

INTERIOR DESIGNER & DECORATOR

COMPETENCY BASED CURRICULUM

(Duration: 2 Yrs.)

APPRENTICESHIP TRAINING SCHEME (ATS)

NSQF LEVEL- 5



India
काशल भारत - कुशल भारत

SECTOR – CONSTRUCTION



GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP
DIRECTORATE GENERAL OF TRAINING

INTERIOR DESIGNER & DECORATOR

(Revised in 2018)

APPRENTICESHIP TRAINING SCHEME (ATS)



NSQF LEVEL - 5

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Developed By

Ministry of Skill Development and Entrepreneurship
Directorate General of Training
CENTRAL STAFF TRAINING AND RESEARCH INSTITUTE
EN-81, Sector-V, Salt Lake City,
Kolkata – 700 091

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Sl. No.	Name & Designation Shri/Mr./Ms.	Organization	Mentor Council Designation
Expert group on restructuring of Apprenticeship Training Modules			
1.	Mrs. Hari Chanda Pal	NVTI , NOIDA	V.I. , I.D.D
2.	Mrs. Lalita Pali (lecturer)	Meerabai Institute of Technology	HOD (Retired)
3.	Mrs. Arti suri	Freelancing	Interior Designer
4.	Mrs. Kavitha Shanker (vocational Instructor)	NVTI Noida	Articheckt
5.	Mr. Satish Kumar (Vocational Instructor)	NVTI Noida	Articheckt
6.	Mr. Rakesh Limbha	Limbha & Associates	Proprietor
7.	Mr. Sachin Kharbanda	Divine Interior	Proprietor
8.	Mr. Dinesh Dutt	Limbha & Associates	Articheckt
9.	Mr. Brijesh Kumar	Asid consultants	Interior Designer
10.	Mrs. Neha Jain	YWCA Connaught place	Interior Designer

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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 22nd 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.
- Establishments have been permitted to outsource basic training in an institute of their choice.
- The burden of compliance on industry has been reduced significantly.



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2.1 GENERAL

Directorate General of Training (DGT) under Ministry of Skill Development & Entrepreneurship offers range of vocational training courses catering to the need of different sectors of economy/ Labour market. The vocational training programmes are delivered under aegis of National Council of Vocational Training (NCVT). Craftsman Training Scheme (CTS) and Apprenticeship Training Scheme (ATS) are two pioneer programmes of NCVT for propagating vocational training.

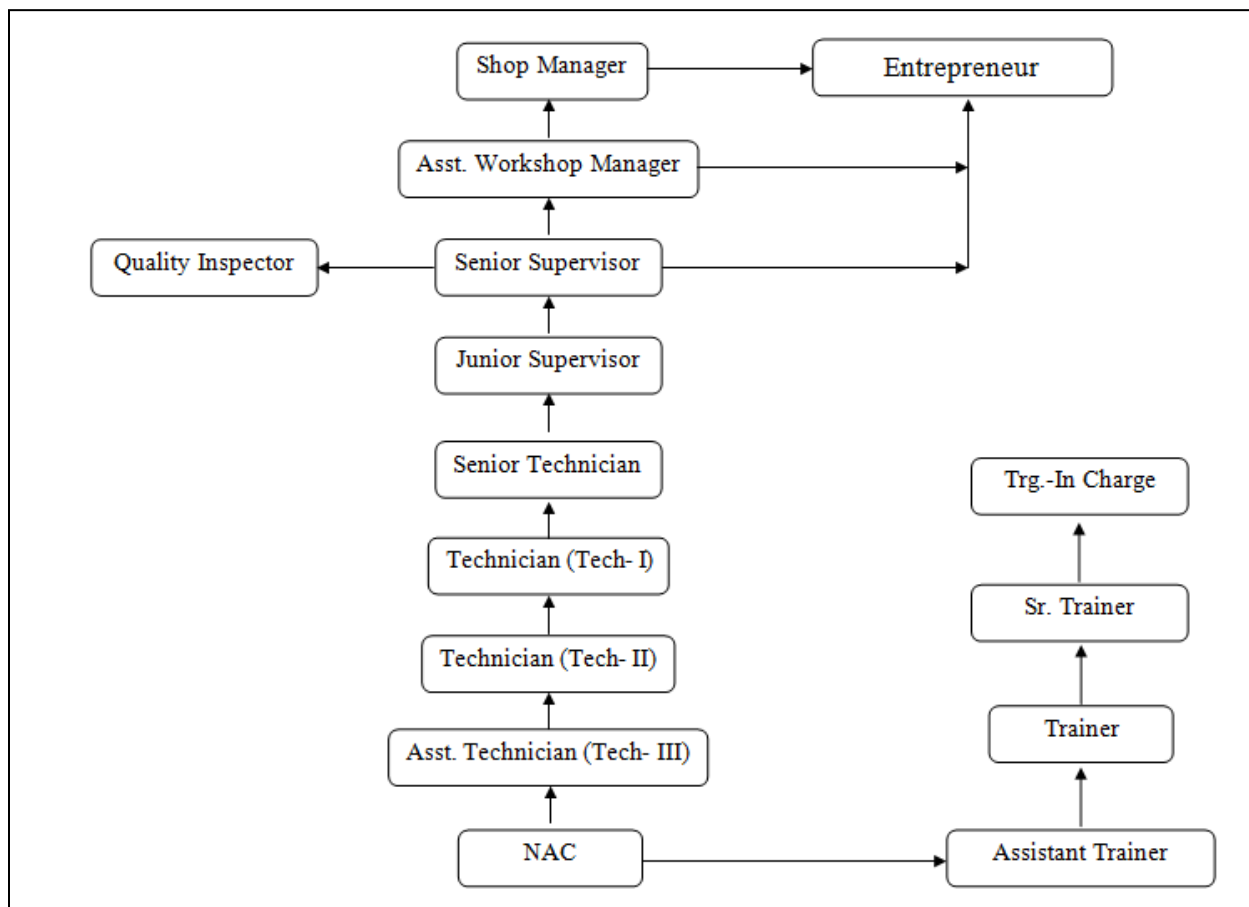
Interior Designer & Decorator trade under ATS is one of the most popular courses delivered nationwide through different industries. The course is of two years (02 Blocks) duration. It mainly consists of Domain area and Core area. In the Domain area Trade Theory & Practical impart professional - skills and knowledge, while Core area - Workshop Calculation and science and Employability Skills imparts requisite core skills & knowledge and life skills. After passing out the training programme, the trainee is being awarded National Apprenticeship Certificate (NAC) by NCVT having worldwide recognition.

