# 8.1 Printers

As you study this section, answer the following questions:

- Which printer type is ideal for printing carbon-copy documents?
- What is a common application for a thermal printer?
- Why does a laser printer use heat in the printing process?
- What are the two most common printer types?
- In the laser printing process, how does the primary corona prepare the photosensitive drum for writing?

In this section, you will learn to:

- Choose a printer to fulfill the requirements for a given situation

Key terms for this section include the following:

| Term | Definition |
|---|---|
| Dot matrix | An impact printer. |
| Characters per second (CPS) | A unit of measurement that describes the printing speed of a dot matrix printer. |
| Inkjet | A non-impact printer that stores ink in a reserve. |
| Dots per inch (DPI) | A unit of measurement that describes the crispness of inkjet printer's image. |
| Dye sublimation | The process of turning a water-based dye ink into a gas that bonds with polymers. |
| Solid ink | A printer that melts ink onto a print head. |
| Thermal printer | A non-impact printer that uses heat to cause a reaction on specially treated paper. |
| Cyan, magenta, yellow, and black (CMYK) | The color system used by thermal printers. |
| Laser printer | A printer that uses a laser and electrical charges to transfer images to paper. |
| 3D printer | A printer that creates a physical object from a digital model. |

This section helps you prepare for the following certification exam objectives:

| Exam | Objective |
|---|---|
| CompTIA 220-1001 | 3.11 Given a scenario, install and maintain various print |

technologies.

- Laser
  - Imaging drum, fuser assembly, transfer belt, transfer roller, pickup rollers, separate pads, duplexing assembly
  - Imaging process: processing, charging, exposing, developing, transferring, fusing, and cleaning
- Inkjet
  - Ink cartridge, print head, roller, feeder, duplexing assembly, carriage, and belt
  - Calibrate
- Thermal
  - Feed assembly, heating element
  - Special thermal paper
- Impact
  - Print head, ribbon, tractor feed
  - Impact paper
- 3D printers
  - Plastic filament