

Power Tools Lab

Program: Electrician Technician

Course: EL110 Basic Safety

Objectives: Under the supervision of your instructor, you should be able to:

- Visually inspect and identify the following tools to determine if they are safe to use.
- Demonstrate proper usage of tools.

Lab Equipment:

Work benches

Required Tools:

- Pencil
- Cordless drill
- Hammer drill
- Circular saw
- Reciprocating saw
- Bandsaw
- Hole-saw (use with drill)
- Auger

Materials:

- Plywood
- 2" x 4" studs
- EMT pipe
- Cement block
- Anchor bolt kit
- Metal and wood blades for reciprocating saw

Safety (PPE):

- Safety glasses/goggles
- Hard Hat

Resources: N/A

Required Time: 300 Minutes

Shop Maintenance:

- All work will cease 20 minutes prior to the end of class.
- All work areas must be cleaned.
- Tools and equipment must be cleaned and returned to the designated areas (cage, tool room, cabinets etc.)

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- Any broken or missing tools must be reported immediately.
- Tools and equipment are students' responsibility.

Procedures (Eye protection must be always worn)

- 1. Layout all tools on the table, identify as many tools as you know by name and explain the use of as many tools as you know.
- 2. Visually inspect tools to determine if they are safe to use.
- 3. Cut a 6" piece of a 2" X 4" wood stud using the circular saw.
- 4. Cut a 3" piece of ½" EMT pipe using a reciprocating saw.
- 5. Cut a piece of plywood using a reciprocating saw.
- 6. Cut a 3" piece of ½" EMT pipe using a bandsaw.
- 7. Drill a hole into plywood using a hole-saw and drill.
- 8. Drill a hole into a 2" X 4" stud using an auger bit and a drill.
- 9. Drill a hole and install an anchor into a cement block using a hammer drill.