

Table 1

XK0-005 Objective description	XK0-005	XK0-006	LPI LE	LPIC 1	RHCSA
Choosing the right operating system	-	-	1.1,4.1	-	-
Common desktop applications	-	-	1.2	-	-
Linux desktop skills	-	-	1.2	-	-
Common programming languages	-	-	1.2	-	-
SysV init	-	-	-	101.2,3	-
Upstart	-	-	-	101.2,3	-
Manage shared libraries through ldd	-	-	-	102.3	-
Accessibility	-	-	-	106.3	-
Xinetd, inittab	-	-	-	110.2	-
MTA basics	-	-	-	108.3	-
Manage printers	-	-	-	108.4	-
Setting up your workspace	-	-	-	-	-
Software compilation from source	1.1	-	-	-	-
Localization	1.7	-	-	107.3,108.1	TZ only
AppArmor	2.5	-	-	-	-
Service mesh	3.5	-	-	-	yes
Open source software and licenses	-	1.1	1.3	-	-
Understanding computer hardware	-	1.1	4.2	-	-
CPU architectures: AARCH64, x64, RISC, AMD	-	1.1	-	-	-
X11 and XOrg configuration	-	1.1	-	106.1	-
The Graphical working environment	-	1.1	-	106.2	-
Graphical environments	-	1.1	-	106.1,2	-
Introduction to Linux	1.1	1.1	1.1,1.2	-	-
Linux distributions: RPM vs DEB	1.1	1.1	1.1,1.2	-	-
File System Hierarchy	1.1	1.1	2.3	104.1	yes
Basic boot process	1.1	1.1	-	101.2,3	yes
Listing hardware information	1.1	1.1	-	101.1	-
Configure Grub, Grub2 in-depth	1.7	1.1,5.2	-	102.2	yes
Custom hardware, embedded, GPU use-cases	-	1.2	-	-	-
Configure kernel options and modules	1.7	1.2	-	102.2	yes
Storage concepts	1.1	1.3	-	102.1	yes
SAN and NAS	1.3	1.3	-	-	-
Inspecting RAID implementations	1.3	1.3	-	-	-
Monitoring storage space and disk usage	1.3	1.3	-	104.2	yes
Monitoring storage space and disk usage (basics)	1.3	1.3	-	104.2	yes
Storage hardware	1.3	1.3	-	101.1	yes
Disk partitioning	1.3	1.3	-	102.1,104.1	yes
File system management	1.3	1.3	-	102.1,104.1	yes
Mounting local and remote devices	1.3	1.3	-	104.3	yes
Creating and modifying volumes with LVM	1.3	1.3	-	-	yes
Interface management - basics	1.5	1.4	4.4	109.1	yes
Name resolution - basics	1.5	1.4	4.4	109.2,4	yes
Interface management	1.5	1.4	4.4	109.1	yes
Name resolution	1.5	1.4	4.4	109.2,4	yes
Network monitoring	1.5	1.4	-	109.3	yes

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Remote networking tools	1.5	1.4	-	multi	yes
File editing	1.2	1.5	3.3	103.8	yes
Relative and absolute paths	3.1	1.5	2.2	103.1,2,3	yes
Common script utilities	3.1	1.5,4.2	3.2,3.3	103.1,2,3	yes
Common script utilities	3.1	1.5,4.2	3.2,3.3	103.1,2,3	yes
Shell script elements	3.1	1.5,4.2	3.2,3.3	103.4	yes
Environment variables	3.1	1.5,4.2	3.2,3.3	105.1	yes
Common script utilities	3.1	1.5,4.2	3.2,3.3	103.1,2,3	yes
Shell script elements	3.1	1.5,4.2	3.2,3.3	103.x,104.7,105.1	yes
File compression, archiving and backup	1.2	1.6	3.1	103.2	yes
Copying files between systems	1.2	1.6	-	110.3	yes
Virtualization technologies, Qemu, KVM	-	1.7	-	102.6	-
VM operations	-	1.7	-	102.6	-
Virtual networking	-	1.7	-	102.6	-
Virtual machine tools	-	1.7	-	102.6	-
File formats for cloud hosts and VMs	3.4	1.7	-	-	yes
Bootstrapping of cloud hosts and VMs	3.5	1.7, 4.1	-	-	-
Device types in /dev	1.1	2.1	-	101.1	-
File and directory operations	1.2	2.1	2.3,2.4	103.1,2,3	yes
File metadata	1.2	2.1	2.3,2.4	104.5	yes
Soft and hard links	1.2	2.1	5.4	104.6	yes
Account creation and deletion	2.2	2.2	5.1	107.1	yes
Account management	2.2	2.2	5.1,5.2	107.1	yes
Advanced account management	2.2	2.2	-	110.1	yes
Process management	1.4	2.3	-	103.5,6	yes
Scheduling services	1.4	2.3	-	107.2	yes
Language specific package management: pip, cargo, npm	-	2.4	-	-	-
Common server applications (services)	1.4	2.4	1.4	multi	-
Sandboxed applications	1.6	2.4	-	-	-
Installing new software - basics	1.6	2.4	1.2	102.4,5	yes
Package management	1.6	2.4	-	102.4,5	yes
System updates	1.6	2.4	-	102.4,5	yes
RPM in-depth	1.6	2.4	-	102.4,5	-
DPKG in-depth	1.6	2.4	-	102.4,5	-
Updating software configuration files	1.7	2.4	-	multi	yes
Basic boot process	1.1	2.5	-	101.2,3	yes
System services	1.4	2.5	-	101.2,3	yes
Configure common system services	1.7	2.5	-	108.1	yes
Given a scenario, use systemd to diagnose and resolve common problems with a Linux system.	4.5	2.5	-	multi	yes
Given a scenario, use systemd to diagnose and resolve common problems with a Linux system.	4.5	2.5	-	multi	yes
Container management	3.2	2.6	-	-	yes
Container image operations	3.2	2.6	-	-	yes
Single-node, multicontainer use cases	3.5	2.6	-	-	-
Container persistent storage	3.5	2.6	-	-	yes
Container networks	3.5	2.6	-	-	yes

