



3.0 Mobile Devices

3.1 Install and configure laptop hardware and components.

- **Expansion options**
 - Expresscard /34
 - Expresscard /54
 - SODIMM
 - Flash
 - Ports/Adapters
 - Thunderbolt
 - DisplayPort
 - USB to RJ-45 dongle
 - USB to WiFi dongle
 - USB to Bluetooth
 - USB Optical Drive
- **Hardware/device replacement**
 - Keyboard
 - Hard drive
 - SSD vs. hybrid vs. magnetic disk
 - 1.8in vs. 2.5in
 - Memory
 - Smart card reader
 - Optical drive
 - Wireless card
 - Mini-PCIe
 - Screen
 - DC jack
 - Battery
 - Touchpad
 - Plastics/frames
 - Speaker
 - System board
 - CPU

3.2 Explain the function of components within the display of a laptop.

- **Types**
 - LCD
 - TN vs. IPS
 - Fluorescent vs. LED backlighting
 - OLED
- **WiFi antenna connector/placement**
- **Webcam**
- **Microphone**
- **Inverter**
- **Digitizer**

3.3 Given a scenario, use appropriate laptop features.

- **Special function keys**
 - Dual displays
 - Wireless (on/off)
 - Cellular (on/off)
 - Volume settings
 - Screen brightness
 - Bluetooth (on/off)
 - Keyboard backlight
 - Touch pad (on/off)
 - Screen orientation
 - Media options (fast forward/rewind)
 - GPS (on/off)
 - Airplane mode
- **Docking station**
- **Physical laptop lock and cable lock**
- **Rotating/removable screens**



3.4 Explain the characteristics of various types of other mobile devices.

- **Tablets**
 - **Smartphones**
 - **Wearable technology devices**
 - Smart watches
 - Fitness monitors
 - Glasses and headsets
 - **Phablets**
 - **e-Readers**
 - **Smart camera**
 - **GPS**
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3.5 Compare and contrast accessories and ports of other mobile devices.

- **Connection types**
 - NFC
 - Proprietary vendor-specific ports (communication/power)
 - MicroUSB/miniUSB
 - Lightning
 - Bluetooth
- IR
- Hotspot/tethering
- **Accessories**
 - Headsets
 - Speakers
 - Game pads
 - Docking stations
- Extra battery packs/battery chargers
- Protective covers/water proofing
- Credit card readers
- Memory/MicroSD