Users and Groups	107.1 Manage user and group accounts and related system files
5.3 Managing File Permissions and Ownership	104.5 Manage file permissions and ownership
5.4 Special Directories and Files	104.5 Manage file permissions and ownership 104.6 Create and change hard and symbolic links

## Linux Essentials Exam Objectives

Topics highlighted in blue are also testable by the LPIC1 exams.

### Objectives: Linux Essentials

#### Topic 1: The Linux Community and a Career in Open Source

1.1 Linux Evolution and Popular Operating Systems

1.2 Major Open Source Applications

1.3 Understanding Open Source Software and Licensing

1.4 ICT Skills and Working in Linux

#### Topic 2: Finding Your Way on a Linux System

2.1 Command Line Basics

2.2 Using the Command Line to Get Help

2.3 Using Directories and Listing Files

2.4 Creating, Moving and Deleting Files

#### Topic 3: The Power of the Command Line

3.1 Archiving Files on the Command Line

3.2 Searching and Extracting Data from Files

3.3 Turning Commands into a Script

#### Topic 4: The Linux Operating System

4.1 Choosing an Operating System

4.2 Understanding Computer Hardware

4.3 Where Data is Stored

4.4 Your Computer on the Network

#### Topic 5: Security and File Permissions

5.1 Basic Security and Identifying User Types

5.2 Creating Users and Groups

5.3 Managing File Permissions and Ownership

5.4 Special Directories and Files

## LPIC-1 Exam Objectives

Topics highlighted in green are also testable by the Linux Essentials exam.

### Objectives: Exam 101

#### Topic 101: System Architecture

101.1 Determine and configure hardware settings

101.2 Boot the system

101.3 Change runlevels / boot targets and shutdown or reboot system

#### Topic 102: Linux Installation and Package Management

102.1 Design hard disk layout

102.2 Install a boot manager

102.3 Manage shared libraries

102.4 Use Debian package management

102.5 Use RPM and YUM package management

#### Topic 103: GNU and Unix Commands

103.1 Work on the command line

103.2 Process text streams using filters

103.3 Perform basic file management

103.4 Use streams, pipes and redirects

103.5 Create, monitor and kill processes

103.6 Modify process execution priorities

103.7 Search text files using regular expressions

103.8 Perform basic file editing operations using vi

#### Topic 104: Devices, Linux Filesystems, Filesystem Hierarchy Standard

104.1 Create partitions and filesystems

104.2 Maintain the integrity of filesystems

104.3 Control mounting and unmounting of filesystems

104.4 Manage disk quotas

104.5 Manage file permissions and ownership

104.6 Create and change hard and symbolic links

104.7 Find system files and place files in the correct location

## LPIC-1 Exam Objectives

Topics highlighted in green are also testable by the Linux Essentials exam.

### Objectives: Exam 102

#### Topic 105: Shells, Scripting and Data Management

105.1 Customize and use the shell environment

105.2 Customize or write simple scripts

105.3 SQL data management

#### Topic 106: User Interfaces and Desktops

106.1 Install and configure X11

106.2 Setup a display manager

106.3 Accessibility

#### Topic 107: Administrative Tasks

107.1 Manage user and group accounts and related system files

107.2 Automate system administration tasks by scheduling jobs

107.3 Localisation and internationalisation

#### Topic 108: Essential System Services

108.1 Maintain system time

108.2 System logging

108.3 Mail Transfer Agent (MTA) basics

108.4 Manage printers and printing

#### Topic 109: Networking Fundamentals

109.1 Fundamentals of internet protocols

109.2 Basic network configuration

109.3 Basic network troubleshooting

109.4 Configure client side DNS

#### Topic 110: Security

110.1 Perform security administration tasks

110.2 Setup host security

110.3 Securing data with encryption