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Container registries	3.5	2.6	-	-	yes
System auditing: auditd, audit.rules	-	3.1	-	-	yes
Syslog	-	3.1	-	101.2,3	-
Logging services (advanced)	-	3.1	-	108.2	yes
Logging services (basic)	-	3.1	4.3	108.2	yes
Authentication configuration (PAM)	2.1	3.1	-	110.2	-
Authentication concepts: Kerberos, Samba, SSSD, LDAP and more	3.1	3.1	-	110.2	-
Firewall use cases	2.3	3.2	-	-	yes
Common firewall technologies	2.3	3.2	-	-	yes
Key firewall features	2.3	3.2	-	-	yes
Linux hardening	2.1	3.3	-	110.2	-
SSH (in-depth)	2.4	3.3	-	110.3	yes
Executing commands as another user (sudo config)	2.4	3.3	-	110.1	yes
Executing commands as another user - basics	2.4	3.3	5.1	110.1	yes
SSH basics	2.4	3.3	-	110.3	yes
File permissions	2.5	3.3	5.3	104.5	yes
Security-enhanced Linux (SELinux)	2.5	3.3	-	-	yes
Access control command-line utilities	2.5	3.3	-	multi	yes
Account hardening	multi	3.4	-	multi	yes
Using GPG	-	3.5	-	110.3	-
Managing PKI certificates	2.1	3.5	-	-	-
Certificate use cases	2.1	3.5	-	-	-
Cryptographic concepts: GPG, LUKS, TLS/SSL, VPN	multi	3.5	-	110.3	-
Concepts: Malware detection and response	-	3.6	-	-	-
Concepts: Vulnerability scanning	-	3.6	-	-	-
Concepts: File integrity: AIDE, rootkit hunter, signature validation	-	3.6	-	-	-
Concepts: Secure data destruction: shred, badblock, dd	-	3.6	-	-	-
Hardening standards: openSCAP, CIS benchmarks	2.1	3.6	-	-	-
Security banners	2.1	3.6	-	-	yes
OpenTofu: provider, resource, state, API	-	4.1	-	-	-
Kubernetes: ConfigMap, secrets, pods, deployments, volumes, more	-	4.1	-	-	-
Docker Swarm: service, nodes, tasks, networks, scale	-	4.1	-	-	-
Docker Podman Compose: compose file, up/down, logging	-	4.1	-	-	-
Puppet: classes, certificates, modules, facts, agents	-	4.1	-	-	-
Continuous integration / continuous deployment	3.4	4.1	-	-	-
Infrastructure-as-code utilities	3.4	4.1	-	-	yes
Ansible: playbooks, inventory, modules, etc	3.4	4.1	-	-	-
Kubernetes benefits and application use cases	3.5	4.1	-	-	-
Python fundamentals and best practices	-	4.3	-	-	-
Setting up a Python working environment	-	4.3	-	-	-
Git operations	3.3	4.4	-	-	-
Advanced Git topics	3.4	4.4	-	-	-
Use-cases of AI: code, regex, IaC, documentation, code optimization, more	-	4.5	-	-	-
AI best practices	-	4.5	-	-	-
AI data governance	-	4.5	-	-	-
AI prompt engineering	-	4.5	-	-	-

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Monitoring concepts, data acquisition, configuration	-	5.1	-	-	-
Kernel panic	1.1	5.2	-	101.2,3	yes
Given a scenario, analyze and troubleshoot storage issues.	4.1	5.2	-	101.1,104.2	yes
Given a scenario, analyze and troubleshoot network resource issues.	4.2	5.3	-	109.3	yes
Given a scenario, analyze and troubleshoot user access and file permissions.	4.4	5.4	-	104.5	yes
Given a scenario, analyze and troubleshoot central processing unit (CPU) and memory issues.	4.3	5.5	-	103.5,6	yes
Logging in, shell commands, man-pages	multi	multi	2.1,2.2	110.3	yes