Broadly candidates need to demonstrate that they are able to:

- Read & interpret technical parameters/document, plan and organize work processes, identify necessary materials and tools;
- Perform task with due consideration to safety rules, accident prevention regulations and environmental protection stipulations;
- Apply professional skill, knowledge, core skills & employability skills while performing jobs and solve problem during execution.
- Check the job/finishing and assembly as per drawing, identify and rectify errors in job/assembly.
- Document the technical parameters related to the task undertaken.

2.2 CAREER PROGRESSION PATHWAYS:

- Indicative pathways for vertical mobility.



2.3 COURSE STRUCTURE:

Table below depicts the distribution of training hours across various course elements during a period of two years (*Basic Training and On-Job Training*): -

Total training duration details: -

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

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A. Basic Training

For 02 yrs. Engg. Course :- (Total 06 months: 03 months in 1st yr. + 03 months in 2nd yr.)

For 01 yr. Engg. course :- (Total 03 months: 03 months in 1st yr.)

Sl. No.	Course Element	Total Notional Training Hours	
		For 02 yrs. course	For 01 yr. course
1	Professional Skill (Trade Practical)	550	275
2	Professional Knowledge (Trade Theory)	240	120
3	Workshop Calculation & Science	40	20
4	Engineering Drawing	60	30
5	Employability Skills	110	55
	Total (including Internal Assessment)	1000	500

B. On-Job Training:-

For 02 yrs. Engg. Course :- (Total 18 months: 09 months in 1st yr. + 09 months in 2nd yr.)

Notional Training Hours for On-Job Training: 3120 Hrs.

For 01 yr. Engg. course :- (Total 12 months)

Notional Training Hours for On-Job Training: 2080 Hrs.

C. Total training hours:-

Duration	Basic Training	On-Job Training	Total
For 02 Engg. yrs. course	1000 hrs.	3120 hrs.	4120 hrs.
For 01 yr. Engg. course	500 hrs.	2080 hrs.	2580 hrs.

2.4 ASSESSMENT & CERTIFICATION:

The trainee will be tested for his skill, knowledge and attitude during the period of course and at the end of the training programme as notified by Govt of India from time to time. The Employability skills will be tested in first two semesters only.

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a) The **Internal assessment** during the period of training will be done by **Formative assessment method** by testing for assessment criteria listed against learning outcomes. The training institute have to maintain individual *trainee portfolio* as detailed in assessment guideline (section-2.4.2). The marks of internal assessment will be as per the template (Annexure – II).

b) The final assessment will be in the form of summative assessment method. The All India Trade Test for awarding NAC will be conducted by NCVT on completion of course as per guideline of Govt of India. The pattern and marking structure is being notified by govt of India from time to time. **The learning outcome and assessment criteria will be basis for setting question papers for final assessment. The examiner during final examination will also check individual trainee's profile as detailed in assessment guideline (section-2.4.2) before giving marks for practical examination.**

2.4.1 PASS REGULATION

The minimum pass percent for Practical is 60% & minimum pass percent for Theory subjects 40%. The candidate pass in each subject conducted under all India trade test.

2.4.2 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 should be given while assessing for team work, avoidance/reduction of scrap/wastage and disposal of scarp/wastage as per procedure, behavioral attitude, sensitivity to environment and regularity in training. The sensitivity towards OSHE and self-learning attitude are to be considered while assessing competency.

Assessment will be evidence based comprising the following:

- Job carried out in labs/workshop
- Record book/ daily diary
- Answer sheet of assessment
- Viva-voce
- Progress chart
- Attendance and punctuality
- Assignment
- Project work

Evidences of internal assessments are to be preserved until forthcoming semester examination for audit and verification by examination body. The following marking pattern to be adopted while assessing:

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Performance Level	Evidence
(a) Weightage in the range of 60 -75% to be allotted during assessment	
For performance in 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.	• Demonstration of good skill in the use of hand tools, machine tools and workshop equipment • Below 70% tolerance dimension/accuracy achieved while undertaking different work with those demanded by the component/job/set standards. • 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	
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.	• Good skill levels in the use of hand tools, machine tools and workshop equipment • 70-80% tolerance dimension/accuracy achieved while undertaking different work with those demanded by the component/job/set standards. • 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	
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.	• High skill levels in the use of hand tools, machine tools and workshop equipment • Above 80% tolerance dimension/accuracy achieved while undertaking different work with those demanded by the component/job/set standards. • A high level of neatness and consistency in the finish. • Minimal or no support in completing the project.

