

Civil Draughtsman Ship & Auto cad

Civil draughts man:

The civil draughts man is very important course in the field of civil construction. The construction of the building is done by referring to the drawing of plan, section and elevation. This drawings are drawn on scale hence they are called “measured drawing”

Plan:

Plan is the horizontal cutting of a building. Plan shows the lengths and breadths of rooms, thickness of walls, doors, windows position, length and size of steps, stairs. Whatever is above the cutting plans is shown by dotted lines. For example Sunshades, Chajjas, Lofts, Overheads, Storages, Portico, Balcony etc...

Section:

Section is the vertical cutting of a building. It is imaged that the building is cut vertically through a convenient place of show the maximum details of heights and depths. Section shows the height of doors, windows, ventilator, basement, Walls, parapet wall etc.. It also shows the thickness of walls and basement, flooring, parapet wall thickness of roof and the depth of foundation, cc bed etc.

Elevation:

Elevation is the outer view of the finishing buildings; elevation shows the finished building the design of railings, parapet wall, chajja, sunshades, portico etc.

Types of elevations:

Front, back, left, right, perspective elevation.

Site Plan:

Shows the outline of the Proposed Construction in relation to the total Plot. In Site Plan you have to show the outer dimension of the plot and the setbacks, Open spaces loft all around. And also the length and breadth of the proposed construction. The site plan is drawn on a smaller scale than the plan. And the neighbors House / Plot No's, North Sign are also shown in the Plan.

Location Plan:

It shows where the proposed construction is being done. You have to show Road width, Approach from main Road and also shop, government offices or Hotel or any land mark near the site.

Auto Cad: (Automatic computer aided designing or drafting)

The preparation of a drawing of an object with the help of computer is called “AutoCAD”.

Auto CAD developed in 1982 at New York.

It is a surname of Autodesk.

It is a package / software.

Auto CAD Versions are: release 10, 11, 12, 13, and 14-----old versions install on DOS. (CUI – Character User Interface)

AutoCAD 2000, 2002 Install on Windows 98 (GUI – Graphical User Interface)

AutoCAD 2004, 2005, 2006, 2007, and 2008-----new versions install on Windows XP.

2D:

Those objects which are having length and width (L x W) (Or) x-axis, y-axis

2d views are – top, bottom, front, back, left, right.

3D:

Those objects which are having length, width and thickness

X axis, y axis, z axis.

3d views are – southeast, southwest, northwest, northeast.

Auto CAD used in various fields like:

- 1) **Civil:** In civil field used to drawing of Domestic, commercial, Industrial plans, Road & Bridges plans, Sections & Elevation plans, Layouts etc...
- 2) **Mechanical:** In this field draw Machine drawing, machine parts and isometric views of machines.
- 3) **Electrical:** In this field draw Transformers designs, Electrical symbols, electrical layouts etc...
- 4) **HVAC:** Heat Ventilation Air Conditioner. In this field draw AC plans, Ac ducts, and Ac supply plans etc...

Differences of Civil Draughtsman Ship and Auto Cad

Civil draughtsman ship

1. Use tools in civil draughts man
 - Pencil
 - Table
 - Tee - Square (or) Drafter
 - Eraser
 - Sheets
 - Drawing board clips
 - Set square
 - Circle master
 - Compass
 - Scales set
2. To draw drawings take more time
3. Less clarity
4. In expensive

Auto cad

1. Auto cad package and system.
2. To draw drawings take less time
3. More clarity
4. Expensive

For More Notes Contact us:

Shark International Safety Technologies

Email : info@sistindia.org | info.sistindia@gmail.com

Call : +91-9603 881 038 | +91-9700 459 909



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