

COMPTIA A+ CORE 1 (220-1001) EXAM CERT PREP 4: STORAGE AND PERIPHERALS

OBJECTIVE MAPPING*

EPISODE 1: INTRODUCTION TO MASS STORAGE

CORE 1 EXAM OBJECTIVES

DOMAIN 3.0 - HARDWARE

3.4 Given a scenario, select, install and configure storage devices

- Optical drives
- Solid-state drives
 - M2 drives
- Magnetic hard drives
 - Sizes:
 - 2.5
 - 3.5

EPISODE 2: MAGNETIC DISK DRIVES

CORE 1 EXAM OBJECTIVES

DOMAIN 3.0 - HARDWARE

3.4 Given a scenario, select, install and configure storage devices

- Solid-state drives
 - SATA 2.5
- Magnetic hard drives
 - 5,400rpm
 - 7,200rpm
 - 10,000rpm
 - 15,000rpm

3.5 Given a scenario, install and configure motherboards, CPUs, and add-on cards

- Motherboard connectors types
 - SATA
- Expansion cards
 - eSATA card

EPISODE 3: SOLID STATE DRIVES

CORE 1 EXAM OBJECTIVES

DOMAIN 3.0 - HARDWARE

3.4 Given a scenario, select, install and configure storage devices

- Solid-state drives
 - NVME

EPISODE 4: SCSI

CORE 1 EXAM OBJECTIVES

DOMAIN 3.0 - HARDWARE

3.1 Explain basic cable types, features, and their purposes

- Hard drive cables
 - SCSI

3.2 Identify common connector types

- SCSI

EPISODE 5: BOOT ORDER

CORE 1 EXAM OBJECTIVES

DOMAIN 3.0 - HARDWARE

3.5 Given a scenario, install and configure motherboards, CPUs, and add-on cards

- BIOS/UEFI settings
 - Boot options

EPISODE 6: NEW INSTALLATION - FIRST DRIVE

CORE 1 EXAM OBJECTIVES

DOMAIN 3.0 - HARDWARE

3.4 Given a scenario, select, install and configure storage devices

- Configurations
 - RAID 0, 1, 5, 10

EPISODE 7: RAID

CORE 1 EXAM OBJECTIVES

DOMAIN 3.0 - HARDWARE

3.4 Given a scenario, select, install and configure storage devices

- Configurations
 - RAID 0, 1, 5, 10

EPISODE 8: HARDWARE RAID

CORE 1 EXAM OBJECTIVES

DOMAIN 3.0 - HARDWARE

3.4 Given a scenario, select, install and configure storage devices

- Configurations
 - RAID 0, 1, 5, 10

EPISODE 9: MASS STORAGE TROUBLESHOOTING

CORE 1 EXAM OBJECTIVES

DOMAIN 5.0 - HARDWARE AND NETWORK TROUBLESHOOTING

5.3 Given a scenario, troubleshoot hard drives and RAID arrays

- Common symptoms
 - Read/write failure
 - Slow performance
 - Loud clicking noise

- Failure to boot
- Drive not recognized
- OS not found
- RAID not found
- RAID stops working
- Proprietary crash screens (BSOD/pin wheel)
- S.M.A.R.T. errors

EPISODE 10: OPTICAL MEDIA

CORE 1 EXAM OBJECTIVES

DOMAIN 3.0 - HARDWARE

3.4 Given a scenario, select, install and configure storage devices

- Optical drives
 - CD-ROM/CD-RW
 - DVD-ROM/DVD-RW/DVD-RW DL
 - Blu-ray
 - BD-R
 - BD-RE

EPISODE 11: USB STANDARDS

CORE 1 EXAM OBJECTIVES

DOMAIN 3.0 - HARDWARE

3.1 Explain basic cable types, features, and their purposes

- Multipurpose cables
 - USB
 - USB-C
 - USB 2.0
 - USB 3.0

3.2 Identify common connector types

- USB
- Micro-USB
- Mini-USB
- USB-C

EPISODE 12: UNDERSTANDING USB

CORE 1 EXAM OBJECTIVES

DOMAIN 3.0 - HARDWARE

3.1 Explain basic cable types, features, and their purposes

- Multipurpose cables
 - USB
 - USB-C
 - USB 2.0
- USB 3.0

3.2 Identify common connector types

- USB

EPISODE 13: CONFIGURING USB

CORE 1 EXAM OBJECTIVES

DOMAIN 3.0 - HARDWARE

3.1 Explain basic cable types, features, and their purposes

- Multipurpose cables
 - USB
 - USB-C
 - USB 2.0
- USB 3.0

3.2 Identify common connector types

- USB

EPISODE 14: THUNDER AND LIGHTNING

CORE 1 EXAM OBJECTIVES

DOMAIN 3.0 - HARDWARE

3.1 Explain basic cable types, features, and their purposes

- Multipurpose cables
 - Lightning
 - Thunderbolt

3.2 Identify common connector types

- Lightning

EPISODE 15: KEYBOARDS AND MICE

CORE 1 EXAM OBJECTIVES

DOMAIN 3.0 - HARDWARE

3.6 Explain the purposes and uses of various peripheral types

- Mouse
- Keyboard

EPISODE 16: SIGHT AND SOUND

CORE 1 EXAM OBJECTIVES

DOMAIN 3.0 - HARDWARE

3.6 Explain the purposes and uses of various peripheral types

- Camera/webcam
- Speakers

EPISODE 17: READERS AND SCANNERS

CORE 1 EXAM OBJECTIVES

DOMAIN 3.0 - HARDWARE

3.4 Given a scenario, select, install and configure storage devices

- Flash
 - SD card
 - CompactFlash
 - Micro-SD card
 - Mini-SD card
 - xD

3.5 Explain the purposes and uses of various peripheral types

- ADF/flatbed scanner

- Barcode scanner/QR scanner
- Magnetic reader/chip reader
- Smart card reader

EPISODE 18: USING EXPANSION CARDS

CORE 1 EXAM OBJECTIVES

DOMAIN 3.0 - HARDWARE

3.5 Given a scenario, install and configure motherboards, CPUs, and add-on cards

- Motherboard connectors types
 - PCIe
- Expansion cards
 - USB expansion card

DOMAIN 5.0 - HARDWARE AND NETWORK TROUBLESHOOTING

5.2 Given a scenario, troubleshoot problems related to motherboards, RAM, CPUs, and power

- Common symptoms
 - Proprietary crash screens (BSOD/pin wheel)

*This document can be used to determine what CompTIA A+ exam objectives are in each episode, as well as map where those objectives are in the official “CompTIA A+ 220-1101 Exam Objectives (2.0)” PDF resource that accompanies this course.