

Course Title: OCS-linux-175: Linux Administration I

Length of Course: 5 days

Overview:

This five-day course provides the student with the knowledge to use Linux as a system administrator. This course is also designed to prepare students for the RHCSA™ certification exam (in conjunction with "OCS-linux-075: Linux Essentials").

This course builds on skills learned in "OCS-linux-075: Linux Essentials", providing students with the knowledge to perform system administration tasks on a Linux system.

In addition to helping students prepare for the RHCSA™ (Red Hat® Certified System Administrator) exam, students gain experience that will assist them in handling real world Linux administration tasks.

Students are taught by an instructor who is both RHCSA™ and RHCE™ certified. All students are provided the following:

- Printed and digital copies of our excellent courseware in which exam objective topics are clearly marked.
- Access to courseware updates for up to a year after class.
- On line access to OCS's exam prep guide.
- A classroom-based Operating System on a bootable USB.
- A copy of "Hands-on Guide to the Red Hat® Exams: RHCSA™ and RHCE™ Cert Guide and Lab Manual".

Prerequisites:

Prior to attending this class, students should have the following experience:

- Completion of OCS-linux-075: Linux Essentials or
- Equivalent experience

Course Cost:

\$1,900/person

Course Topics:

Unit 01: Installation <ul style="list-style-type: none"> ○ Review interactive installation ○ Configure installation servers ○ Kickstart installations 	Unit 08: Administering the Filesystem <ul style="list-style-type: none"> ○ Fixing filesystems ○ Displaying filesystem attributes ○ Modifying filesystem attributes 	Unit 14: Basic Service Configuration <ul style="list-style-type: none"> ○ FTP ○ HTTP ○ SSH & VNC
Unit 02: Software Administration <ul style="list-style-type: none"> ○ Connection to a repository ○ Installing software ○ Removing software ○ Creating a repository ○ rpm & yum 	Unit 09: Logical Volumes (LVM) <ul style="list-style-type: none"> ○ LVM concepts ○ Volume groups ○ Physical and logical volumes ○ Extending logical volumes ○ Snapshots 	Unit 15: Securing Services <ul style="list-style-type: none"> ○ Implement firewalls ○ Configuring SELinux
Unit 03: Account Administration <ul style="list-style-type: none"> ○ Account database files ○ Adding, Modifying & removing user & group accounts ○ Accessing network accounts 	Unit 10: Fundamentals of TCP/IP <ul style="list-style-type: none"> ○ Protocols ○ IP addressing ○ Subnetting ○ Routing ○ DNS & DHCP 	Unit 16: Log File Administration <ul style="list-style-type: none"> ○ System logging configuration ○ Log file rotation
Unit 04: The Boot Process <ul style="list-style-type: none"> ○ The Boot Sequence ○ Run levels ○ Controlling services 	Unit 11: TCP/IP Configuration <ul style="list-style-type: none"> ○ Configuring network settings ○ Configure DNS clients ○ Configure DHCP clients ○ NSS (Name Service Switch) 	Unit 17: The proc Filesystem <ul style="list-style-type: none"> ○ Viewing system information ○ Configuring kernel parameters
Unit 05: Advanced Permissions <ul style="list-style-type: none"> ○ Setuid ○ Setgid ○ Sticky bit ○ Access control lists 	Unit 12: Printer Management <ul style="list-style-type: none"> ○ Configure local and remote CUPS printers ○ Manage print queues 	Unit 18: Loadable Kernel Modules <ul style="list-style-type: none"> ○ Displaying, loading & unloading modules ○ Module dependencies
Unit 06: Administering Partitions <ul style="list-style-type: none"> ○ Partition structure & fdisk ○ mkfs & mke2fs ○ Filesystems Labels 	Unit 13: Virtual Machines <ul style="list-style-type: none"> ○ Conditional statements ○ Input/output ○ Signals ○ Debugging 	Unit 19: Troubleshooting <ul style="list-style-type: none"> ○ Boot issues ○ Fixing user accounts ○ Networking errors ○ Filesystem recovery
Unit 07: Mounting Filesystems <ul style="list-style-type: none"> ○ Manually mounting & unmounting filesystems ○ Mounting automatically at boot ○ Creating swap filesystems ○ Sharing & mounting network filesystems 		