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## 1. BACKGROUND

### 1.1 Apprenticeship Training Scheme under Apprentice Act 1961

The Apprentices Act, 1961 was enacted with the objective of regulating the programme of training of apprentices in the industry by utilizing the facilities available therein for imparting on-the-job training. The Act makes it obligatory for employers in specified industries to engage apprentices in designated trades to impart Apprenticeship Training on the job in industry to school leavers and person having National Trade Certificate(ITI pass-outs) issued by National Council for Vocational Training (NCVT) to develop skilled manpower for the industry. There are four categories of apprentices namely; **trade apprentice, graduate, technician and technician (vocational) apprentices.**

Qualifications and period of apprenticeship training of **trade apprentices** vary from trade to trade. The apprenticeship training for trade apprentices consists of basic training followed by practical training. At the end of the training, the apprentices are required to appear in a trade test conducted by NCVT and those successful in the trade tests are awarded the National Apprenticeship Certificate.

The period of apprenticeship training for graduate (engineers), technician (diploma holders and technician (vocational) apprentices is one year. Certificates are awarded on completion of training by the Department of Education, Ministry of Human Resource Development.

### 1.2 Changes in Industrial Scenario

Recently we have seen huge changes in the Indian industry. The Indian Industry registered an impressive growth during the last decade and half. The number of industries in India have increased manifold in the last fifteen years especially in services and manufacturing sectors. It has been realized that India would become a prosperous and a modern state by raising skill levels, including by engaging a larger proportion of apprentices, will be critical to success; as will stronger collaboration between industry and the trainees to ensure the supply of skilled workforce and drive development through employment. Various initiatives to build up an adequate infrastructure for rapid industrialization and improve the industrial scenario in India have been taken.

### 1.3 Reformation

The Apprentices Act, 1961 has been amended and brought into effect from 22<sup>nd</sup> December, 2014 to make it more responsive to industry and youth. Key amendments are as given below:

- Prescription of number of apprentices to be engaged at establishment level instead of trade-wise.
- Establishment can also engage apprentices in optional trades which are not designated, with the discretion of entry level qualification and syllabus.
- Scope has been extended also to non-engineering occupations.
- Establishments have been permitted to outsource basic training in an institute of their choice.
- The burden of compliance on industry has been reduced significantly.

## 2. RATIONALE

(Need of Apprenticeship in Interior Design & Decoration)

Apprentices not only learn occupational skills in the classroom, their learning is expanded to include hands-on, paid, on-the-job training. Students learn and practice all phases of the trade/occupation in real-world applications.

The Apprenticeship system of training is unique in that it is the only formal, structured, and nationally recognized education and training program available that combines the two most common forms of career and occupational learning: classroom instruction with on-the-job training.

The Apprenticeship Programs train men and women to craftsman status. By participating in a program, apprenticeship training shape applicants with character, aptitude, motivation and good personality traits into competent Craftsmen and Craftswomen who have in-demand skill sets, comprehensive knowledge, positive attitudes and superior abilities.

- The Apprenticeship in Interior Design & Decoration provides trainees the practical Skills and knowledge required for Interior Designing.
- The trainees will be able to draw the Plan, Elevation and Views of interior designing.
- The trainees will be able to supervise the design decoration of the Interiors.
- The Trainees will be able to learn the high level of design Skills of Interiors for Residential & Commercial building.
- The Trainees will be able to develop his/her creativity, Practical skills, Organization Skills & management Skills.
- The Trainees will be able to do Computer Aided Design (CAD) .
- This apprenticeship covers all the main design areas, from graphics to product design of interiors
- The Trainees will be able to develop graphic and multimedia design in the media industry
- Through the apprenticeship the Trainees will be able to understand the construction-related industries including kitchen and bathroom design etc.
- Through the apprenticeship the trainees will have good knowledge of product, materials and architectural history
- Through the apprenticeship the trainees will have effective communication skills for working with suppliers, contractors and clients.
- The trainees can understand the ability to find practical solutions to various interior related problems.
- The trainees ability to working out costs and to design the different types of furniture , wall design treatments, flooring materials

