

Course Name	LINUX SYSTEM ADMINISTRATION – LEVEL I (SC)										
Course Overview	<p><i>Linux System Administration – Level I</i> is intended for participants without previous Unix or Linux administration experience. The course focuses on providing participants with Linux administration "survival skills" by focusing on core administration tasks. This course shall provide a foundation for participants wishing to become full-time Linux system administrators by introducing key command line concepts and other enterprise-level tools. These concepts are further developed in the follow-on course, Linux System Administration – Level II.</p>										
Course Objective	<p>Upon completion this course, the participants should be able to:</p> <ul style="list-style-type: none"> • Perform basic command line operation • Perform installation and configuration of the software components and services • Configure network connections and firewall access • Manage physical storage, files and processes • Access Linux file systems • Perform review on system log files and journal 										
Target Audience	<p>This training is suitable for IT professionals and students alike, across a broad range of disciplines who need to perform essential Linux administration tasks including installation, establishing network connectivity, managing physical storage, and basic security administration.</p>										
Course Outline	<table border="1" data-bbox="591 1419 1523 1898"> <thead> <tr> <th data-bbox="591 1419 802 1478">DAY / DATE</th> <th data-bbox="802 1419 1149 1478">TIME</th> <th data-bbox="1149 1419 1523 1478">TOPIC</th> </tr> </thead> <tbody> <tr> <td data-bbox="591 1478 802 1898" rowspan="2">Day 1</td> <td data-bbox="802 1478 1149 1747">9 am – 12.30 noon</td> <td data-bbox="1149 1478 1523 1747"> Access the command line <ul style="list-style-type: none"> • Log in to a Linux system and run simple commands using the shell. </td> </tr> <tr> <td data-bbox="802 1747 1149 1898"> 10 am – 10.15 am - Tea break </td> <td data-bbox="1149 1747 1523 1898"> Manage files from the command line </td> </tr> </tbody> </table>			DAY / DATE	TIME	TOPIC	Day 1	9 am – 12.30 noon	Access the command line <ul style="list-style-type: none"> • Log in to a Linux system and run simple commands using the shell. 	10 am – 10.15 am - Tea break	Manage files from the command line
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		<p><i>12.30 noon – 2.00 pm</i></p> <p>- <i>Lunch</i></p> <p>2.00 pm – 5.30 pm</p> <p><i>4.00 pm – 4.15 pm</i></p> <p>- <i>Tea Break</i></p>	<ul style="list-style-type: none"> • Copy, move, create, delete, and organize files from the bash shell prompt. <p>Using online help</p> <ul style="list-style-type: none"> • Resolve problems by using online help systems and Red Hat support utilities. <p>Create, view, and edit text files</p> <ul style="list-style-type: none"> • Create, view, and edit text files from command output or in an editor.
	Day 2	<p>9 am – 12.30 noon</p> <p><i>10 am – 10.15 am</i></p> <p>- <i>Tea break</i></p> <p><i>12.30 noon – 2.00 pm</i></p> <p>- <i>Lunch</i></p>	<p>Manage local Linux users and groups</p> <ul style="list-style-type: none"> • Manage local Linux users and groups, and administer local password policies. <p>Control access to files with Linux file system permissions</p> <ul style="list-style-type: none"> • Set Linux file system permissions on files and interpret the security effects of different permission settings.

			<p>2.00 pm – 5.30 pm</p> <p><i>4.00 pm – 4.15 pm</i></p> <p>- <i>Tea break</i></p>	<p>Monitor and manage Linux processes</p> <ul style="list-style-type: none"> Obtain information about the system, and control processes running on it. <p>Control services and daemons</p> <ul style="list-style-type: none"> Control and monitor network services and system daemons using system
	Day 3	<p>9 am – 12.30 noon</p> <p><i>10 am – 10.15 am</i></p> <p>- <i>Tea break</i></p> <p><i>12.30 noon – 2.00 pm</i></p> <p>- <i>Lunch</i></p> <p>2.00 pm – 5.30 pm</p> <p><i>4.00 pm – 4.15 pm</i></p> <p>- <i>Tea Break</i></p>	<p>Configure and secure OpenSSH service</p> <ul style="list-style-type: none"> Access and provide access to the command line on remote systems securely using OpenSSH <p>Analyze and store logs</p> <ul style="list-style-type: none"> Locate and accurately interpret relevant system log files for troubleshooting purposes. <p>Manage Linux networking</p> <ul style="list-style-type: none"> Configure basic IPv4 networking on Linux systems. 	

	<p>Day4</p> <p>9 am – 12.30 noon</p> <p><i>10 am – 10.15 am</i></p> <p>- <i>Tea break</i></p> <p><i>12.30 noon – 2.00 pm</i></p> <p>- <i>Lunch</i></p> <p>2.00 pm – 5.30 pm</p> <p><i>4.00 pm – 4.15 pm</i></p> <p>- <i>Tea Break</i></p>	<p>Archive and copy files between systems</p> <ul style="list-style-type: none"> Archive files and copy them from one system to another. <p>Install and update software packages</p> <ul style="list-style-type: none"> Download, install, update, and manage software packages from Red Hat and yum package repositories. <p>Access Linux file systems</p> <ul style="list-style-type: none"> Access and inspect existing file systems on a Red Hat Enterprise Linux system.
	<p>Day5</p> <p>9 am – 12.30 noon</p> <p><i>10 am – 10.15 am</i></p> <p>- <i>Tea break</i></p> <p><i>12.30 noon – 2.00 pm</i></p> <p>- <i>Lunch</i></p> <p>2.00 pm – 5.30 pm</p> <p><i>4.00 pm – 4.15 pm</i></p> <p>- <i>Tea Break</i></p>	<p>Use virtualized systems</p> <ul style="list-style-type: none"> Create and use Red Hat Enterprise Linux virtual machines with KVM and libvirt. <p>Comprehensive review</p> <ul style="list-style-type: none"> Practice and demonstrate the knowledge and skills learned in this course.
<p><i>*Note: Topics proposed are subjects to changes</i></p>		
Duration	5 Days	