



# Objectives

Identify the power tools commonly used by carpenters.

- c. Describe the safe use of drill presses.
- d. Describe the safe use of routers and laminate trimmers.
- e. Describe the safe use of portable power planes.
- f. Describe the safe use of power metal shears.
- g. Describe the safe use of pneumatic and cordless nailers and staplers.



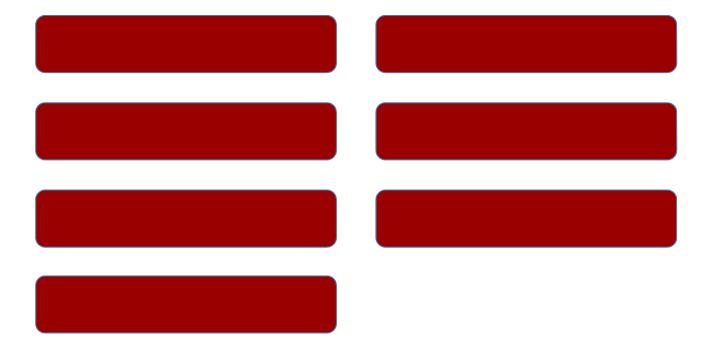
# Performance Task

- 2. Demonstrate or describe the safe and proper use of five of the following power tools:
  - Circular saw
  - Portable table saw
  - Compound miter saw
  - Drill press

- Router/laminate trimmer
- Portable power plane
- Power metal shears
- Pneumatic nailer/stapler

# **Kickoff Activity**

 What power tools are needed to construct a freestanding one-car garage?



#### Section 2.3.0

- Drill presses consist of an electric drill and work table combined into one unit.
- Floor and benchtop models are common for shop work.

Electromagnetic-base drill presses are common on a job site.



#### Section 2.4.0

- A router is a portable electric tool used to cut joints and patterns in wood.
- Routers have high-speed motors that allow the tools to make clean, smooth cuts.
  - Shaping edges
  - Rabbeting
  - Beveling
  - Dovetailing
  - Dadoing, fluting, and reeding
  - Mortising



#### Section 2.4.0

 A laminate trimmer is a specialized type of router used to trim and shape the edges of plastic laminate materials, such as those used for countertops.

#### Section 2.5.0

- A portable power plane is used to fit trim and framing members that will be fastened together.
- Common uses of power planes include:
  - Straightening
  - Edge planing
  - Chamfering
  - Beveling



#### Section 2.6.0

- Power metal shears are used to make burrfree cuts in sheet metal, metal strips, special lightweight materials, and steel studs.
- Common applications for power metal shears include:
  - Chimney and roof flashing
  - Making openings in ductwork
  - Trimming metal roof panels
  - Clipping strapping and stud hangers



#### Section 2.7.0

Pneumatic
nailers and
staplers are
fastening tools
powered by
compressed air,
which is fed to



the tool through an air hose connected to an air compressor.

### Section 2.7.0

 Identify whether a nailer or stapler is the best tool for the following tasks.

Task	Nailer	Stapler
Installing finish work	X	
Installing ceiling tile		X
Installing paneling		X
Constructing cabinets	X	
Installing insulation		X
Installing framing	X	

#### Section 2.7.0

 Pneumatic nailers and staplers are extremely dangerous. They are just as dangerous and deadly as a firearm. NEVER point these tools at anyone or in anyone's direction. When nailing or stapling, keep your hands away from the contact area.

## Wrap Up

Be prepared to list the safety precautions for each of the power tools your instructor lists on the board.

Next Lesson: Review and Testing Review Sections 1.0.0–2.7.0

