3.2.5 Install a Power Supply

Your Performance

Your Score: 5 of 5 (100%) Pass Status: **Pass**
Elapsed Time: 12 minutes 15 seconds Required Score: 100%

Task Summary

Actions you were required to perform:

- ✓ Install the power supply with the PCIe power connector into the case
- ✓ Plug in internal components Show Details
- ✓ Plug the computer into a power source
- ✓ Turn the power supply switch on
- ✓ Boot the computer into Windows

Explanation

In this lab, your task is to complete the following:

- Install a power supply based on the following requirements:
  - The power supply must have the appropriate power connectors for the motherboard and the CPU.
  - Make sure the power supply you select will support adding a graphics card that requires its own power connector.
- Make the following connections from the power supply:
  - Connect the motherboard power connector.
  - Connect the CPU power connector.
  - Connect the power connectors for the SATA hard drives.
  - Connect the power connector for the optical drive.
  - Plug the computer in using the existing cable plugged into the power strip.
  - Turn on the power supply.
- Start the computer and boot into Windows.

Complete this lab as follows:

1. Install a power supply as follows:
   a. Above the computer, select **Motherboard** to switch to the motherboard view.
   b. Select the **motherboard** to view the documentation.
   c. Under Selected Component, select **Details** to identify the existing connectors for the motherboard.
   d. Select the **Specifications** tab to determine how many pins the main motherboard and the CPU power supply require.
   e. Close the Details window.
   f. On the Shelf, expand **Power Supplies**.
   g. Select a ***power supply***.
   h. Under Selected Component, examine each of the ***power connectors*** looking for all of the connectors required for this scenario.
   i. Repeat steps 1g–1h for each power supply.
2. Install the power supply as follows:
   a. From the Shelf, drag the **power supply** to the area in the case below the motherboard.
   b. Under Selected Component, drag the **20+4 pin connector** to the motherboard to connect the motherboard main power connector.
   c. Under Selected Component, drag the **8-pin CPU power connector** to the motherboard to connect the CPU power connector.
3. Connect the SATA hard drives as follows:
   a. Under Selected Component, drag a **15-pin SATA power connector** to the power port on the hard drive.
   b. Under Selected Component, drag a **15-pin SATA power connector** to the power port on the second hard drive.
   c. Under Selected Component, drag a **15-pin SATA power connector** to the power port on the third hard drive.
4. Connect the optical drive as follows:
   a. Above the computer, select **Drive Bays** to switch to the Drive Bays view for the computer.

b. Under Selected Component, drag a **15-pin SATA power connector** to the power port on the optical drive.

5. Plug the computer into the wall outlet as follows:
   a. Above the computer, select **Back** to switch to the back view of the computer.
   b. Above the power strip in Partial Connections, select the **power cord**.
   c. Under Selected Component, drag the **AC Power Connector** to the power supply port.
   d. On the power supply, click the **power switch** to move it to the On position.
   e. Above the computer, select **Front** to switch to the front view for the computer.
   f. On the computer, select the **power** button to turn on the computer and boot into Windows.