### 3. JOB ROLES: REFERENCE NCO

#### Brief description of Job roles:

- Interior designers work closely with architects, structural engineers, mechanical engineers, and builders, to determine how interior spaces will function, look, and be furnished. Interior designers read blueprints and will be aware of building codes and inspection regulations.
- Interior designer can design sketches or drawings by freehand or computer-aided design (CAD) software.
- Interior designers specialize in a particular type of building (home, hospital, or hotel), a specific room (bathroom or kitchen), or a specific style. Interior designers work for home furnishings stores, providing design services to help customers choose materials and furnishings.
- Interior designers designs floor plans, electrical layouts, and plans needed for building permits. Interior designers draft the preliminary design into documents that could be as simple as sketches or as inclusive as construction documents, with schedules and attachments.
- Interior Designer visit after the project to ensure that the client is satisfied.
- Interior designers Prepare the estimate and costing of interior materials which is used in Residential and Commercial projects.
- Interior designer designs false ceiling, product Design & Paneling for interior.
- Interior design the showroom, residential & commercial building interior layouts and details.
- Interior designer can also work in tile industry for flooring Designs
- Interior designer can work in landscaping firm.
- Interior designer deal with fabrics, curtains & pelmets.
- Interior designer work in furniture show rooms for designing the furniture.

#### 4. GENERAL INFORMATION

1. **Name of the Trade** : Interior Designer & Decorator
2. **N.C.O. Code No.** : 3471.10
3. **Duration of Apprenticeship Training (Basic Training + Practical Training):** 2years
4. **Duration of Basic Training:** -
  - a) Block –I : 3 months
  - b) Block – II : 3 months

**Total duration of Basic Training: 6 months**
5. **Duration of Practical Training (On -job Training):** -
  - a) Block–I: 9 months
  - b) Block–II : 9 months

**Total duration of Practical Training: 18 months**
6. **Entry Qualification** : Passed 10<sup>th</sup> Class examination under 10+2 System of of education or its equivalent
7. **Selection of Apprentices:** The apprentices will be selected as per Apprentices Act amended time to time.
8. **Rebate for ITI passed trainees:** - **One Year** for those who have passed Interior Design & Decoration trade under CTS

*Note: Industry may impart training as per above time schedule for different block, however this is not fixed. The industry may adjust the duration of training considering the fact that all the components under the syllabus must be covered. However the flexibility should be given keeping in view that no safety aspects is compromised.*

## 5. COURSE STRUCTURE

Training duration details: -

<b>Time (in months)</b>	<b>1-3</b>	<b>4-12</b>	<b>13-15</b>	<b>16-24</b>
<b>Basic Training</b>	<b>Block- I</b>	<b>-----</b>	<b>Block – II</b>	<b>-----</b>
<b>Practical Training (On - job training)</b>	<b>----</b>	<b>Block – I</b>	<b>-----</b>	<b>Block – II</b>



Components of Training ↓	Duration of Training in Months →																									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Basic Training Block - I	█	█	█																							
Practical Training Block - I				█	█	█	█	█	█	█	█	█														
Basic Training Block - II													█	█	█											
Practical Training Block - II																█	█	█	█	█	█	█	█	█	█	█

**6. SYLLABUS**  
**6.1 BASIC TRAINING**  
**(BLOCK – I & II)**  
**DURATION: 06 MONTHS**

**GENERAL INFORMATION**

- 1) **Name of the Trade** : **Interior Design & Decoration**
- 2) **Hours of Instruction** : 1000 Hrs. (500 hrs. in each block)
- 3) **Batch size** : 20
- 4) **Power Norms** : 10 KW
- 5) **Space Norms** : 60 Sq.m.
- 6) **Examination** : The internal assessment will be held on completion of each Block.
- 7) **Instructor Qualification** :

i) Degree/Diploma in Interior Designing Eng. From recognized university/Board with one/two year post qualification experience respectively in the relevant field.

**OR**

ii) NTC/NAC in the trade of Interior Design with three year post qualification experience in the relevant field.

Preference will be given to a candidate with Craft Instructor Certificate (CIC)

- 8) **Tools, Equipments & Machinery required** : - As per Annexure – I

**6.1.1 DETAIL SYLLABUS OF CORE SKILL**

**A. Block– I**  
**Basic Training**

Topic No.	b) Workshop Science & Calculation	Duration (in hours)
1	Multiplication & division – common fraction, subtraction, multiplication & division.	<b>20</b>
2	Units- different system and conversion of scales. Properties of metal which are used in the interior designing	
3	Calculate volume of rectangular block, cubical block, cylinder, cone, sphere, pyramid .	
4	Definition of mass, weight density and their units. Difference between mass & weight.	
5	Problems on height and distance.	

**B. Block- II**  
**Basic Training**

<b>Topic No.</b>	<b>b) Workshop Science &amp; Calculation</b>	<b>Duration (in hours)</b>
1	Solving problems of percentage, ratio and proportions.	<b>20</b>
2	Heat Treatment process of metals and its definitions. Types of curtains with specification	
3	Definition, difference and unit of heat and temperature.	
4	Estimation of furniture with specification.	