Brief description of Job roles:

Interior Designer

Interior Designer plans, designs, and furnishes interiors of residential, commercial, or industrial buildings. Formulates design which is practical, aesthetic, and conducive to intended purposes, such as raising productivity, selling merchandise, or improving life style. May specialize in a particular field, style, or phase of interior design. Estimates material requirements and costs, and presents design to client for approval. Confers with client to determine factors affecting planning interior environments, such as budget, architectural preferences, and purpose and function. Advises client on interior design factors, such as space planning, layout and utilisation of furnishings and equipment, and colour co-ordination. Selects or designs and purchases furnishings, art works, and accessories. Subcontract fabrication, installation, and arrangement of carpeting, fixtures, accessories, draperies, paint and wall coverings, art work, furniture, and related items. Render design ideas in form of paste-ups or drawings. Plans and designs interior environments for boats, planes, buses, trains, and other enclosed spaces.

Decorator

Decorator; Designer creates artistic and ornamental designs in colour for interior and exterior decorations and displays and arranges in attractive manner wares, products, furniture etc. Creates own designs to satisfy clients requirements and taste etc. showing style, shape, size and other characteristics or products. Makes sketches and diagrams or design keeping into consideration purpose, cost and preferences of client. Arranges decorative material, furniture, wares, products etc. in artistic manner. May specialize in setting and decorating stages and may be known as Set Decorator. May be known as Interior Decorator, Decorative Designer, Window Display Designer, Display Artist, etc., according to field of specialisation.

Furniture Designer

Furniture Designer designs furniture line or individual pieces for manufacture according to knowledge of design trends, offerings or competition, capability of production facilities and characteristics of company's traditional market. Studies market trends and customer needs and discusses design suggestions with production management and trade channels. Evaluates proposals and prepares freehand sketches of promising designs. Obtains approval from customer, design committee or company management and originates scale drawing of approved designs, using drawing instruments. Traces drawing on tracing cloth, preparatory to production of blue print; Prepares or directs preparation of blueprints containing manufacturing specifications, such as dimensions, kind of wood and upholstery fabrics to be

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used in manufacturing furniture line or article. May plan modifications for completed furniture to conform to changes in design trends and increase customer acceptance.

Bathroom and Kitchen Designer

Bathroom and Kitchen Designer is responsible for design of bathrooms and kitchens in a housing setups.

Decorators and Commercial Designers, Other

Decorators and Commercial Designers, other include other associate professionals who apply artistic techniques to product design, interior decoration and sales promotion not elsewhere classified.

Reference NCO-2015:

- (i) 3432.0100 – Interior Designer
- (ii) 3432.0200 – Decorator
- (iii) 2163.0400 – Furniture Designer
- (iv) 3432.0501 – Bathroom and Kitchen Designer
- (v) 3432.9900 – Decorators and Commercial Designers, Other



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4. NSQF LEVEL COMPLIANCE

NSQF level for Interior Designer & Decorator trade under ATS: **Level 5**

As per notification issued by Govt. of India dated- 27.12.2013 on National Skill Qualification Framework total 10 (Ten) Levels are defined.

Each level of the NSQF is associated with a set of descriptors made up of five outcome statements, which describe in general terms, the minimum knowledge, skills and attributes that a learner needs to acquire in order to be certified for that level.

Each level of the NSQF is described by a statement of learning outcomes in five domains, known as level descriptors. These five domains are:

- a. Process
- b. professional knowledge,
- c. professional skill,
- d. core skill and
- e. Responsibility.



The Broad Learning outcome of Interior Designer & Decorator trade under ATS mostly matches with the Level descriptor at Level- 5.

The NSQF level-5 descriptor is given below:

Level	Process Required	Professional Knowledge	Professional Skill	Core Skill	Responsibility
Level 5	Job that requires well developed skill, with clear choice of procedures in familiar context.	Knowledge of facts, principles, processes and general concepts, in a field of work or study	A range of cognitive and practical skills required to accomplish tasks and solve problem by selecting and applying basic methods, tools, materials and information.	Desired mathematical skill, understanding of social, political and some skill of collecting and organizing information, communication.	Responsibility for own work and Learning and some responsibility for other's works and learning.

