Red Hat Certified Engineer

Why RedHat Certified Engineer Applications Certifications ?

A Red Hat Certified Engineer (RHCE) is a Red Hat Certified System Administrator (RHCSA) who is ready to automate Red Hat Enterprise Linux tasks, integrate Red Hat emerging technologies, and apply automation for efficiency and innovation.

Audience Profile :

- This course is intended for professional web developers who use Microsoft Visual Studio in an individual-based or team-based, small-sized to large development environment.
- Candidates for this course are interested in developing advanced web applications and want to manage the rendered HTML comprehensively.
- They want to create websites that separate the user interface, data access, and application logic.

Audience Profile :

- This LINUX Fundamentals training course is designed for individuals that require a developed knowledge of LINUX, including administrators, developers, and architects.

Prerequisites:

- Basic technical user skills with computer applications on some operating systems are expected.

Course Overview:

- A Red Hat Certified Engineer (RHCE) is a Red Hat Certified System Administrator (RHCSA) who is ready to automate Red Hat Enterprise Linux tasks, integrate Red Hat emerging technologies, and apply automation for efficiency and innovation.
- As teams and organizations pursue digital transformation, the Red Hat Certified Engineer (RHCE) credential helps you to demonstrate skills critical to managing systems in a DevOps environment.
- One of the key tenets of DevOps is automation and the RHCE is an extension of the knowledge required to automate the deployment, management, and support of multi-system environments — making your credential even more valuable and relevant.
- By developing automation skills to complement your deployment and configuration expertise, you will show your understanding of how Ansible Automation interacts with other Red Hat technologies.
- To gain this certification, you will Start with Linux Administration 1 (RH124) Training Course, Then you will Learn Advanced Skills in Linux Administration 2 (RH134) Training Course,
- Finally you will Learn Ansible Automation in the Linux Administration 3 (EX294) Training Course.
- Becoming a Red Hat Certified Engineer will demonstrate that you are a Red Hat Certified System Administrator who can automate Red Hat Enterprise Linux tasks using Ansible Automation and shell scripting.
- You'll have knowledge of how Ansible Automation interacts with other Red Hat technologies, allowing you to add automation to your regular deployment and configuration.

In this Learning path

1. **RedHat Linux Administration I**
2. **RedHat Linux Administration II**
3. **RedHat Enterprise Linux Automation with Ansible**

RedHat Linux Administration I Outline:

- Access the command line
- Manage files from the command line
- Create, view, and edit text files
- Manage local Linux users and groups
- Control access to files with Linux file system permissions
- Monitor and manage Linux processes
- Control services and daemons
- Configure and secure OpenSSH service
- Analyze and store logs
- Manage Linux networking
- Archive and copy files between systems
- Install and update software packages
- Access Linux file systems
- Use virtualized systems
- Comprehensive review

RedHat Linux Administration II Outline:

- Run commands more efficiently by using advanced features of the Bash shell, shell scripts, and various utilities provided by Linux.
- Schedule future tasks
- Schedule commands to run in the future, either one time or on a repeating schedule.
- Improve system performance by setting tuning parameters and adjusting scheduling priority of processes.
- Interpret and set access control lists (ACLs) on files to handle situations requiring complex user and group access permissions
- Protect and manage the security of a server by using SELinux.
- Create and manage storage devices, partitions, file systems, and swap spaces from the command line.
- Create and manage logical volumes containing file systems and swap spaces from the command line.
- Implement advanced storage features
- Manage storage using the Stratis local storage management system and use VDO volumes to optimize storage space in use.
- Access network-attached storage
- Use the NFS protocol to administer network-attached storage.
- Manage the boot process to control services offered and to troubleshoot and repair problems.
- Control network connections to services using the system firewall and SELinux rules.
- Install Red Hat Enterprise Linux
- Install Enterprise Linux on servers and virtual machines.
- Obtain, run, and manage simple, lightweight services as containers on a single Linux server.

Training Solutions:

√ Offline Classroom Instructor-Led Training in our labs or onsite Locations.

√ Virtual Instructor-Led Training Via Virtual Video Conferencing Tools.

Why Learners Prefer CLS as their Training Services provider ?

■ Premuim Training Services Accredited from Global Technology Vendors.

■ Best Rated Experts & Certified Trainers in Egypt.

■ Official Training Hours, Practice Labs, Hands-on Learning.

■ CLS Training Classrooms are designed with High Edge PCs and Training Facilities.

■ Return on Training Investment is Guaranteed to boost performance.

RedHat Enterprise Linux Automation with Ansible Oultine:

- Introduce Ansible
- Describe Ansible concepts and install Red Hat Ansible Engine.
- Deploy Ansible
- Configure Ansible to manage hosts and run ad hoc Ansible commands.
- Implement playbooks
- Write a simple Ansible Playbook and run it to automate tasks on multiple managed hosts.
- Manage variables and facts
- Write playbooks that use variables to simplify management of the playbook and facts to reference information about managed hosts.
- Implement task control
- Manage task control, handlers, and task errors in Ansible Playbooks.
- Deploy files to managed hosts
- Deploy, manage, and adjust files on hosts managed by Ansible.
- Manage large projects
- Write playbooks that are optimized for larger, more complex projects.
- Simplify playbooks with roles
- Use Ansible roles to develop playbooks more quickly and to reuse Ansible code.
- Troubleshoot Ansible
- Troubleshoot playbooks and managed hosts.
- Automate Linux administration tasks
- Automate common Linux system administration tasks with Ansible.