## 6.1.2 DETAIL SYLLABUS OF PROFESSIONAL SKILLS & PROFESSIONAL KNOWLEDGE

### A. Block –I

#### Basic Training

Week No.	Professional Knowledge (305 Hrs.)	Professional Practical (120 Hrs.)
1	Importance of safety and general precaution observed in the trade. Importance of the trade in the development of industrial economy of the country.	Familiarization with the institute. Importance of trade training. Instrument used in the trade. Type of work done/jobs by the trainees in the institute.
2	<b>Introduction of Interior Design</b>  Drawing instruments, equipment's and materials their used, care and maintenance. Introduction to Indian standard institution.	Identifying of drawing instruments layout of drawing sheets by doing small exercises in interior  Use of drawing instruments Tee square/ MD and drawing boards printing of letters and numbers.
3	<b>Colors</b>  Primary ,Secondary & Tertiary Color	Graphics used for interior. Graphics symbols for Door, windows and furniture of different material.
4	<b>Graphics &amp; Anthropometric</b>  Rendering, Symbols & Designing of Interior. Standard sizes & Height for various interior designs like ( Kitchen, toilet ,Bed Room ,Living Room Dinning etc.	Making detail drawing of different types of Carpentry joints.
5 to 6	<b>Bricks / Stone / R.C.C</b> Definition of Foundation, Damp Proof Course.	Detail of wall footing, R.C.C footing.  Types of bricks, & bonds,
7	<b>Doors / Windows</b>  Types of doors, windows and ventilators with uses.	Drawing of different types of doors, windows and ventilators
8	<b>Lintel and Arches use in interior</b>  Different types of lintel and arches.	<b>Details of Lintel and Arches</b>  Drawing of different types of lintel and arches.
9 to 10	<b>Types of Staircases</b>  Types of staircases.	Preparing drawings of details of parts of wooden stair including handrail design. Types of staircase straight, open newel, dog legged, geometrical, bifurcated and spiral Plans & Ele.

11 to 12	<p><b>Principle of perspective</b></p> <p>Principal of isometric view &amp; perspective view of furniture which is used in interiors</p>	<p><b>Functional design</b></p> <p>How to make Design – Flow of Circulation chart , bubble diagram programming, planning and designing of spaces with furniture layout, basic layout of furniture space planning and layout,</p>
13.	<p><b>Revision</b></p> <p><b>Internal Assessment 03days</b></p>	

**B. Block –II**  
**Basic Training**

<b>Week No.</b>	<b>Professional Knowledge (305 Hrs.)</b>	<b>Professional Practical (120 Hrs.)</b>
1 to 2	<p><b>False Ceiling &amp; Partition</b></p> <p>Materials used for false ceiling.  Types of partition wall- wooden, glass.</p> <p>Materials used for Partition.</p>	<p><b>False Ceiling &amp; Partition</b></p> <p>Making drawing of false ceiling and Partition of low height.</p>
3	<p><b>Flooring &amp; Paneling</b></p> <p>Types of floor finishing- method of constructing, mosaic, brick tiled etc. used in floors.</p>	<p><b>Flooring &amp; Paneling</b></p> <p>Drawing details –tiled, timber, pattern, stone, mosaic, glass, carpets.</p> <p>Details of wooden Panelling</p>
4	<p><b>Paints &amp; Polishing</b></p> <p>Polishes - method of preparation- different types classification and their application on woods.</p>	<p><b>Paints &amp; Polishing</b></p> <p>Design the Painting of walls, ceiling with color, Design the painting of doors and windows</p>
5 to 7	<p><b>Plumbing</b></p> <p>Water supply pipe lines house drainage, sanitary fittings</p> <p><b>Lighting</b></p> <p>Types and system of lighting. Safety precautions.</p> <p><b>Air conditioner</b></p> <p>Types of air Conditioning</p>	<p><b>Interior services :</b></p> <p>Planning of plumbing.</p> <p>Preparation of drawing showing various pipe joints for underground drainage, method of sanitary fittings in buildings, manholes, septic tanks etc.</p> <p><b>Lighting</b></p> <p>Types of Lighting system in different spaces of interiors</p> <p>NOTE:- necessary practical training will be carried out on site.</p>