5. GENERAL INFORMATION

Name of the Trade	INTERIOR DESIGNER & DECORATOR
NCO-2015	3432.0100, 3432.0200, 2163.0400, 3432.0501, 3432.9900
NSQF Level	Level – 5
Duration of Apprenticeship Training (Basic Training + On-Job Training)	Two years (02 Blocks each of one year duration).
Duration of Basic Training	a) Block –I : 3 months b) Block – II : 3 months Total duration of Basic Training: 6 months
Duration of On-Job Training	a) Block–I: 9 months b) Block–II : 9 months Total duration of Practical Training: 18 months
Entry Qualification	Passed 10 th Class under 10+2 system of Education or its equivalent
Selection of Apprentices	The apprentices will be selected as per Apprenticeship Act amended time to time.
Instructors Qualification for Basic Training	As per ITI instructors qualifications as amended time to time for the specific trade.
Infrastructure for Basic Training	As per related trades of ITI
Examination	The internal examination/ assessment will be held on completion of each block. Final examination for all subjects will be held at the end of course and same will be conducted by NCVT.
Rebate to Ex-ITI Trainees	01 year
CTS trades eligible for Interior Designer & Decorator Apprenticeship	1. Interior Designer & Decorator

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.
- For imparting Basic Training the industry to tie-up with ITIs having such specific trade and affiliated to NCVT.

6. LEARNING OUTCOME

6.1 GENERIC LEARNING OUTCOME

The following are minimum broad Common Occupational Skills/ Generic Learning Outcome after completion of the Interior Designer & Decorator course of 02 years duration under ATS.

Block I & II -

1. Recognize & comply safe working practices, environment regulation and housekeeping.
2. Understand and explain different mathematical calculation & science in the field of study including basic electrical. *[Different mathematical calculation & science -Work, Power & Energy, Algebra, Geometry & Mensuration, Trigonometry, Heat & Temperature, Levers & Simple machine, graph, Statistics, Centre of gravity, Power transmission, Pressure]*
3. Interpret specifications, different drawing and apply for different application in the field of work. *[Different drawing-Geometrical construction, Dimensioning, Layout, Method of representation, Symbol, scales, Different Projections, Machined components & different thread forms, Assembly drawing, Sectional views, Estimation of material, Electrical & electronic symbol]*
4. Select and ascertain measuring instrument and measure dimension of components and record data.
5. Explain the concept in productivity, quality tools, and labour welfare legislation and apply such in day to day work to improve productivity & quality.
6. Explain energy conservation, global warming and pollution and contribute in day to day work by optimally using available resources.
7. Explain personnel finance, entrepreneurship and manage/organize related task in day to day work for personal & societal growth.
8. Plan and organize the work related to the occupation.

6.2 SPECIFIC LEARNING OUTCOME

Block – I

1. Identify safety precaution on the shop floor.
2. Draw Free hand sketching of geometrical figure furniture and door Design, Window design.
3. Explain simple problem on projecting of point's lines surfaces and solids.
4. Define Theories of colors for various color scheme.
5. Draw different types of arches & lintels.

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6. Plan and draw Sections & Elevation of Residential building single story with sketches and line diagram.
7. Design and draw of furniture like sofa, bed, TV unit's dining table office furniture etc.
8. Draw Perspective views of interiors including coloring practice and Shading.
9. Design and draw pelmet and types of door window details.
10. Make Drawings of flooring Patterns.
11. Draw Isometric view of interiors like Kitchen, Drawing, and Dining & Bathrooms
12. Design Staircase types & Calculation and draw complete details including handrails
13. Design Residential Building rooms' services and utilities ex- kitchen, toilet etc.
14. Draw interior layout for various purposes (living, dining, drawing, bed rooms).
15. Select items as per Design which is used in interiors.
16. Identify Indoor / Outdoor Plants in which is used in interiors.

Block – II

17. Design and draw lighting plan with the help of tracing sheet.
18. Design and draw various false ceiling, flooring, partition & Paneling etc.
19. Explain varnishes, polishing, painting classification and uses.
20. Draw working drawing of various drawings and sanitary proposal Connected with building.
21. Operate Computer and able to draw various drawing using Autocad.
22. Prepare estimate of all types of Residential Building.
23. Design and draw working drawings of Commercial building.
24. Explain standard office procedure drawings.
25. Design and draw different types of furniture.
26. Identify and use different types of materials used in buildings i.e. flooring ,walls, ceiling etc.
27. Draw building plumbing electrical fittings etc.
28. Prepare working drawing of different types building by AutoCAD.
29. Select space programming circulation and design.
30. Carry out Case Study of hotels and corporate interiors.
31. Visit the historical Residential, hotels, Commercial Places.
32. Design display portion ex. Window and island display.
33. Identify how to deals with the customers.
34. Identify and use printout drawings of all types of sizes A1 A2 A3 A4.

Note: *Learning outcomes are reflection of total competencies of a trainee and assessment will be carried out as per assessment criteria.*

