

CAREERS 360

PREPARATION **Series**

NID Studio Test

2025

Model Making

and Material Handling

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ABOUT THIS eBook

Dear **NID Aspirants**,

We are excited to share that we have created an eBook on preparation for students preparing for the Model-Making and Material Handling section for the **NID Studio Test 2025**. This comprehensive guide is designed to help you prepare through all aspects of the section, ensuring you are well-prepared to tackle every challenge with confidence.

What's inside this eBook?

- **NID Studio Test Pattern and Syllabus** - Detailed breakdown of the exam format and exam syllabus for better understanding of the exam.
- **Model-Making and Material Handling** - Detailed understanding of different components of the section with approach on how to handle questions from the sections.
- **Preparation Tips** - Important Strategies and Tips for tackling the Model-Making and Material Handling section for NID Studio Test.
- **Sample Questions** - with detailed solutions and approach to tackle them.
- **Other Useful Resources** - Additional resources such as resource books to aid your preparation.

Dive into your preparation with this guide and move confidently towards achieving your goal of excelling at the NID Studio Test.

All The Best!!!!

NID Studio Test Pattern and Syllabus

Candidates who have qualified the prelims can appear in the NID Mains exam. The Mains exam involves studio tests and personal interviews. Students are examined on their practical skills, problem-solving abilities, and creativity for the studio test. Personal interviews assess candidates' design viewpoints, motivations, and communication skills, offering a thorough assessment of their fit for the position.

Particulars	Details
Mode of exam	Offline
Total marks of NID DAT	100
Duration of Exam	3 hours
Mode of Language	English
Type of questions	Based on Sketching/Drawing/ Model Making

NID DAT MDes Mains Syllabus (Studio Test)

The key subjects covered in the [NID Mains syllabus for the DAT 2025](#), studio test are listed in the table below. This extensive list of subjects will be a useful tool for your preparation, assisting you in comprehending the scope and complexity of the material that must be studied.

Important Topics for NID Studio Test - M.Des		
Model Making	Doodling	How to evolve ideas
Audio – Visual Exercises	Material Manipulation	Creative Thinking

Model-Making and Material Handling

Model-Making: NID Studio Test includes questions from model-making to evaluate student's creativity, material handling, problem-solving skills, and execution speed. Different questions can be asked based on the different types of model making that includes: Theme- Based Model, Functional Product Design, Problem-Solving Challenge, Character, Abstract and Structure Stability Model.

Material Handling: Material Handling questions expose you to different materials from everyday life that we come across in our daily life, The questions are designed for a Model based objective fulfillment to a given Problem statement.

Materials usually Provided in the NID Studio Test

- Clay / M-Seal
- Cardboard, Paper, Foam Sheets
- Wire, Toothpicks, Ice-cream sticks
- Straws, Matchsticks
- Fabric, Thread, Rope
- Thermocol, Aluminum Foil
- Adhesives (Glue, Tape)
- Scissors, Cutter

Suggested Time Management	20-30 minutes
Approximate Weightage	30-35 %
Objective	To test the Material Based Problem Solving, Craftsmanship and Material Awareness

Materials Handling

It is important to first familiarize yourself with materials in the test and practice on them with different methods and techniques. Some commonly provided materials in the NID Studio Test include:

- Paper & Cardboard – Folding, cutting, rolling, layering.
- Wire & Thread – Bending, twisting, weaving, forming frames.
- Clay & M-Seal – Molding, sculpting, shaping.
- Foil & Thermocol – Carving, texturing, assembling.
- Matchsticks, Toothpicks, Ice-cream sticks – Creating frameworks, patterns.
- Fabric & Thread – Stitching, draping, texturing.
- Plastic Straws & Cups – Connecting, stacking, bending.
- Tapes and Glue – Bonding different materials effectively.

Model-Making Techniques

- **Paper & Cardboard**
Practice geometric shapes and organic curves with origami and paper folding.
Create interlocking structures with slot fitting and layering.
Curling and rolling are used to create curved and flowing shapes.
For sturdy and stable models, use box and cylinder construction.
- **Wire Manipulation**
Bending and twisting can be used to form persons, objects, or abstract artworks.
The Armature Framework is used to create model skeletons.
Intricate details can be added by weaving and interlacing.
- **Clay & M-Seal Modeling**
Create streamlined, elegant shapes using hand molding and sculpture.
Using instruments like combs and needles for texturing and detailing.
Clay and other materials are combined for attaching and layering.
- **Structure & Stability Testing**
Load-Bearing Models – Build towers, bridges, or structures that can hold small weights.
Balancing Techniques – Distribute weight efficiently.
Modular Construction – Using interlocking components.

