

Shop Layout Project

This project is designed to introduce you to the various safety devices, machines, work stations and storage areas in the Construction Shop. You will also learn about measurement, scaling and basic hand drafting techniques as part of this unit.

Challenge:

You are to create a floor plan of the Construction shop. The drawing will be made to 3/16" scale and include the following types of items:

1. Safety devices
2. Machines
3. Work Stations
4. Storage Areas

See the back page for a list of the required items. Use symbols to indicate the size and location of the various items. All items should be labeled. Include a legend, boarder and title block on your drawing. Dimensions are not required.

Evaluation:

- Safety Devices /10
- Machines and Work Stations /20
- Storage Areas /10
- Labels/Legend /10
- Scaling /10
- Neatness /10

Total: /70

Shop Layout Items

A. Safety:

1. Power Shut Off
 2. First Aid Kit
 3. Fire Extinguishers
 4. Fire Alarm Pull
 5. Exits/Doors
 6. Sink
 7. Dust Collector Switch
- /10**

B. Machines:

1. Sliding Compound Mitre Saw
 2. Jointers (2)
 3. Thickness Planner
 4. Table Saws (2)
 5. Band Saws (2)
 6. Sanders (3)
 7. Drill Presses (2)
 8. Mitre Saw
 9. Router
 10. Grinder
- /16**

C. Work Stations:

1. Work Tables (9)
 2. Teachers Desk
- /4**

D. Storage:

1. Chalk Board Book Ledge
 2. Tool Cupboards (Hand & Power)
 3. Project Storage Room
 4. Lumber Rack
 5. Screw and Nail Bins
 6. Clamp Storage Cupboard (Mitre Saw)
 7. Misc. Storage Cupboard (Sliding Compound Mitre Saw)
 8. Scrap Wood Bins (2)
- /10**

Labels: All items correctly labeled and shown in a legend. **/10**

Scaling: Drawing is correctly drawn to 3/16" scale. **/10**

Neatness:

- Drawing is neat and clean (as possible) using proper line weight and a pencil.
 - Includes a boarder and title block (title, name, date, scale)
 - Text is done neatly with capital letters 1/8" high.
- /10**

Total: /70