7. LEARNING OUTCOME WITH ASSESSMENT CRITERIA

GENERIC LEARNING OUTCOME	
LEARNING OUTCOMES	ASSESSMENT CRITERIA
1. Recognize & comply safe working practices, environment regulation and housekeeping.	1. 1. Follow and maintain procedures to achieve a safe working environment in line with occupational health and safety regulations and requirements.
	1. 2. Recognize and report all unsafe situations according to site policy.
	1. 3. Identify and take necessary precautions on fire and safety hazards and report according to site policy and procedures.
	1. 4. Identify, handle and store / dispose off dangerous/unsalvageable goods and substances according to site policy and procedures following safety regulations and requirements.
	1. 5. Identify and observe site policies and procedures in regard to illness or accident.
	1. 6. Identify safety alarms accurately.
	1. 7. Report supervisor/ Competent of authority in the event of accident or sickness of any staff and record accident details correctly according to site accident/injury procedures.
	1. 8. Identify and observe site evacuation procedures according to site policy.
	1. 9. Identify Personal Productive Equipment (PPE) and use the same as per related working environment.
	1. 10. Identify basic first aid and use them under different circumstances.
	1. 11. Identify different fire extinguisher and use the same as per requirement.
	1. 12. Identify environmental pollution & contribute to avoidance of same.
	1. 13. Take opportunities to use energy and materials in an environmentally friendly manner
	1. 14. Avoid waste and dispose waste as per procedure
	1. 15. Recognize different components of 5S and apply the same in the working environment.
2. Understand, explain different mathematical calculation & science in the field of study including basic	2.1 Explain concept of basic science related to the field such as Material science, Mass, weight, density, speed, velocity, heat & temperature, force, motion, pressure, heat treatment, centre of gravity, friction.

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electrical and	
apply in day to day work. <i>[Different mathematical calculation & science -Work, Power & Energy, Algebra, Geometry & Mensuration, Trigonometry, Heat & Temperature, Levers & Simple machine, graph, Statistics, Centre of gravity, Power transmission, Pressure]</i>	2.2 Measure dimensions as per drawing
	2.3 Use scale/ tapes to measure for fitting to specification.
	2.4 Comply given tolerance.
	2.5 Prepare list of appropriate materials by interpreting detail drawings and determine quantities of such materials.
	2.6 Ensure dimensional accuracy of assembly by using different instruments/gauges.
	2.7 Explain basic electricity, insulation & earthing.
3. Interpret specifications, different engineering drawing and apply for different application in the field of work. <i>[Different engineering drawing-Geometrical construction, Dimensioning, Layout, Method of representation, Symbol, scales, Different Projections, Machined components & different thread forms, Assembly drawing, Sectional views, Estimation of material, Electrical & electronic symbol]</i>	3. 1. Read & interpret the information on drawings and apply in executing practical work.
	3. 2. Read & analyse the specification to ascertain the material requirement, tools, and machining /assembly /maintenance parameters.
	3. 3. Encounter drawings with missing/unspecified key information and make own calculations to fill in missing dimension/parameters to carry out the work.
4. Select and ascertain measuring instrument and measure dimension of components and record data.	4.1 Select appropriate measuring instruments such as micrometers, verniercalipers, dial gauge, bevel protector and height gauge (as per tool list).
	4.2 Ascertain the functionality & correctness of the instrument.
	4.3 Measure dimension of the components & record data to analyse the with given drawing/measurement.
5. Explain the concept in productivity, quality tools, and labour welfare legislation and apply such in day to day work to improve productivity & quality.	5.1 Explain the concept of productivity and quality tools and apply during execution of job.
	5.2 Understand the basic concept of labour welfare legislation and adhere to responsibilities and remain sensitive towards such laws.
	5.3 Knows benefits guaranteed under various acts

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6. Explain energy conservation, global warming and pollution and contribute in day to day work by optimally using available resources.	6.1 Explain the concept of energy conservation, global warming, pollution and utilize the available resources optimally & remain sensitive to avoid environment pollution.
	6.2 Dispose waste following standard procedure.
7. Explain personnel finance, entrepreneurship and manage/organize related task in day to day work for personal & societal growth.	7. 1. Explain personnel finance and entrepreneurship.
	7. 2. Explain 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 /Programmes & procedure & the available scheme.
	7. 3. Prepare Project report to become an entrepreneur for submission to financial institutions.
8. Plan and organize the work related to the occupation.	8. 1. Use documents, drawings and recognize hazards in the work site.
	8. 2. Plan workplace/ assembly location with due consideration to operational stipulation
	8. 3. Communicate effectively with others and plan project tasks
	8. 4. Assign roles and responsibilities of the co-trainees for execution of the task effectively and monitor the same.
SPECIFIC OUTCOME	
<u>Block-I & II (Section:10)</u>	
<i>Assessment Criteria i.e. the standard of performance, for each specific learning outcome mentioned under block – I & block – II (section: 10) must ensure that the trainee achieves well developed skill with clear choice of procedure in familiar context. Assessment criteria should broadly cover the aspect of Planning (Identify, ascertain, estimate etc.); Execution (perform, illustration, demonstration etc. by applying 1) a range of cognitive and practical skills required to accomplish tasks and solve problems by selecting and applying basic methods, tools, materials and information 2) Knowledge of facts, principles, processes, and general concepts, in a field of work or study 3) Desired Mathematical Skills and some skill of collecting and organizing information, communication) and Checking/ Testing to ensure functionality during the assessment of each outcome. The assessments parameters must also ascertain that the candidate is responsible for own work and learning and some responsibility for other's work and learning.</i>	

BASIC TRAINING (Block – I)

Duration: (03) Three Months

Week No.	Professional Skills (Trade Practical)	Professional Knowledge (Trade Theory)
1	1. Importance of safety and general precaution observed in the trade. 2. 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	Introduction of Interior Design 3. Drawing instruments, equipment's and materials their used, care and maintenance. 4. 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	Colors 5. Primary, Secondary & Tertiary Color.	Graphics used for interior. Graphics symbols for Door, windows and furniture of different material.
4	Graphics & Anthropometric 6. Rendering, Symbols & Designing of Interior. 7. 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.
5-6	Bricks / Stone / R.C.C 8. Definition of Foundation, Damp Proof Course.	Detail of wall footing, R.C.C footing. Types of bricks, & bonds,
7	Doors / Windows 9. Types of doors, windows and ventilators with uses.	Drawing of different types of doors, windows and ventilators.
8	Lintel and Arches use in interior 10. Different types of lintel and arches.	Details of Lintel and Arches Drawing of different types of lintel and arches.
9-10	Types of Staircases 11. 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