8 to 10	<p><b>Planning of Residential interior</b></p> <p>Residential Project – planning of residential building in small scale.</p> <p>Estimate and costing of different types of material</p>	<p><b>Plan Layout</b></p> <p>Introduction of Residential project – detail layout plan, elevations, one point perspective and two point perspective like Bed Room ,Drawing Room ,Kitchen , Bathroom &amp; Staircase</p>
11	<p><b>Fabrics:</b> Types of curtains , Pelmet with specifications</p>	<p><b>Fabrics:</b> Practice Types of curtains , Pelmet</p>
12	<p><b>Preliminary Drawing in CAD</b></p> <p>i) CAD commands and use of different menus</p>	<p><b>CAD training-</b></p> <p>Drawing practice on CAD software.</p>
13.		
<b>Internal Assessment 03 days</b>		



### **6.1.3 EMPLOYABILITY SKILLS**

#### **GENERAL INFORMATION**

- 1) **Name of the subject** : **EMPLOYABILITY SKILLS**
- 2) **Applicability** : **ATS- Mandatory for fresher only**
- 3) **Hours of Instruction** : **110 Hrs. (55 hrs. in each block)**
- 4) **Examination** : **The examination will be held at the end of two years Training by NCVT.**
- 5) **Instructor Qualification** :

**i) MBA/BBA with two years experience or graduate in sociology/social welfare/Economics with two years experience and trained in Employability skill from DGET Institute.**

**And**

**Must have studied in English/Communication Skill and Basic Computer at 12<sup>th</sup> /diploma level**

**OR**

**ii) Existing Social Study Instructor duly trained in Employability Skill from DGET Institute.**

### 6.1.3.1 SYLLABUS OF EMPLOYABILITY SKILLS

#### A. Block – I Basic Training

Topic No.	Topic	Duration (in hours)
	<b>English Literacy</b>	<b>15</b>
<b>1</b>	<b>Pronunciation :</b> Accentuation (mode of pronunciation) on simple words, Diction (use of word and speech)	
<b>2</b>	<b>Functional Grammar</b> Transformation of sentences, Voice change, Change of tense, Spellings.	
<b>3</b>	<b>Reading</b> Reading and understanding simple sentences about self, work and environment	
<b>4</b>	<b>Writing</b> Construction of simple sentences Writing simple English	
<b>5</b>	<b>Speaking / Spoken English</b> Speaking with preparation on self, on family, on friends/ classmates, on know, picture reading gain confidence through role-playing and discussions on current happening job description, asking about someone's job habitual actions. Cardinal (fundamental) numbers ordinal numbers. Taking messages, passing messages on and filling in message forms Greeting and introductions office hospitality, Resumes or curriculum vita essential parts, letters of application reference to previous communication.	
	<b>I.T. Literacy</b>	<b>15</b>
<b>1</b>	<b>Basics of Computer</b> Introduction, Computer and its applications, Hardware and peripherals, Switching on-Starting and shutting down of computer.	
<b>2</b>	<b>Computer Operating System</b> Basics of Operating System, WINDOWS, The user interface of Windows OS, Create, Copy, Move and delete Files and Folders, Use of External memory like pen drive, CD, DVD etc, Use of Common applications.	
<b>3</b>	<b>Word processing and Worksheet</b> Basic operating of Word Processing, Creating, opening and closing Documents, use of shortcuts, Creating and Editing of Text, Formatting the Text, Insertion & creation of Tables. Printing document. Basics of Excel worksheet, understanding basic commands, creating simple worksheets, understanding sample worksheets, use of simple formulas and functions, Printing of simple excel sheets	
<b>4</b>	<b>Computer Networking and INTERNET</b> Basic of computer Networks (using real life examples), Definitions of Local Area Network (LAN), Wide Area Network (WAN), Internet, Concept of Internet (Network of Networks),	

	<p>Meaning of World Wide Web (WWW), Web Browser, Web Site, Web page and Search Engines. Accessing the Internet using Web Browser, Downloading and Printing Web Pages, Opening an email account and use of email. Social media sites and its implication.</p> <p>Information Security and antivirus tools, Do's and Don'ts in Information Security, Awareness of IT - ACT, types of cyber crimes.</p>	
	<b>Communication Skill</b>	<b>25</b>
<b>1</b>	<p><b>Introduction to Communication Skills</b>  Communication and its importance  Principles of Effective communication  Types of communication - verbal, non verbal, written, email, talking on phone.  Non verbal communication -characteristics, components-Para-language  Body - language  Barriers to communication and dealing with barriers.  Handling nervousness/ discomfort.  Case study/Exercise</p>	
<b>2</b>	<p><b>Listening Skills</b>  Listening-hearing and listening, effective listening, barriers to effective listening guidelines for effective listening.  Triple- A Listening - Attitude, Attention &amp; Adjustment.  Active Listening Skills.</p>	
<b>3</b>	<p><b>Motivational Training</b>  Characteristics Essential to Achieving Success  The Power of Positive Attitude  Self awareness  Importance of Commitment  Ethics and Values  Ways to Motivate Oneself  Personal Goal setting and Employability Planning.  Case study/Exercise</p>	
<b>4</b>	<p><b>Facing Interviews</b>  Manners, Etiquettes, Dress code for an interview  Do's &amp; Don'ts for an interview</p>	
<b>5</b>	<p><b>Behavioral Skills</b>  Organizational Behavior  Problem Solving  Confidence Building  Attitude  Decision making  Case study/Exercise</p>	

