Course Contents of RED HAT LINUX (RCHSA):

◆ Get started with the GNOME graphical desktop
=> Get started with GNOME and edit text files with gedit.

◆ Manage files graphically with Nautilus
=> Manage files graphically and access remote systems with Nautilus.

◆ Get help in a graphical environment
=> Access documentation, both locally and online.

◆ Configure local services
=> Configure the date and time, and configure a printer.

◆ Manage physical storage I
=> Understand basic disk concepts and manage system disks.

◆ Manage logical volumes
=> Understand logical volume concepts and manage logical volumes.

◆ Monitor system resources
=> Manage CPU, memory, and disk utilization.

◆ Manage system software
=> Manage system software locally and using Red Hat® Network (RHN).

◆ Get started with bash
=> Understand basic shell concepts, execute simple commands, and use basic job control techniques.

◆ Get help in a textual environment
=> Use man and info pages and find documentation in /usr/share/doc.

◆ Establish network connectivity
=> Understand basic network concepts; configure, manage, and test network settings.

◆ Administer users and groups
=> Manage users and groups.

◆ Manage files from the command line
=> Understand Linux® file system hierarchy and pathnames; manage

files from the command line.
◆ Secure Linux file access
=> Understand Linux file access mechanisms; manage file access from the GUI and the command line.

◆ Administer remote systems
=> Share and connect to a desktop; use SSH and rsync.

◆ Configure general services
=> Manage services; configure SSH and remote desktops.

◆ Manage physical storage II
=> Manage file system attributes and swap space.

◆ Install Linux graphically
=> Install Red Hat Enterprise Linux and configure the system with firstboot.

◆ Manage virtual machines
=> Understand basic virtualization concepts; install and manage virtual machines.

◆ Control the boot process
=> Understand runlevels and manage GRUB.

◆ Deploy file-sharing services
=> Deploy an FTP server and a web server.

◆ Secure network services
=> Manage a firewall; understand SELinux concepts and manage SELinux.

Course Contents:
- Automate installation with Kickstart
  ○ Automate the installation of Red Hat Enterprise Linux systems with Kickstart.

- Use regular expressions with grep

  ○ Write regular expressions that, when partnered with grep, will allow you to quickly isolate or locate content within text files.

- Create and Edit text files with vim
  ○ Introduce the vim text editor, with which you can open, edit, and save text files.

- Schedule future Linux tasks
  ○ Schedule tasks to automatically execute in the future.

- Manage priority of Linux processes
  ○ Influence the relative priorities at which Linux processes run.

- Control access to files with access control lists (ACL)
  ○ Manage file security using POSIX access control lists.

- Manage SELinux security
  ○ Manage the Security Enhanced Linux (SELinux) behavior of a system to keep it secure in case of a network service compromise.

- Connect to network-defined users and groups
  ○ Configure systems to use central identity management services.

- Add disks, partitions, and file systems to a Linux system
  ○ Manage simple partitions and file systems.

- Manage logical volume management (LVM) storage
  ○ Manage logical volumes from the command line.

- Access networked attached storage with network file system (NFS)
  ○ Access (secure) NFS shares.

- Access networked storage with SMB
  ○ Use autofs and the command line to mount and unmount SMB file

    systems.

- Control and troubleshoot the Red Hat Enterprise Linux boot process

- Limit network communication with firewall
  - Configure a basic firewall.

- Comprehensive review
  - Practice and demonstrate knowledge and skills learned in this course.