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		spiral Plans & Ele.
11-12	Principle of perspective 12. Principal of isometric view & perspective view of furniture which is used in interiors	Functional design 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.
13	Internal Assessment/Examination 03days	

Note: - More emphasis to be given on video/real-life pictures during theoretical classes. Some real-life pictures/videos of related industry operations may be shown to the trainees to give a feel of Industry and their future assignment.



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BASIC TRAINING (Block – II)**Duration: (03) Three Months**

Week No.	Professional Skills (Trade Practical)	Professional Knowledge (Trade Theory)
1-2	False Ceiling & Partition 13. Materials used for false ceiling. 14. Types of partition wall- wooden, glass. 15. Materials used for Partition.	False Ceiling & Partition Making drawing of false ceiling and Partition of low height.
3	Flooring & Paneling 16. Types of floor finishing- method of constructing, mosaic, brick tiled etc. used in floors.	Flooring & Paneling Drawing details –tiled, timber, pattern, stone, mosaic, glass, carpets. Details of wooden Panelling
4	Paints & Polishing 17. Polishes - method of preparation- different types classification and their application on woods.	Paints & Polishing Design the Painting of walls, ceiling with color, Design the painting of doors and windows
5-7	Plumbing 18. Water supply pipe lines house drainage, sanitary fittings Lighting 19. Types and system of lighting. Safety precautions. Air conditioner 20. Types of air Conditioning	Interior services : Planning of plumbing. Preparation of drawing showing various pipe joints for underground drainage, method of sanitary fittings in buildings, manholes, septic tanks etc. Lighting: Types of Lighting system in different spaces of interiors Note:- Necessary practical training will be carried out on site.
8-10	Planning of Residential interior 21. Residential Project – planning of residential building in small scale. 22. Estimate and costing of different types of material	Plan Layout: Introduction of Residential project – detail layout plan, elevations, one point perspective and two point perspective like Bed Room, Drawing Room, Kitchen, Bathroom & Staircase
11	Fabrics: 23. Types of curtains , Pelmet with specifications	Fabrics: Practice Types of curtains , Pelmet
12	Preliminary Drawing in CAD 24. CAD commands and use of different menus	CAD training- Drawing practice on CAD software.
13	Internal Assessment/Examination 03days	

Note: - More emphasis to be given on video/real-life pictures during theoretical classes. Some real-life pictures/videos of related industry operations may be shown to the trainees to give a feel of Industry and their future assignment.

9.1 WORKSHOP CALCULATION SCIENCE & ENGINEERING DRAWING

Block – I	
Sl. No.	Workshop Calculation and Science (Duration: - 20 hrs.)
1.	Units & Measurements- FPS, CGS, MKS/SI unit, unit of length, Mass and time. Fundamentals and derived units Conversion of units and applied problems.
2.	Material Science : properties -Physical & Mechanical, Types -Ferrous & Non-Ferrous, difference between Ferrous and Non-Ferrous metals
3.	Mass .Weight and Density : Mass, Unit of Mass, Weight, difference between mass and weight, Density, unit of density,
4.	Speed and Velocity: Rest and motion, speed, velocity, difference between speed and velocity, acceleration, retardation. Average Velocity, Acceleration & Retardation. Related problems. Circular Motion: Relation between circular motion and Linear motion, Centrifugal force, Centripetal force
5.	Ratio & Proportion : Simple calculation on related problems. - Percentage: Introduction, Simple calculation.
6.	Work, Power and Energy: work, unit of work, power, unit of power, Horse power of engines, mechanical efficiency, energy, use of energy, potential and kinetic energy, examples of potential energy and kinetic energy. - Meaning of H.P., I.H.P., B.H.P., and F.H.P. and CC and Torque.

Block – II	
Sl. No.	Workshop Calculation and Science (Duration: - 20 hrs.)
1.	Algebra: Addition, Subtraction, Multiplication, Division, Algebraic formula, Linear equations (with two variables).
2.	Heat & Temperature: Heat and temperature, their units, difference between heat and temperature, boiling point, melting point, scale of temperature, relation between different scale of temperature, Thermometer, pyrometer, transmission of heat, conduction, convection, radiation.
3.	Mensuration: Area and perimeter of square, rectangle, parallelogram, triangle, circle, semi circle, Volume of solids - cube, cuboid, cylinder and Sphere. Surface area of solids -cube, cuboid, cylinder and Sphere. Volume of cut-out solids: hollow cylinders, frustum of cone, block section. Volume of simple solid blocks.
4.	Basic Electricity: Introduction, use of electricity, how electricity is produced, Types of current_ AC, DC, their comparison, voltage, resistance, their units. Conductor, insulator, Types of connections - series, parallel, electric power, Horse power, energy, unit of electrical energy. Concept of earthing.
5.	Simple machines Transmission of power: -Transmission of power by belt, pulleys & gear drive. Heat treatment process: - Heat treatment and advantages. Annealing, Normalizing, Hardening, Tempering.
6.	Trigonometry: Trigonometrical ratios, measurement of angles. Trigonometric tables. Finding the value of unknown sides and angles of a triangle by Trigonometrical method. Finding height and distance by trigonometry. Application of trigonometry in shop problems. (viz. taper angle calculation). Calculate the area of triangle by using trigonometry and application of Pythagoras theorem.
7.	Concept of pressure - Definition: -Force, Pressure, and their units, atmospheric pressure, gauges used for measuring pressure, problems. Introduction to pneumatics & hydraulics systems
8.	Simple exercises related to trade related Test Papers. Solution of NCVT test papers.

