COMPTIA A+ CORE 1 (220-1001) EXAM CERT PREP 2: MICROPROCESSING AND RAM

OBJECTIVE MAPPING*

EPISODE 1: WHAT IS A CPU?

CORE 1 EXAM OBJECTIVES

DOMAIN 3.0 - HARDWARE

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

EPISODE 2: CPU SPEEDS AND CORES

CORE 1 EXAM OBJECTIVES

DOMAIN 3.0 - HARDWARE

3.5 Given a scenario, install and configure motherboards, CPUs, and add-on cards
- CPU features
    - Single-core
    - Multicore
    - Hyperthreading
    - Speeds
    - Overclocking
- Compatibility
    - AMD
    - Intel

EPISODE 3: CACHING

CORE 1 EXAM OBJECTIVES

DOMAIN 3.0 - HARDWARE

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

EPISODE 4: 32-BIT VS. 64-BIT PROCESSING

CORE 2 EXAM OBJECTIVES**

DOMAIN 1.0 – OPERATING SYSTEMS

1.1 Compare and contrast common operating system types and their purposes
- 32-bit vs. 64-bit

- o RAM limitations
- o Software compatibility

EPISODE 5: CPU SOCKETS

DOMAIN 3.0 - HARDWARE

3.5 Given a scenario, install and configure motherboards, CPUs, and add-on cards
- Motherboard connectors types
  - o Socket types
- CPU features
- Compatibility
  - o AMD
  - o Intel

EPISODE 6: INSTALLING A CPU

DOMAIN 3.0 - HARDWARE

3.5 Given a scenario, install and configure motherboards, CPUs, and add-on cards
- CPU features
- Cooling mechanism
  - o Fans
  - o Heat sink
  - o Thermal paste

EPISODE 7: LIQUID COOLING

DOMAIN 3.0 - HARDWARE

3.5 Given a scenario, install and configure motherboards, CPUs, and add-on cards
- Cooling mechanism
  - o Liquid

EPISODE 8: RAM TECHNOLOGY

DOMAIN 3.0 - HARDWARE

3.3 Given a scenario, install RAM types
- RAM types
  - o SODIMM
  - o DDR2
  - o DDR3
  - o DDR4

EPISODE 9: RAM CAPACITY

DOMAIN 3.0 - HARDWARE

3.3 Given a scenario, install RAM types

- Single channel
- Dual channel
- Triple channel

EPISODE 10: RAM FEATURES

DOMAIN 3.0 - HARDWARE

3.3 Given a scenario, install RAM types
- Triple channel
- Error correcting
- Parity vs. non-parity

EPISODE 11: INSTALLING RAM

DOMAIN 3.0 - HARDWARE

3.3 Given a scenario, install RAM types
- RAM types
  - SODIMM
  - DDR2
  - DDR3
  - DDR4

*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+ 220-1001 Exam Objectives (2.0)" PDF resource that accompanies this course.

**Why am I seeing different Core exams than what I'm studying? In some cases, you may be watching a video series that focuses on the Core 1 exam, however some of the episodes contain Core 2 exam objectives, or vice versa. There are 2 reasons for this: 1) The other Core exam topic is covered to give you a better, fuller understanding of the surrounding topics, and 2) Some episodes contain information from both Core exams because the topics coincide with each other and are more easily taught in 1 episode than breaking them out into separate episodes.