Preparation Tips for NID Studio Test (Model-Making and Material Handling)

Understand the Problem Statement

It is one of the most common mistakes that students make when they don't give the question and problem statement enough time. Students should first go through and understand all the components of the problem thoroughly before starting with the solution.

Conceptualization

Coming up with new and innovative solutions will score you better marks in the studio test. It is tested in the NID Mains that how unique and original your ideas are. It is very important for students to use given materials well and creatively.

Material Handling

It is important for students to use the given materials efficiently and avoid unnecessary wastage. It is advised to keep a Model-Making Toolkit ready with basic tools like cutter, scissors, glue gun, ruler, wire cutter, etc.

Neatness and Time Management

Students should be able to provide a neat and clean model with smooth edges and no messy glue marks. Models should be well balanced and well-structured within the limited time given to them. It is tested how well students create models within the limitations of the time period.

Learn with Practice

Students can start their practice for the model making and material handling section by practicing and learning through videos and books. Students can refer and watch DIY Model-Making Videos on YouTube and also observe and analyze how everyday objects are made.

Sample Problems

One of the prominent ways to prepare for Model making and materials questions for NID Studio Test is through solving sample problems within the time limits. It not only prepares the students but also builds confidence.

Sample Questions

Ques: Which of the following objects is commonly made of Aluminium?



Options:

1. Ruler
2. Water Bottle
3. Can
4. Jar

Solution:

Option 3 (Can)

Aluminium is used in beverage cans because it is lightweight, rust-resistant, and recyclable.

Ques: Which of the following materials is the most appropriate for making eco-friendly sculptures for public parks that can withstand rain and sun while promoting sustainability?

Options:

5. Plaster of Paris (POP)
6. Recycled Metal
7. Plastic Fiberglass
8. Thermocol

Solution: Option B (Recycled Metal)

Recycled metal is durable, weather-resistant, and promotes sustainability by reusing materials instead of creating waste.

Durability & Weather Resistance

- Public park sculptures need to withstand harsh weather conditions (rain, sun, wind, and temperature changes).

- Recycled metal is rust-resistant (when treated properly), strong, and does not degrade easily over time.
- Other materials like Plaster of Paris (POP), thermocol, and fiberglass can break, chip, or degrade under outdoor conditions.

Sustainability & Eco-Friendliness

- Recycling metal reduces mining and energy consumption, making it environmentally friendly.
- Unlike plastic or thermocol, it does not contribute to microplastic pollution.
- Many public sculptures are created from repurposed scrap metal, reducing waste.

Ques: You are required to design a compact and portable study lamp that can be used by students in areas with limited electricity supply. Using the given materials, create a 3D model representing your idea.

Materials Provided:

- Cardboard
- Wire
- Paper
- Straws
- Tape & Glue
- Small LED or Paper Representation of Light Source

Approach:

- Start with a rough sketch before building the model.
- Use paper folding, slot fitting, and wire bending techniques for structure.
- Ensure the lamp is stable and lightweight.

Building the Model:

1. Base Construction

Cut a rectangular or circular piece of cardboard to create a sturdy base that will hold the lamp without toppling over.

2. Lamp Neck (Adjustable Feature)

Use wire to create a flexible, adjustable neck; cover the wire with straws for neatness and extra strength; if no wire is available, use folded paper tubes as a stiff yet flexible substitute.

3. Lampshade & Light Source

Make a lampshade out of cardboard or paper to direct light; attach the LED or Paper Light Source to represent the bulb; if paper is used, fold it into a conical or rectangular shape to create a shade.

4. Final Assembly

Attach the neck to the base and lampshade and make sure that all parts are securely fixed with tape/glue. Lastly, test the model for stability and adjustability.

Other Useful Resources

Aspiring students go through the following articles and eBooks for their NID preparation to make better study plans and score high.

[NID Preparation Books 2025, Best Books for NID Entrance Exam](#)

[NID DAT Study Material 2025: Best Books, Preparation Tips and Syllabus](#)

[How to Prepare for NID 2025 \(Mains & Prelims\): Check Preparation Strategy](#)

[NID DAT E-books and Sample Papers](#)

With Warm Regards
Best Wishes
Team Careers360