CO1 COMPENDIUM CENTRUM EDUKACYJNE

Training: Red Hat
EX200 Red Hat Certified System Administrator (RHCSA) Exam

FORM OF TRAINING	MATERIALS	PRICE	DURATION
Traditional	Exam	215 EUR	1 day

LOCATIONS

Krakow - 5 Tatarska Street, II floor, hours: 9:00 am - 4:00 pm
Warsaw - 17 Bielska Street, hours: 9:00 am - 4:00 pm

TRAINING GOALS:

This exam and the exam objectives provided here are based on the Red Hat Enterprise Linux 7 version of the exam. The performance-based **RHCSA Exam** (**EX200**) tests your knowledge and skill in areas of system administration common across a wide range of environments and deployment scenarios. You must be an **RHCSA** to earn a **Red Hat Certified Engineer** (**RHCE**) certification.

ADUDIENCE:

- Experienced Red Hat Enterprise Linux system administrators seeking validation of their skills

- Students who have attended Red Hat System Administration I and II and are on the path to earn RHCSA certification

- Experienced Linux system administrators who require a certification either by their organization or based on a mandate (DOD 8570 directive)

- IT professionals who are on the path to earn RHCE certification

- An RHCE who is noncurrent or who is about to become noncurrent and wants to recertify as an RHCE

CONSPECT:

- 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 and VNC.
  - Log in and switch users in multiuser targets.
  - Archive, compress, unpack, and uncompress files using tar, star, gzip, and bzip2.
  - 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 including man, info, and files in /usr/share/doc.

- 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 with renice, and kill processes.
  - 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.

- Configure local storage
  - List, create, delete partitions on MBR and GPT disks.
  - Create and remove physical volumes, assign physical volumes to volume groups, and create and delete logical Volumes.
  - Create and configure LUKS-encrypted partitions and logical volumes to prompt for password and mount a decrypted file system at boot.
  - Configure systems to mount file systems at boot by Universally Unique ID (UUID) or label.
  - Add new partitions and logical volumes, and swap to a system non-destructively.

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

- Deploy, configure, and maintain systems
  - Configure networking and hostname resolution statically or dynamically.
  - Schedule tasks using at and cron.
  - Start and stop services and configure services to start automatically at boot.

- 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, a remote repository, or from the local file system.
- Update the kernel package appropriately to ensure a bootable system.
- Modify the system bootloader.

- 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 LDAP directory service for user and group information.
  - Configure a system to use an existing authentication service for user and group information.

- Manage security
  - Configure firewall settings using system-config-firewall 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

REQUIREMENTS:

- Combination of **Red Hat System Administration I** and **Red Hat System Administration II** courses or equivalent experience
- Equivalent experience to the **RHCSA Rapid Track Course** (**RH200**)
- Not sure if you have the correct skill-set knowledge? Find out by passing the online skills assessment: https://www.redhat.com/rhtapps/assessment/?partner=compendium_centrum
- Read the **RHCSA Exam** objectives http://www.redhat.com/training/courses/ex200/examobjective for more information on skills requirements.

Difficulty level

CERTIFICATE:

Participants will obtain certificates signed by Red Hat.

TRAINER:

Red Hat Certified Instructor