

Topic: Board Practice

Introduction

Board practice is the **foundation of technical drawing**.

It involves learning the correct way to **set up your drawing workspace** and use your tools properly. This ensures that your drawings are:

- **Neat**
- **Accurate**
- **Professional**

Without proper board practice, even the best designs can look rough or untidy.

1. Fixing the Drawing Sheet to the Drawing Board

Purpose of Fixing the Drawing Sheet:

- Prevents the paper from **moving while drawing**
 - Ensures **alignment and straight lines**
 - Maintains **neatness and professionalism**
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Materials Needed:

Item	Use
Drawing board	Flat surface for drawing
Drawing sheet	The paper where you draw
Drawing pins or masking tape	To hold the sheet in place
T-square	To ensure the paper is straight

Step-by-Step Procedure:

1. **Place the drawing board on a flat table** or drawing stand.

2. Take your **drawing sheet** (A4, A3, A2, or A1 size depending on the task).
 3. **Align the sheet** using the **T-square**:
 - Place the bottom edge of the sheet against the T-square blade.
 - Ensure the paper is **parallel to the bottom of the drawing board**.
 4. Use **drawing pins** (one at each corner) or **masking tape** to **secure the sheet**.
 5. **Check for wrinkles or folds**—the paper should be flat.
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Why Is This Important?

- **Stability:** Prevents the paper from shifting
 - **Accuracy:** Ensures correct angles and lines
 - **Neatness:** Keeps your work professional
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2. Pencil Sharpening for Technical Drawing

Why Special Pencil Sharpening?

Technical drawing requires **thin, clean, precise lines**.

A **properly sharpened pencil** makes your work:

- **Clearer**
 - **Neater**
 - **Easier to read and understand**
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Grades of Pencils and Their Uses:

Pencil Grade Use

2H, 3H, 4H Light construction lines, guidelines

HB, H Medium lines, lettering

B, 2B Thick lines, shading

Sharpening Technique:

1. Use a **sharp blade or technical sharpener**.
 2. Cut the **wood casing gently** to expose about **10–15 mm of lead**.
 3. Use **sandpaper or fine abrasive paper** to sharpen the lead to:
 - A **chisel point** for **construction lines**
 - A **conical point** for **lettering or freehand sketching**
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Why Use a Chisel Point?

- Makes **thin, consistent lines**
 - Reduces **smudging**
 - Helps you draw **precise details**
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Safety Tips:

- Always **cut away from your body** when using a blade.
 - Keep the **sharp end protected** when not in use.
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3. Drawing Borders and Title Block

Borders

Borders give your drawing a **professional and organized look**. They also provide **space for notes, signatures, and marks**.

Standard Margins for Borders:

Edge of Sheet Margin Size (mm)

Top	10 mm
Bottom	20 mm

Edge of Sheet Margin Size (mm)

Left 20 mm

Right 10 mm

Steps to Draw Borders:

1. Use a **ruler or T-square** to mark the margins on all sides.
 2. Draw **light guide lines first**, then darken them neatly.
 3. Use an **H or 2H pencil** for light borders and **HB** for final borders.
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Title Block

A **title block** provides essential information about your drawing.

Position:

Bottom **right corner** of the drawing sheet.

Contents of a Title Block:

Field	Details to Fill
Title	Name of the drawing (e.g., "Front View of a Box")
Name	Student's name
Date	Date of the drawing
Scale	Drawing scale (e.g., 1:2)
Class	Class/department
Sheet Number	For record keeping (if applicable)

Size of Title Block:

Dimension Range

Length 140–180 mm

Height 40–60 mm

Why Is a Title Block Important?

- Identifies **who drew the work**
 - States **what the drawing represents**
 - Makes the drawing **easy to file, reference, or mark**
 - Provides **scale and date information**
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4. Importance of Good Board Practice

- **Accuracy:** Prevents mistakes in technical drawings
 - **Neatness:** Makes work presentable
 - **Standardization:** Ensures all students/professionals follow similar formats
 - **Professionalism:** Prepares students for **real-world engineering or architectural work**
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5. Summary of Key Points

Aspect	Purpose
Fixing the Drawing Sheet	Prevents movement, keeps sheet aligned
Sharpening Pencils Properly	Ensures clean, accurate lines
Drawing Borders	Gives the work a professional frame
Title Block	Provides details about the drawing