Content Outline:

Linux History and Operation

The Evolution of Linux

The GNU Movement and the GPL Linux Operations as a Server The Architecture and Structure of Linux

Installing and Configuring Linux

Introduction to Installation and Media Types Performing a Custom Linux Server Installation Run Levels and the Startup/Shutdown Sequence Logging In and Out of a Linux System

Shells, Commands, and Navigation

Introduction to Linux Shells, Commands, and Navigation Navigating the Linux Filesystem
Using Shell Variables in Bash
The Bash Shell
Commands for Obtaining System Information
Examining File Contents
Customizing your Shell Environment
Manipulating Commands and Their Input/Output
Getting Help

Common Text Editors

Using the Emacs Editor
Using the vi Editor
Using the Pico Editor
Manipulating Text Files From the Command Line
Using Awk
Using Sed

Configuring and Using X Windows

Introduction to X Windows Configuring XFree86

Linux Printing

The Line Printer Daemon (lpd)
Printing
Administering a Linux Printer Queue

Users and Groups

Introduction to Users and Groups Essentials of Effective User, Group, and Password Management

The Ext2 Filesystem

Introduction to the Second Extended (Ext2) Filesystem
Partitioning and Formatting
Mounting and Configuring Filesystems
Administering Ext2 Filesystems
Understanding Permissions

The Linux Kernel

Introduction to the Linux Kernel Using Kernel Modules Compiling the Linux Kernel Installing the Linux Kernel

Shell Scripting

Introduction to Shell Scripting Variables Basic Control Structures Loops Command-line Arguments

Linux Software Management

The Software Life Cycle

Querying Installation Linux System Management Choosing a Server The /proc Filesystem The Swap Partition The sudo Command