

## COMPTIA A+ CORE 1 (220-1001) EXAM CHAPTER 10: PRINTERS

### OBJECTIVE MAPPING\*

#### EPISODE: LASER PRINTERS

##### CORE 1 EXAM OBJECTIVES

##### DOMAIN 3: HARDWARE

#### 3.11 Given a scenario, install and maintain various print technologies

- Laser
  - Imaging drum, fuser assembly, transfer belt, transfer roller, pickup rollers, separate pads, duplexing assembly
  - Imaging process: processing, charging, exposing, developing, transferring, fusing, and cleaning
  - Maintenance: Replace toner, apply maintenance kit, calibrate, clean

#### EPISODE: LASER PRINTERS

##### CORE 1 EXAM OBJECTIVES

##### DOMAIN 3: HARDWARE

#### 3.11 Given a scenario, install and maintain various print technologies

- Inkjet
  - Ink cartridge, Print head, roller, feeder, duplexing assembly, carriage, and belt
  - Calibrate
  - Maintenance: Clean heads, replace cartridges, calibrate, clear jams

#### EPISODE: IMPACT PRINTERS

##### CORE 1 EXAM OBJECTIVES

##### DOMAIN 3: HARDWARE

#### 3.11 Given a scenario, install and maintain various print technologies

- Impact
- Print head, ribbon, tractor feed
- Impact paper
- Maintenance: Replace ribbon, replace print head, replace paper

#### EPISODE: THERMAL PRINTERS

##### CORE 1 EXAM OBJECTIVES

##### DOMAIN 3: HARDWARE

#### 3.11 Given a scenario, install and maintain various print technologies

- Thermal
  - Feed assembly, heating element
  - Special thermal paper

- Maintenance: Replace paper, clean heating element, remove debris

## EPISODE: INSTALLING A LOCAL PRINTER

### CORE 1 EXAM OBJECTIVES

#### DOMAIN 3: HARDWARE

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##### **3.10 Given a scenario, configure SOHO multifunction devices/printers and settings**

- Use appropriate drivers for a given operating system
  - Configuration settings
    - Duplex Collage
    - Orientation
    - Quality
- Device sharing
  - Wired
    - USB
    - Serial
    - Ethernet

##### **3.11 Given a scenario, install and maintain various print technologies**

- Virtual
- Print to file
- Print to PDF
- Print to XPS
- Print to image

## EPISODE: SHARING PRINTERS

### CORE 1 EXAM OBJECTIVES

#### DOMAIN 1: MOBILE DEVICES

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##### **1.8 Given a scenario, configure Microsoft Windows networking on a client/desktop**

- Printer sharing vs. network printer mapping

#### DOMAIN 2: HARDWARE

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##### **2.5 Summarize the properties and purposes of services provided by networked hosts**

- Server roles
  - Print server

#### DOMAIN 3: HARDWARE

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##### **3.10 Given a scenario, configure SOHO multifunction devices/printers and settings**

- Device sharing
  - Integrated print server (hardware)
- Public/shared devices
  - Sharing local/networked device via operating systems
  - Data privacy
    - User authentication on the device
    - Hard drive caching

## EPISODE: INSTALLING WIRELESS AND CLOUD PRINTERS

### CORE 1 EXAM OBJECTIVES

#### DOMAIN 2: HARDWARE

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## 2.1 Compare and contrast TCP and UDP ports, protocols, and their purposes

- 427 - SLP

### DOMAIN 3: HARDWARE

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#### 3.10 Given a scenario, configure SOHO multifunction devices/printers and settings

- Device sharing
  - Wireless
    - Infrastructure vs. ad hoc
  - Cloud printing/remote printing
- Public/shared devices
  - Sharing local/networked device via operating systems
    - TCP/Bonjour/AirPrint

### EPISODE: TROUBLESHOOTING PRINTERS

#### CORE 1 EXAM OBJECTIVES

### DOMAIN 5: HARDWARE AND NETWORK TROUBLESHOOTING

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#### 5.6 Given a scenario, troubleshoot printers

- Common symptoms
  - Streaks
  - Faded prints
  - Ghost images
  - Toner not fused to the paper
  - Creased paper
  - Paper not feeding
  - Paper jam
  - No connectivity
  - Garbled characters on paper
  - Vertical lines on page
  - Backed-up print queue
  - Low memory errors
  - Access denied
  - Printer will not print
  - Color prints in wrong print color
  - Unable to install printer
  - Error codes
  - Printing blank pages
  - No image on printer display

### EPISODE: 3D PRINTING

#### CORE 1 EXAM OBJECTIVES

### DOMAIN 3: HARDWARE

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#### 3.11 Given a scenario, install and maintain various print technologies

- 3D printers
  - Plastic filament

\*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.

\*\*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.