



| <b>Red Hat Certified Engineer (RHCE) Ent Linux 6</b> |   |  |
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| <b>(RH124,RH134 &amp; RH254)</b>                     |   |  |
|  | <b><u>RH124 – Red Hat System Administration I</u></b>   |  |
|  | Unit 1: Get Started with the GNOME Graphical Desktop  |  |
|  | Objective: Get started with GNOME and edit text files with gedit  |  |
|  | Unit 2: Manage Files Graphically with Nautilus  |  |
|  | Objective: Manage files graphically and access remote systems with Nautilus                               |  |
|  | Unit 3: Get Help in a Graphical Environment   |  |
|  | Objective: Access documentation, both locally and online  |  |
|  | Unit 4: Configure Local Services  |  |
|  | Objective: Configure the date and time and configure a printer  |  |
|  | Unit 5: Manage Physical Storage I   |  |
|  | Objective: Understand basic disk concepts and manage system disks   |  |
|  | Unit 6: Manage Logical Volumes  |  |
|  | Objective: Understand logical volume concepts and manage logical volumes                                  |  |
|  | Unit 7: Monitor System Resources  |  |
|  | Objective: Manage CPU, memory, and disk utilization   |  |
|  | Unit 8: Manage System Software  |  |
|  | Objective: Manage system software locally and using Red Hat Network (RHN)                                 |  |
|  | Unit 9: Get Started with Bash   |  |
|  | Objective: Understand basic shell concepts, execute simple commands, and use basic job control techniques |  |
|  | Unit 10: Get Help in a Textual Environment  |  |
|  | Objective: Use man and info pages and find documentation in /usr/share/doc                                |  |
|  | Unit 11: Establish Network Connectivity   |  |
|  | Objective: Understand basic network concepts; configure, manage, and test network settings                |  |
|  | Unit 12: Administer Users and Groups  |  |
|  | Objective: Manage users and groups  |  |
|  | Unit 13: Manage Files from the Command Line   |  |



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|  | Objective: Understand Linux filesystem hierarchy and pathnames; manage files from the command line             |  |
|  | Unit 14: Secure Linux File Access  |  |
|  | Objective: Understand Linux file access mechanisms; manage file access from the GUI and the command line       |  |
|  | Unit 15: Administer Remote Systems   |  |
|  | Objective: Share and connect to a desktop; use SSH and rsync   |  |
|  | Unit 16: Configure General Services  |  |
|  | Objective: Manage services; configure SSH and remote desktops  |  |
|  | Unit 17: Manage Physical Storage II  |  |
|  | Objective: Manage filesystem attributes and swap space   |  |
|  | Unit 18: Install Linux Graphically   |  |
|  | Objective: Install Red Hat Enterprise Linux and configure the system with first boot                           |  |
|  | Unit 19: Manage Virtual Machines   |  |
|  | Objective: Understand basic virtualization concepts; install and manage virtual machines                       |  |
|  | Unit 20: Control the Boot Process  |  |
|  | Objective: Understand runlevels and manage GRUB  |  |
|  | Unit 21: Deploy File Sharing Services  |  |
|  | Objective: Deploy an FTP server and a web server   |  |
|  | Unit 22: Secure Network Services   |  |
|  | Objective: Manage a firewall; understand SELinux concepts and manage SELinux                                   |  |
|  | Unit 23: Comprehensive Review  |  |
|  | Objective: Get a hands-on review of the concepts covered in this course  |  |
|  | <b><u>RH134 – Red Hat System Administration II</u></b>   |  |
|  | Unit 1: Automated Installations of Red Hat Enterprise Linux  |  |
|  | Objectives: Create and manage kickstart configuration files; perform installations using kickstart             |  |
|  | Unit 2: Accessing the Command Line   |  |
|  | Objectives: Access the command line locally and remotely; gain administrative privileges from the command line |  |
|  | Unit 3: Intermediate Command Line Tools  |  |
|  | Objectives: Use hardlinks, archives and compression, and vim   |  |



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|  | Unit 4: Regular Expressions, Pipelines, and I/O Redirection   |  |
|  | Objectives: Use regular expressions to search patterns in files and out put; redirect and pipe output                     |  |
|  | Unit 5: Network Configuration and Troubleshooting   |  |
|  | Objectives: Configure network settings; troubleshoot network issues   |  |
|  | Unit 6: Managing Simple Partitions and Filesystems  |  |
|  | Objectives: Create and format simple partitions, swap partitions, and encrypted partitions                                |  |
|  | Unit 7: Managing Flexible Storage with the Logical Volume Manager (LVM)   |  |
|  | Objectives: Implement LVM and LVM snapshots   |  |
|  | Unit 8: Access Network File Sharing Services; NFS and CIFS  |  |
|  | Objectives: Implement NFS, CIFS, and auto fs  |  |
|  | Unit 9: Managing User Accounts  |  |
|  | Objectives: Manage user accounts including password aging   |  |
|  | Unit 10: Network User Accounts with LDAP  |  |
|  | Objectives: Connect to a central LDAP directory service   |  |
|  | Unit 11: Controlling Access to Files  |  |
|  | Objectives: Manage group memberships, file permissions, and access control lists (ACL)                                    |  |
|  | Unit 12: Managing SELinux   |  |
|  | Objectives: Activate and deactivate SELinux; set file contexts; manage SELinux booleans; analyze SELinux logs             |  |
|  | Unit 13: Installing and Managing Software   |  |
|  | Objectives: Manage software and query information with yum; configure client-side yum repository files                    |  |
|  | Unit 14: Managing Installed Services  |  |
|  | Objectives: Managing services; verify connectivity to a service   |  |
|  | Unit 15: Analyzing and Storing Logs   |  |
|  | Objectives: Managing logs with rsyslog and logrotate  |  |
|  | Unit 16: Managing Processes   |  |
|  | Objectives: Identify and terminate processes, change the priority of a process, and use cron and at to schedule processes |  |
|  | Unit 17: Tuning and Maintaining the Kernel  |  |



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|  | Objectives: List, load, and remove modules; use kernel arguments |  |
|  | Unit 18: System Recovery Techniques                              |  |
|  | <b><u>RH254 – Red Hat System Administration III</u></b>          |  |
|  | Unit 1 : Virtualization Tools & Review, Getting started.         |  |
|  | Unit 2: Enhance User Security                                    |  |
|  | Unit 3: Bash Scripting and Tools                                 |  |
|  | Unit 4: File Security with GnuPG                                 |  |
|  | Unit 5: Package Management                                       |  |
|  | Unit 6: Network Monitoring                                       |  |
|  | Unit 7: Advanced Network Configuration                           |  |
|  | Unit 8: Secure Network Traffic                                   |  |
|  | Unit 9: NTP Server Configuration                                 |  |
|  | Unit 10: System Monitoring and Logs                              |  |
|  | Unit 11: Centralized and Secure Storage                          |  |
|  | Unit 12: SSL Encapsulated Web Services                           |  |
|  | Unit 13: Web Server Additional Configuration                     |  |
|  | Unit 14: Basic SMTP Configuration                                |  |
|  | Unit 15: Caching-Only DNS Server                                 |  |
|  | Unit 16: File Sharing with NFS                                   |  |
|  | Unit 17: File Sharing with CIFS                                  |  |
|  | Unit 18: File Sharing with FTP                                   |  |
|  | Unit 19: Troubleshooting the Boot Process                        |  |

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