**B. Block– II**  
**Basic Training**

<b>Topic No.</b>	<b>Topic</b>	<b>Duration (in hours)</b>
	<b>Entrepreneurship skill</b>	<b>10</b>
1	<b>Concept of Entrepreneurship</b> <b>Entrepreneurship-</b> Entrepreneurship - Enterprises:-Conceptual issue Entrepreneurship vs. Management, Entrepreneurial motivation. Performance & Record, Role & Function of entrepreneurs in relation to the enterprise & relation to the economy, Source of business ideas, Entrepreneurial opportunities, The process of setting up a business.	
2	<b>Project Preparation &amp; Marketing analysis</b> Qualities of a good Entrepreneur, SWOT and Risk Analysis. Concept & application of Product Life Cycle (PLC), Sales & distribution Management. Different Between Small Scale & Large Scale Business, Market Survey, Method of marketing, Publicity and advertisement, Marketing Mix.	
3	<b>Institutions Support</b> Preparation of Project. Role of Various Schemes and Institutes for self-employment i.e. DIC, SIDA, SISI, NSIC, SIDO, Idea for financing/ non financing support agencies to familiarizes with the Policies /Programs & procedure & the available scheme.	
4	<b>Investment Procurement</b> Project formation, Feasibility, Legal formalities i.e., Shop Act, Estimation & Costing, Investment procedure - Loan procurement - Banking Processes.	
	<b>Productivity</b>	<b>10</b>
1	<b>Productivity</b> Definition, Necessity, Meaning of GDP.	
2	<b>Affecting Factors</b> Skills, Working Aids, Automation, Environment, Motivation How improves or slows down.	
3	<b>Comparison with developed countries</b> Comparative productivity in developed countries (viz. Germany, Japan and Australia) in selected industries e.g. Manufacturing, Steel, Mining, Construction etc. Living standards of those countries, wages.	
4	<b>Personal Finance Management</b> Banking processes, Handling ATM, KYC registration, safe cash handling, Personal risk and Insurance.	
	<b>Occupational Safety, Health &amp; Environment Education</b>	<b>10</b>
1	<b>Safety &amp; Health</b> Introduction to Occupational Safety and Health importance of safety and health at workplace.	

2	<b>Occupational Hazards</b> Basic Hazards, Chemical Hazards, Vibro-acoustic Hazards, Mechanical Hazards, Electrical Hazards, Thermal Hazards. Occupational health, Occupational hygienic, Occupational Diseases/ Disorders & its prevention.	
3	<b>Accident &amp; safety</b> Basic principles for protective equipment. Accident Prevention techniques - control of accidents and safety measures.	
4	<b>First Aid</b> Care of injured & Sick at the workplaces, First-Aid & Transportation of sick person	
5	<b>Basic Provisions</b> Idea of basic provision legislation of India. of safety, health, welfare under legislation of India.	
6	<b>Ecosystem</b> Introduction to Environment. Relationship between Society and Environment, Ecosystem and Factors causing imbalance.	
7	<b>Pollution</b> Pollution and pollutants including liquid, gaseous, solid and hazardous waste.	
8	<b>Energy Conservation</b> Conservation of Energy, re-use and recycle.	
9	<b>Global warming</b> Global warming, climate change and Ozone layer depletion.	
10	<b>Ground Water</b> Hydrological cycle, ground and surface water, Conservation and Harvesting of water	
11	<b>Environment</b> Right attitude towards environment, Maintenance of in -house environment	
	<b>Labour Welfare Legislation</b>	<b>5</b>
1	<b>Welfare Acts</b> Benefits guaranteed under various acts- Factories Act, Apprenticeship Act, Employees State Insurance Act (ESI), Payment Wages Act, Employees Provident Fund Act, The Workmen's compensation Act.	
	<b>Quality Tools</b>	<b>5</b>
1	<b>Quality Consciousness :</b> Meaning of quality, Quality Characteristic	
2	<b>Quality Circles :</b> Definition, Advantage of small group activity, objectives of quality Circle, Roles and function of Quality Circles in Organization, Operation of Quality circle. Approaches to starting Quality Circles, Steps for continuation Quality Circles.	
3	<b>Quality Management System :</b> Idea of ISO 9000 and BIS systems and its importance in maintaining qualities.	
4	<b>House Keeping :</b> Purpose of Housekeeping, Practice of good Housekeeping.	
5	<b>Quality Tools</b> Basic quality tools with a few examples	
	<b>Leadership and Team Building skills.</b>	<b>5</b>
	Leadership	

