

 uCertify

Course Outline

**Introduction to Linux Course,
Part 1**



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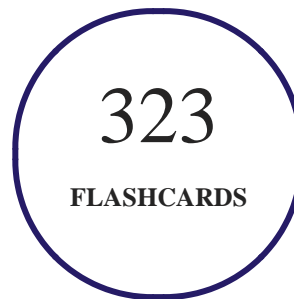
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1. Course Objective

Gain hands-on expertise in Linux Fundamentals by uCertify Pearson: Introduction To Linux Course, Part 1 course. LPI Linux Fundamental course is designed to certify the competency of IT professionals to understand, install, configure, and manage Linux system administration tasks and fundamentals of Linux.

2. Flashcards

Flashcards are effective memory-aiding tools that help you learn complex topics easily. The flashcard will help you in memorizing definitions, terminologies, key concepts, and more. There is no limit to the number of times learners can attempt these. Flashcards help master the key concepts.



3. Glossary of terms

uCertify provides detailed explanations of concepts relevant to the course through Glossary. It contains a list of frequently used terminologies along with its detailed explanation. Glossary defines the key terms.



4. Expert Instructor-Led Training

uCertify uses the content from the finest publishers and only the IT industry's finest instructors. They have a minimum of 15 years real-world experience and are subject matter experts in their fields. Unlike a live class, you can study at your own pace. This creates a personal learning experience and gives you all the benefit of hands-on training with the flexibility of doing it around your schedule 24/7.

5. ADA Compliant & JAWS Compatible Platform

uCertify course and labs are ADA (Americans with Disability Act) compliant. It is now more accessible to students with features such as:

- Change the font, size, and color of the content of the course
- Text-to-speech, reads the text into spoken words
- Interactive videos, how-tos videos come with transcripts and voice-over
- Interactive transcripts, each word is clickable. Students can clip a specific part of the video by clicking on a word or a portion of the text.

JAWS (Job Access with Speech) is a computer screen reader program for Microsoft Windows that reads the screen either with a text-to-speech output or by a Refreshable Braille display. Student can easily navigate uCertify course using JAWS shortcut keys.

6. State of the Art Educator Tools

uCertify knows the importance of instructors and provide tools to help them do their job effectively. Instructors are able to clone and customize course. Do ability grouping. Create sections. Design grade scale and grade formula. Create and schedule assignments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

7. Award Winning Learning Platform (LMS)

uCertify has developed an award winning, highly interactive yet simple to use platform. The SIIA CODiE Awards is the only peer-reviewed program to showcase business and education technology's finest products and services. Since 1986, thousands of products, services and solutions have been recognized for achieving excellence. uCertify has won CODiE awards consecutively for last 5 years:

- **2014**
 1. Best Postsecondary Learning Solution

- **2015**
 1. Best Education Solution
 2. Best Virtual Learning Solution
 3. Best Student Assessment Solution
 4. Best Postsecondary Learning Solution
 5. Best Career and Workforce Readiness Solution
 6. Best Instructional Solution in Other Curriculum Areas
 7. Best Corporate Learning/Workforce Development Solution

- **2016**
 1. Best Virtual Learning Solution
 2. Best Education Cloud-based Solution
 3. Best College and Career Readiness Solution

4. Best Corporate / Workforce Learning Solution
5. Best Postsecondary Learning Content Solution
6. Best Postsecondary LMS or Learning Platform
7. Best Learning Relationship Management Solution

- **2017**

1. Best Overall Education Solution
2. Best Student Assessment Solution
3. Best Corporate/Workforce Learning Solution
4. Best Higher Education LMS or Learning Platform

- **2018**

1. Best Higher Education LMS or Learning Platform
2. Best Instructional Solution in Other Curriculum Areas
3. Best Learning Relationship Management Solution

8. Chapter & Lessons

uCertify brings these textbooks to life. It is full of interactive activities that keeps the learner engaged. uCertify brings all available learning resources for a topic in one place so that the learner can efficiently learn without going to multiple places. Challenge questions are also embedded in the chapters so learners can attempt those while they are learning about that particular topic. This helps them grasp the concepts better because they can go over it again right away which improves learning.

