A+ Core 1 and Core 2 CertMaster Perform 15.0

2.1 Cables and Connectors

> **Core 1 Exam Objectives Covered**
>
> - 3.1 Compare and contrast display components and attributes.
> - 3.2 Summarize basic cable types and their connectors, features, and their purposes.

As an IT professional, you are tasked with setting up a new office for a small business. The office includes multiple workstations, a conference room, and various types of network equipment. You must ensure all components are properly connected, configured, and functional. In this lesson, you will learn the different components of a PC and how they all communicate with each other and function properly.

Learning Outcomes

As you study this lesson, answer the following questions:

- How would you upgrade the internal components of the older PCs?
- What video adapters (e.g., HDMI to DisplayPort) are appropriate for connecting monitors to PCs?
- When is it necessary to use powered USB hubs to support multiple devices?
- How can USB hubs be used to expand the number of available USB ports on each workstation?
- How do you mount a 4K display in the conference room and connect it to the power source?
- What steps should be taken to ensure all connections are secure and to test each input source for proper video and audio transmission?
- What are the steps to use Lightning to USB adapters to connect iPhones and iPads to PCs for data transfer and charging?
- How do you open the tower cases of file servers and install new SATA hard drives?