9.2 EMPLOYABILITY SKILLS**(DURATION: - 110 HRS.)**

Block – I (Duration – 55 hrs.)		
1. English Literacy		Duration : 20 Hrs. Marks : 09
Pronunciation	Accentuation (mode of pronunciation) on simple words, Diction (use of word and speech)	
Functional Grammar	Transformation of sentences, Voice change, Change of tense, Spellings.	
Reading	Reading and understanding simple sentences about self, work and environment	
Writing	Construction of simple sentences Writing simple English	
Speaking / Spoken English	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.	
2. I.T. Literacy		Duration : 20 Hrs. Marks : 09
Basics of Computer	Introduction, Computer and its applications, Hardware and peripherals, Switching on-Starting and shutting down of computer.	
Computer Operating System	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.	
Word processing and Worksheet	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.	
Computer Networking	Basic of computer Networks (using real life examples), Definitions of	

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and Internet	Local Area Network (LAN), Wide Area Network (WAN), Internet, Concept of Internet (Network of Networks), 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. Information Security and antivirus tools, Do's and Don'ts in Information Security, Awareness of IT - ACT, types of cyber crimes.
3. Communication Skills	
	Duration : 15 Hrs. Marks : 07
Introduction to Communication Skills	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.
Listening Skills	Listening-hearing and listening, effective listening, barriers to effective listening guidelines for effective listening. Triple- A Listening - Attitude, Attention & Adjustment. Active Listening Skills.
Motivational Training	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.
Facing Interviews	Manners, Etiquettes, Dress code for an interview Do's & Don'ts for an interview.
Behavioral Skills	Problem Solving Confidence Building Attitude
Block – II Duration – 55 hrs.	
4. Entrepreneurship Skills	
	Duration : 15 Hrs. Marks : 06

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Concept of Entrepreneurship	Entrepreneur - 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.
Project Preparation & Marketing analysis	Qualities of a good Entrepreneur, SWOT and Risk Analysis. Concept & application of PLC, Sales & distribution Management. Different Between Small Scale & Large Scale Business, Market Survey, Method of marketing, Publicity and advertisement, Marketing Mix.
Institutions Support	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 /Programmes & procedure & the available scheme.
Investment Procurement	Project formation, Feasibility, Legal formalities i.e., Shop Act, Estimation & Costing, Investment procedure - Loan procurement - Banking Processes.
5. Productivity	
Duration : 10 Hrs. Marks : 05	
Benefits	Personal / Workman - Incentive, Production linked Bonus, Improvement in living standard.
Affecting Factors	Skills, Working Aids, Automation, Environment, Motivation - How improves or slows down.
Comparison with developed countries	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.
Personal Finance Management	Banking processes, Handling ATM, KYC registration, safe cash handling, Personal risk and Insurance.
6. Occupational Safety, Health and Environment Education	
Duration : 15 Hrs. Marks : 06	
Safety & Health	Introduction to Occupational Safety and Health importance of safety and health at workplace.
Occupational Hazards	Basic Hazards, Chemical Hazards, Vibroacoustic Hazards, Mechanical Hazards, Electrical Hazards, Thermal Hazards. Occupational health, Occupational hygienic, Occupational Diseases/ Disorders & its prevention.
Accident & safety	Basic principles for protective equipment. Accident Prevention techniques - control of accidents and safety

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	measures.
First Aid	Care of injured & Sick at the workplaces, First-Aid & Transportation of sick person.
Basic Provisions	Idea of basic provision legislation of India. safety, health, welfare under legislative of India.
Ecosystem	Introduction to Environment. Relationship between Society and Environment, Ecosystem and Factors causing imbalance.
Pollution	Pollution and pollutants including liquid, gaseous, solid and hazardous waste.
Energy Conservation	Conservation of Energy, re-use and recycle.
Global warming	Global warming, climate change and Ozone layer depletion.
Ground Water	Hydrological cycle, ground and surface water, Conservation and Harvesting of water.
Environment	Right attitude towards environment, Maintenance of in -house environment.
7. Labour Welfare Legislation	
Duration : 05 Hrs. Marks : 03	
Welfare Acts	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.
8. Quality Tools	
Duration : 10 Hrs. Marks : 05	
Quality Consciousness	Meaning of quality, Quality characteristic.
Quality Circles	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.
Quality Management System	Idea of ISO 9000 and BIS systems and its importance in maintaining qualities.
House Keeping	Purpose of House-keeping, Practice of good Housekeeping.
Quality Tools	Basic quality tools with a few examples.