	Discipline and Morale Team Work Case Study/ Exercise	
	<b>Meet the Mentor Role - play as a Supervisor</b>	<b>5</b>
	<b>Organizing and Planning.</b>	<b>5</b>
	Time Management Group Dynamics Case Study/ Exercise	

**6.2 PRACTICAL TRAINING (ON-JOB TRAINING)**  
**(BLOCK – I & II)**  
**DURATION: 18 MONTHS (9 months in each block)**

**GENERAL INFORMATION**

- 1) **Name of the Trade** : **Interior Design & Decoration**
- 2) **Duration of On-Job Training** : As per Apprenticeship Act amended time to time.
- 3) **Batch size** :20
- 4) **Examination** : i) The internal assessment will be held on completion of each block  
ii) NCVT exam will be conducted at the end of 2<sup>nd</sup> year.
- 5) **Instructor Qualification** :

i) Degree/Diploma in **INERIOR DESIGN & DECORATION** Egg. from recognized university/Board With one/two year post qualification experience in the relevant field.

**OR**

ii) NTC/NAC in the trade of **INERIOR DESIGN & DECORATION** with three year post qualification experience in the relevant field.  
Preference will be given to a candidate with Craft Instructor Certificate (CIC)

- 6) **Tools, Equipments & Machinery required** : - As per Annexure – II

**6.2.1 BROAD SKILL COMPONENT TO BE COVERED DURING ON- JOB TRAINING**

**A. BLOCK – I**

1. Instruction in safety precaution on the shop floor.

2. Free hand sketching of geometrical figure furniture and door Design, Window design.
3. Solving simple problem on projecting of point's lines surfaces and solids.
4. Theories of colors for various color scheme.
5. Draw different types of arches & lintels.
6. Sketches from models Plan Section & Elevation of furniture.
7. Draw Plan Sections & Elevation of Residential building single and Double storied with sketches and line diagram.
8. Draw design of furniture like sofa, bed, TV unit's dining table office furniture etc.
9. Perspective views of interiors including coloring practice and Shading.
10. Work on pelmet and types of door window details.
11. Make Drawings of flooring Patterns.
12. Isometric view of interiors like Kitchen, Drawing, and Dinning & Bathrooms
13. Solve all the problem of Staircase types & Calculation and draw complete details including handrails
14. Design Residential Building rooms' services and utilities ex- kitchen, toilet etc.
15. Draw interior layout for various purposes (living, dining, drawing, bed rooms).
16. Familiarization of product Design which is used in interiors.
17. Have Through Knowledge Indoor Plants in which is used in interiors.

## **B. BLOCK –II**

1. Design lighting plan with the help of tracing sheet.
2. Design of various false ceiling, flooring, partition & Paneling etc.
3. Knowledge of varnishes, polishing, painting classification and uses.
4. Prepare working drawing of various drawings and sanitary proposal Connected with building.
5. To Operate Computer and able to draw various drawing using Autocad.



- 6.** Prepare estimate of for all types of Residential Building.
- 7.** Prepare working drawings of Commercial building.
- 8.** Learn the standard office procedure drawings.
- 9.** Familiarization of different types of furniture.
- 10.** Familiarization of materials which is used in Residential Buildings.
- 11.** Knowledge of different types of floorings, walls, ceilings materials.
- 12.** Learn to do market survey of materials.
- 13.** Draw commercial building plumbing electrical fittings etc.
- 14.** Prepare working drawing of different types building by AutoCAD.
- 15.** Space planning selecting space programming circulation and design.
- 16.** Case Study of hotels and corporate interiors.
- 17.** Visit the historical Residential, hotels, Commercial Places.
- 18.** Design the display portion ex. Window and island display.
- 19.** Learn how to deals with the customers.
- 20.** Knowledge of printout drawings of all types of sizes A1 A2 A3 A4.