Learners can do Flashcards, Exercises, Quizzes and Labs related to each chapter. At the end of every lesson, uCertify courses guide the learners on the path they should follow.

Syllabus

Chapter 1: Welcome To Linux

- The History of UNIX and GNU-Linux

- Overview of Linux
- Choosing an Operating System
- Chapter Summary
- Exercises

Chapter 2: Installation Overview

- Conventions Used in This Book
- LPI and CompTIA Certification Icons
- More Information
- Planning the Installation
- The Installation Process
- Downloading an Installation Image File and Writing to/Burning the Installation Medium
- Gathering Information About the System
- Chapter Summary
- Exercises
- Advanced Exercises

Chapter 3: Step-By-Step Installation

- The New Anaconda Installer

- Running a Fedora Live Session
- Installing Fedora/RHEL
- Installation Tasks
- Chapter Summary
- Exercises
- Advanced Exercises

Chapter 4: Introduction To Fedora And Red Hat Enterprise Linux

- Curbing Your Power (Superuser/root Privileges)
- Logging In on the System
- The GNOME 3 Standard and Classic Desktops
- Working with the Desktop
- Using the Nautilus File Manager
- The Settings Window
- Getting Help
- Updating, Installing, and Removing Software Packages
- Working from the Command Line
- More About Logging In and Passwords

- Chapter Summary
- Exercises
- Advanced Exercises

Chapter 5: The Shell

- Special Characters
- Ordinary Files and Directory Files
- The Command Line
- Standard Input and Standard Output
- Running a Command in the Background
- Filename Generation/Pathname Expansion
- Builtins
- Chapter Summary
- Exercises
- Advanced Exercises

Chapter 6: The Linux Filesystem

- The Hierarchical Filesystem
- Ordinary Files And Directory Files

- Pathnames
- Working With Directories
- Access Permissions
- ACLs: Access Control Lists
- Links
- Chapter Summary
- Exercises
- Advanced Exercises

Chapter 7: The Linux Utilities

- Basic Utilities
- Working With Files
- Compressing And Archiving Files
- Displaying User And System Information
- Miscellaneous Utilities
- Editing Files
- Chapter Summary
- Exercises

- Advanced Exercises

Chapter 8: Networking And The Internet

- Introduction to Networking
- Types of Networks and How They Work
- Communicate over a Network
- Network Utilities
- Distributed Computing
- WWW: World Wide Web
- Chapter Summary
- Exercises
- Advanced Exercises

Chapter 9: The Bourne Again Shell (bash)

- Background
- Startup Files
- Commands That Are Symbols
- Redirecting Standard Error
- Writing and Executing a Shell Script

- Control Operators: Separate and Group Commands
- Job Control
- Manipulating the Directory Stack
- Parameters and Variables
- Variable Attributes
- Keyword Variables
- Special Characters
- Locale
- Time
- Processes
- History
- Aliases
- Functions
- Controlling bash: Features and Options
- Processing the Command Line
- Chapter Summary
- Exercises
- Advanced Exercises

Chapter 10: Appendix A: Regular Expressions

- Characters
- Delimiters
- Simple Strings
- Special Characters
- Rules
- Bracketing Expressions
- The Replacement String
- Extended Regular Expressions
- Appendix Summary

Chapter 11: Appendix B: Help

- Solving a Problem
- Finding Linux-Related Information
- Specifying a Terminal

Chapter 12: Jumpstarts

- Installing and Removing Software Packages Using yum

- Configuring a Printer Using system-config-printer
- Using ssh and scp to Connect to an OpenSSH Server
- Downloading Files Using ftp
- Building a Firewall Using firewall-config
- Getting Apache Up and Running

Have Any Query? We Are Happy To Help!

GET IN TOUCH:

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■ www.uCertify.com