



Institute of Accountancy Arusha

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IAA/BP/4

RE: INVITATION TO THE TRAINING ON LINUX SYSTEMS ADMINISTRATION PROGRAMME

The Institute of Accountancy Arusha is pleased to announce “**Linux Systems Administration Programme**”. This hands-on Linux administration course teaches participants how to install, configure and maintain an Enterprise Linux system in a networked environment. Participants will learn to perform basic administrative tasks such as adding and managing users, creating and maintaining file systems, developing and implementing a security policy, as well as performing software installation and package management. Additionally, participants will perform Linux network-related tasks, to include installing and supporting SSH, NFS, Samba, and the Apache Web server. Comprehensive hands on exercises are integrated throughout to reinforce learning and develop real competency.

1.0 Course Objectives

Upon completion of the Red Hat RHCSA Course, you will demonstrate competence and learn to master:

a) Understand and Use Essential Tools

Access a shell prompt and issue commands with correct syntax

Use input-output redirection (>, >>, |, 2>, etc.)

Use grep and regular expressions to analyze text

Access remote systems using ssh

Log in and switch users in multiuser targets

Archive, compress, unpack, and uncompress files

Create and edit text files

Create, delete, copy, and move files and directories

Create hard and soft links

List, set, and change standard ugo/rwx permissions

Locate, read, and use system documentation

b) Operate Running Systems

Boot, reboot, and shut down a system normally

Boot systems into different targets manually

Interrupt the boot process in order to gain access to a system
Identify CPU/memory intensive processes, adjust process priority
Locate and interpret system log files and journals
Access a virtual machine's console
Start and stop virtual machines
Start, stop, and check the status of network services
Securely transfer files between systems

c) Configure Local Storage

List, create, delete partitions on MBR and GPT disks
Create and remove physical volumes, assign physical volumes
Configure systems to mount file systems at boot by UUID
Add new partitions and logical volumes, and swap to a system

d) Create and Configure File Systems

Create, mount, unmount, and use vfat, ext4, and xfs file systems
Mount and unmount CIFS and NFS network file systems
Extend existing logical volumes
Create and configure set-GID directories for collaboration
Create and manage Access Control Lists (ACLs)
Diagnose and correct file permission problems

e) Deploy, Configure, and Maintain Systems

Configure networking and hostname resolution
Schedule tasks using at and cron
Start and stop services and configure services
Configure systems to boot into a specific target automatically
Install Red Hat Enterprise Linux automatically using Kickstart
Configure a physical machine to host virtual guests
Install Red Hat Enterprise Linux systems as virtual guests
Configure systems to launch virtual machines at boot
Configure network services to start automatically at boot
Configure a system to use time services
Install and update software packages from Red Hat Network

Update the kernel package appropriately to ensure a bootable system
Modify the system bootloader

f) Manage Users and Groups

Create, delete, and modify local user accounts
Change passwords and adjust password aging for local user accounts
Create, delete, and modify local groups and group memberships
Configure a system to use an existing authentication service

g) Manage Security

Configure firewall settings using firewall-config, firewall-cmd, or iptables
Configure key-based authentication for SSH
Set enforcing and permissive modes for SELinux
List and identify SELinux file and process context
Restore default file contexts
Use boolean settings to modify system SELinux settings
Diagnose and address routine SELinux policy violations

2.0 Target Participants

System Administrators, IT Technician, systems analysts, systems engineers, Network Engineers, ICT Managers, ICT Help Desk Support and all others with ICT backgrounds

3.0 Fees

The fee for the course is **TShs 1,500,000/=** (One million five hundred thousand only) to cover for course materials and tea/coffee and lunch only. Payment may be in cash, cheque or bankers draft addressed to the Rector, Institute of Accountancy Arusha or directly to our Bank Account **No. 014103007130 NBC**, Arusha Branch. Participants are encouraged to come with their laptops. The Institute may make accommodation arrangements on your behalf at your own costs provided you inform us well in advance.

4.0 Dates & Venue

From Monday, 19th – 23rd Friday, November, 2018 in at the **Institute of Accountancy Arusha**.

5.0 Contact

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Yours Faithfully,

THE INSTITUTE OF ACCOUNTANCY ARUSHA

Sifael N. Sabaya

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