## 7. ASSESSMENT STANDARD

### 7.1 Assessment Guideline:

Appropriate arrangements should be made to ensure that there will be no artificial barriers to assessment. The nature of special needs should be taken into account while undertaking assessment. Due consideration to be given while assessing for team work, avoidance/reduction of scrape/wastage and disposal of scarp/wastage as per procedure, behavioral attitude and regularity in training.

The following marking pattern to be adopted while assessing:

**a)** Weightage in the range of 60-75% to be allotted during assessment under following performance level:

For this grade, the candidate with occasional guidance and showing due regard for safety procedures and practices, has produced work which demonstrates attainment of an acceptable standard of craftsmanship.

In this work there is evidence of:

- good skill levels in the use of hand tools, machine tools and workshop equipment
- Many tolerances while undertaking different work are in line with those demanded by the component/job.
- a fairly good level of neatness and consistency in the finish
- Occasional support in completing the project/job.

**b)** Weightage in the range of above75%- 90% to be allotted during assessment under following performance level:

For this grade, the candidate, with little guidance and showing due regard for safety procedures and practices, has produced work which demonstrates attainment of a reasonable standard of craftsmanship.

In this work there is evidence of:

- good skill levels in the use of hand tools, machine tools and workshop equipment
- the majority of tolerances while undertaking different work are in line with those demanded by the component/job.
- a good level of neatness and consistency in the finish
- little support in completing the project/job

c) Weightage in the range of above 90% to be allotted during assessment under following performance level:

For performance in this grade, the candidate, with minimal or no support in organization and execution and with due regard for safety procedures and practices, has produced work which demonstrates attainment of a high standard of craftsmanship.

In this work there is evidence of:

- high skill levels in the use of hand tools, machine tools and workshop equipment
- Tolerances while undertaking different work being substantially in line with those demanded by the component/job.
- A high level of neatness and consistency in the finish.
- minimal or no support in completing the project

### 7.2 FINAL ASSESSMENT- ALL INDIA TRADE TEST (SUMMATIVE ASSESSMENT)

	SUBJECTS	Marks	Internal assessment based on competency	Full Marks	Pass Marks	Duration of Exam.
<b>Block – I &amp; II</b>	<b>Block – I</b>					
	Professional Skill	300	100	400	240	<b>08 hrs.</b>
	Professional Knowledge	100	20	120	48	3 hrs.
	Workshop Cal. & Sc.	50	10	60	24	3 hrs.
	Engineering Drawing	50	20	70	28	4 hrs.
	Employability Skill	50		50	17	2 hrs.
	<b>Grand Total</b>	<b>550</b>	<b>150</b>	<b>700</b>	<b>-</b>	

**Marks Distribution**

TOTAL: 700 marks for I & II Blocks Pass marks

Note: - The candidate pass in each subject conducted under all India trade test.

## 8. FURTHER LEARNING PATHWAYS

- On successful completion of the course trainees can opt for Diploma course (Lateral entry).
- On successful completion of the course trainees can opt for CITS course.

### **Employment opportunities:**

On successful completion of this course, the candidates shall be gainfully Employed in the following industries:

1. Architects / Structural Engineering offices.
2. Product Design Offices
3. Kitchen & Toilet showrooms
4. Tiling Showrooms.
5. Fabric Showrooms.
6. in govt. Sectors as Instructor & as draftsmen
7. Self-Employment
8. Free Lancing

## 9. LIST OF EXPERT MEMBERS

Coordinator for the course: Ms. Anu Pandey

Sl. No.	Name & Designation Sh/Mr./Ms.	Organization	Expert Group Designation
1.	Mrs. Lalita Pali ( lecturer)	Meerabai Institute of Technology	HOD ( Retired)
2.	Mrs. Arti suri	Freelancing	Interior Designer
3.	Mrs. Kavitha Shanker( Vocational Instructor)	NVTI Noida	Artichect
4.	Mr. Satish Kumar( Vocational Instructor)	NVTI Noida	Artichect
5.	Mr. Rakesh Limbha	Limbha & Associates	Proprietor
6.	Mr. Sachin Kharbanda	Divine Interior	Proprietor
7.	Mrs. Harichanda Pal ( Vocational Instructor	Panipat RVTI	Interior Designer
8.	Mr. Dinesh Dutt	Limbha & Associates	Artichect
9.	Mr. Brijesh Kumar	Asid consultants	Interior Designer
10.	Mrs. Neha Jain	YWCA Connaught place	Interior Designer