10. DETAILS OF COMPETENCIES (ON-JOB TRAINING)

BROAD LEARNING TO BE COVERED IN INDUSTRY FOR INTERIOR DESIGNER & DECORATOR TRADE:

1. Safety and best practices /Basic Industrial Culture (5S, KAIZEN, etc.)
2. Record keeping and documentation
3. Design and draw different types of drawings Residential and Commercial. Identify and use different types of materials.
4. Make all drawings on Auto Cad software.
5. Deal the customers effectively.

Note: Actual training will depend on the existing facilities available in the establishments.

The **competencies/ specific outcomes** on completion of On-Job Training are detailed below: -

Block – I

1. Identify safety precaution on the shop floor.
2. Draw Free hand sketching of geometrical figure furniture and door Design, Window design.
3. Explain simple problem on projecting of point's lines surfaces and solids.
4. Define Theories of colors for various color scheme.
5. Draw different types of arches & lintels.
6. Plan and draw Sections & Elevation of Residential building single story with sketches and line diagram.
7. Design and draw of furniture like sofa, bed, TV unit's dining table office furniture etc.
8. Draw Perspective views of interiors including coloring practice and Shading.
9. Design and draw pelmet and types of door window details.
10. Make Drawings of flooring Patterns.
11. Draw Isometric view of interiors like Kitchen, Drawing, and Dinning & Bathrooms
12. Design Staircase types & Calculation and draw complete details including handrails
13. Design Residential Building rooms' services and utilities ex- kitchen, toilet etc.
14. Draw interior layout for various purposes (living, dining, drawing, bed rooms).
15. Select items as per Design which is used in interiors.
16. Identify Indoor / Outdoor Plants in which is used in interiors.

Block – II

17. Design and draw lighting plan with the help of tracing sheet.
18. Design and draw various false ceiling, flooring, partition & Paneling etc.
19. Explain varnishes, polishing, painting classification and uses.
20. Draw working drawing of various drawings and sanitary proposal Connected with building.

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21. Operate Computer and able to draw various drawing using Autocad.
22. Prepare estimate of all types of Residential Building.
23. Design and draw working drawings of Commercial building.
24. Explain standard office procedure drawings.
25. Design and draw different types of furniture.
26. Identify and use different types of materials used in buildings i.e. flooring ,walls, ceiling etc.
27. Draw building plumbing electrical fittings etc.
28. Prepare working drawing of different types building by AutoCAD.
29. Select space programming circulation and design.
30. Carry out Case Study of hotels and corporate interiors.
31. Visit the historical Residential, hotels, Commercial Places.
32. Design display portion ex. Window and island display.
33. Identify how to deals with the customers.
34. Identify and use printout drawings of all types of sizes A1 A2 A3 A4.

Note:

1. Industry must ensure that above mentioned competencies are achieved by the trainees during their on job training.
2. In addition to above competencies/ outcomes industry may impart additional training relevant to the specific industry.

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INFRASTRUCTURE FOR PROFESSIONAL SKILL & PROFESSIONAL KNOWLEDGE

INTERIOR DESIGNER & DECORATOR			
LIST OF TOOLS AND EQUIPMENT for Basic Training (For 20 Apprentices)			
A. TRAINEES TOOL KIT (For each additional unit trainees tool kit is required additionally)			
S No.	Name of the Item	Specification	Quantity
A : TRAINEES TOOL KIT:-			
1.	Modular writing pad chairs with adjustable pad for theory class room		20+1 No.
2.	Drawing Boards measuring	1250mm x900mm fixed over adjustable stand	20+1Sets
2.	Draughtsman stool with back (revolving type)		20+1 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)		

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FURNITURE FOR CAD LAB			
1.	Personal Computer with LCD monitor & DVD re-writer along with Latest compatible OS		20+1 No.
2.	Notebook PC		2 No.
3.	Drafting Software like AutoCAD, or equiv.		20+1 No.
4.	3D modeling software like Max, Revit etc.		20+1 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+1 Nos.
14.	Printer Table (module type)		2 No.
15.	Operator's revolving chair		21 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.

TOOLS & EQUIPMENTS FOR EMPLOYABILITY SKILLS		
Sl. No.	Name of the Equipment	Quantity
1.	Computer (PC) with latest configurations and Internet connection with standard operating system and standard word processor and worksheet software	10 Nos.
2.	UPS - 500VA	10 Nos.
3.	Scanner cum Printer	1 No.
4.	Computer Tables	10 Nos.
5.	Computer Chairs	21 Nos.
6.	LCD Projector	1 No.
7.	White Board 1200mm x 900mm	1 No.
<i>Note: - Above Tools & Equipments not required, if Computer LAB is available in the institute.</i>		

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FORMAT FOR INTERNAL ASSESSMENT

Name & Address of the Assessor :						Year of Enrollment :								
Name & Address of ITI (Govt./Pvt.) :						Date of Assessment :								
Name & Address of the Industry :						Assessment location: Industry / ITI								
Trade Name :			Semester:			Duration of the Trade/course:								
Learning Outcome:														
Sl. No	Maximum Marks (Total 100 Marks)		15	5	10	5	10	10	5	10	15	15	Total internal assessment Marks	Result (Y/N)
	Candidate Name	Father's/Mother's Name	Safety consciousness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	VIVA		
1														
2														