Chapter 23

Portable Computing

Episode: **Power Management**

Objective(s):
Core 1: 3.1 Explain basic cable types and their connectors, features, and purposes.
Core 1: 5.5 Given a scenario, troubleshoot common issues with mobile devices.
Core 2: 1.4 Given a scenario, use the appropriate Microsoft Windows 10 Control Panel utility.

Episode Description

Saving power is important, especially on mobile devices and laptops. Every CPU has a built-in feature to shut down different parts of a computer to reduce power needs. It's up to the techs to make sure the power management settings are optimal for the users.

Key Terms

- 0:33 - Objective term - AC adapter
- 1:03 - Vendor-specific power cable
- 2:04 - Objective term - Check for damaged jack/port
- 3:03 - Advanced Configuration and Power Interface (ACPI)
- 5:44 - ACPI level 0 - means it's on

Key Terms

- 5:56 - Objective term - ACPI level 3 - sleep mode
- 6:28 - Objective term - ACPI level 4 - hibernation mode
- 7:03 - dir /ah
- 7:23 - Objective term - Sleep vs. Hibernate mode
- 7:26 - Hibernate mode uses less power then sleep
- 7:58 - Objective term - Power plan

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Quick Review

- ACPI level 0 means the power is on, but nothing is being used
- ACPI level 3 is sleep mode; RAM is powered but the CPU is powered off
- ACPI level 4 is hibernation; RAM data is copied to mass storage and RAM and CPU are powered off
- All operating systems provide power management utilities