



IT ESSENTIALS Chapter 6 Laptops and Portable Devices V 4.1

- A technician needs to have knowledge of what kinds of portable devices?
- List the types of portable computers
- Why are laptops a popular technology?
- List portable handheld devices
- What features are offered by PDA's and Smartphones?
- What are two popular features of laptops?
- Common uses of laptops
- What is a PDA?
- What is the difference between PDA and Smartphone?
- What are the connectivity types for smartphones and PDA's?
- List common laptop features?
- What does a port do?
- List some examples of ports
- What could have an LED indicator
- List examples of input devices
- What is required when installing a device?
- Where are two places to look to configure devices?
- What is the purpose of the Fn key?
- What does the LCD cutoff switch do?
- What is a base station?
- List the two types of base stations
- List the differences between a docking station and a port replicator
- What does a desktop component have that a laptop component does not?
- What do laptop manufactures focus on?
- Difference between laptop/desktop motherboards
- What does the CPU do?
- Summarize a laptop processor
- What is power management?
- What is the difference between laptop/desktop power supply?
- Two methods of power management
- List examples expansion devices
- Define hot-swappable
- Two most commonly used ports for expansion devices
- Three types of storage methods
- Describe magnetic hard drives
- Describe Solid State Drives
- Describe optical drive
- Describe the difference between R and R/W for optical media
- Compare the storage space between CD, DVD and Blu-ray
- Examples of devices that connect using a PC Card
- Give specifications for PCMCIA standard Type I and an example
- Give specifications for PCMCIA standard Type II and an example
- Give specifications for PCMCIA standard Type III and an example
- Give specifications for PC ExpressCard/34 and an example
- Give specifications for PCMCIA standard Type III and an example
- Why must a technician know how to configure laptops?
- How do you increase the amount of time a laptop can be disconnected from AC power?
- Define the ACPI Power Management States
- BIOS configuration affect what conditions
- What can you control under the "Use Power Options" for in XP/Vista
- What are the laptop Power Options for XP if not shutting down
- What are the laptop Power Options for Vista if not shutting down
- What should all technicians do before removing components?
- What are common components that might need replaced?
- What ways do laptops communicate?
- Describe the process of analog systems?
- Describe the process of digital systems?
- List the standards used in 1G of cellular phones?
- List the standards used in 2G of cellular phones?
- What started in cellular technology with the release of 3G standards?
- What do you do to keep a laptop clean and running at optimal conditions?
- What are the common procedures when cleaning any parts of a laptop?
- What is used to clean the keyboard?
- What is used to clean the vents?
- What is used to clean the LCD?
- What is used to clean the touch pad?
- What is used to clean the floppy drive, optical drive, or optical medium?
- What guidelines should a technician follow to ensure optimal operating performance?
- What should a technician determine when troubleshooting a laptop?
- What can cause computer problems?
- Identify the steps of the troubleshooting process