**TOOLS & EQUIPMENT FOR BASIC TRAINING****INFRASTRUCTURE FOR PROFESSIONAL SKILL & PROFESSIONAL KNOWLEDGE****TRADE: INTERIOR DESIGN & DECORATION****LIST OF TOOLS & EQUIPMENTS FOR 20 APPRENTICES****A : TRAINEES TOOL KIT:-**

<b>SNo.</b>	<b>Name of the Item</b>	<b>Quantity</b>
1.	Modular writing pad chairs with adjustable pad for theory class room	**22 No.
2.	Drawing Boards measuring 1250mm x900mm fixed over adjustable stand	**20+1Sets
2.	Draughtsman stool with back ( revolving type)	**22 No.
3.	Students Lockers – with 8 compartments	3 No.
4.	Wooden Chest of Drawers	4 No.
5.	Steel book case ( with lockable glass shutters)	1 No.
6.	Instructor's table with glass top	2 No.
7.	Revolving Chair for Class room	2 No.
8.	Instructor's revolving with arm chair	2 No.
9.	Visitor's revolving chair	2 No.
10.	Steel Almirah	2 No.
11.	Magnetic White Board with felt board & accessories	2 Nos.
12.	Pin-up board (with or without stand)	4 No.
13.	Working table size 1250x950	2nos
14.	Tracing Table with Plain glass 1250x900	1 no
15.	Air conditioner 2.0 tons (split unit) for theory and practical room	4 nos.

16.	Claw hammer	5 Nos.
17.	Spirit level 30 cm.	5 Nos.
18.	Metallic tape 30 meter long	2 Nos.
19.	Display board covered with glass or acyclic sheet	2 Nos.
20.	Green board	1 No.
21.	Lux meter ( to measure light)	
22.	Environmental multi meter ( to measure temperature, humidity, air velocity)	

#### Furniture for CAD Lab

S No.	Name of the Item	Quantity
1.	Personal Computer with LCD monitor & DVD re-writer along with Latest compatible OS	**20 No.
2.	Notebook PC	2 No.
3.	Drafting Software like AutoCAD, or equiv.	**20 No.
4.	3D modeling software like Max, Revit etc.	**20 No.
5.	Anti-Virus Software	As required
6.	Other software's – CORAL, PHOTOSHOP etc.	As required
7.	Steel admiral small size	2Nos.
8.	Plotter ( A0 size)	1 No.
9.	Laser Jet color printer (A3 size)	1 No.
10.	Inkjet/ Laser Jet Printer (A4 size)	1 No.
11.	Color Scanner/printer with Latest Configuration (A3 size)	1 No.
12.	UPS on line	1 No.
13.	Computer work station ( module type)	**20 Nos.
14.	Printer Table ( module type)	2 No.
15.	Operator's revolving chair	22 No.



16.	Instructor 's Lab table	1 No.
17.	Instructor's revolving chair with arm	3 No.
18.	Book shelf with glass shutters	1 No.
19.	Air conditioner 2.0 tons (split type) for CAD lab	2 No.
20.	LAN connectivity	As per requirement
21.	Internet connection Wi – Fi	1 No.
22.	Visualizer with accessories	1 No.
23.	Vacuum Cleaner	1 No.
24.	Fire Extinguisher	1 No.
25.	Cabinet with drawer	2 Nos.
26.	Shoe rack	
27.	Wall clock	3 Nos.

**ANNEXURE – II**

**TOOLS & EQUIPMENT FOR ON-JOB TRAINING**

**INFRASTRUCTURE FOR PROFESSIONAL SKILLS & PROFESSIONAL KNOWLEDGE**

## **TRADE: INTERIOR DESIGN & DECORATION**

### **For Batch of 20 APPRENTICES**

Actual training will depend on the existing facilities available in the establishment. However, the industry should ensure that the broad skills defined against On-Job–Training part (i.e. 9 months + 9 months) are imparted. In case of any short fall the concerned industry may impart the training in cluster mode / in any other industry / at ITI.

**GUIDELINES FOR INSTRUCTORS AND PAPER SETTERS**

1. Due care to be taken for proper & inclusive delivery among the batch. Some of the following some method of delivery may be adopted:

- A) LECTURE
- B) LESSON
- C) DEMONSTRATION
- D) PRACTICE
- E) GROUP DISCUSSION
- F) DISCUSSION WITH PEER GROUP
- G) PROJECT WORK
- H) INDUSTRIAL VISIT

2. Maximum utilization of latest form of training viz., audio visual aids, integration of IT, etc. may be adopted.

3. The total hours to be devoted against each topic may be decided with due diligence to safety & with prioritizing transfer of required skills.