

**NSQF QUALIFICATION FILE**

**Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020**

**NSDA Code**

**2020/CON/DGT/03679**

**CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE**

Directorate General of Training (DGT)  
Government of India, Ministry of Skill Development and Entrepreneurship,  
1st and 2nd Floor, CIRTES Building  
Next to Pusa ITI, Pusa Campus  
New Delhi – 110012.

**Name and address of submitting body:**

Directorate General of Training (DGT)  
Government of India, Ministry of Skill Development and Entrepreneurship,  
1st and 2nd Floor, CIRTES Building  
Next to Pusa ITI, Pusa Campus  
New Delhi – 110012.

**Name and contact details of individual dealing with the submission**

Name: Shri Deepankar Mallick

Position in the organisation: Deputy Director General (C & P)

Address if different from above:

Tel number(s): 011-25847035

E-mail address: deepankar.mallick60@nic.in

**List of documents submitted in support of the Qualifications File**

1. Competency-based curriculum with following details:

Model Curriculum to be added which will include the following:

- a) Indicative list of tools/equipment to conduct the training: Enclosed with curriculum
- b) Trainers qualification: Indicated in the curriculum
- c) Lesson Plan: All DGT curricula are designed indicating specific practical to be carried out during training along with details of trade theory. Based on this the concerned instructor prepares the Lesson Plan and Demonstration Plan with support of IMPs developed by NIMI,DGT.

**NSQF QUALIFICATION FILE**

**Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020**

- d) Distribution of training duration into theory/practical/OJT component: Indicated in the curriculum.
- 2. Curriculum for Core Skills (Workshop Calculation & Science and Employability Skills).

NSQC Approved

## NSQF QUALIFICATION FILE

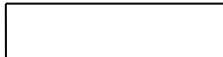
Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020

## SUMMARY

1	<b>Qualification Title</b>	<b>'ARCHITECTURAL DRAUGHTSMAN'</b>
2	<b>Qualification Code, if any</b>	<b>DGT/1071</b>
3	<b>NCO code and occupation</b>	3118.0100 - Architectural Draughtsman
4	<b>Nature and purpose of the qualification (Please specify whether qualification is short term or long term)</b>	<p>Prepare skilled Technician to undertake the job roles of Architectural Draughtsman and will enable the trainee to prepare drawings of buildings, parks, gardens, monuments etc. from sketches, designs or data for construction.</p> <p>It is long term qualification.</p>
5	<b>Body/bodies which will award the qualification</b>	Directorate General of Training (DGT).
6	<b>Body which will accredit providers to offer courses leading to the qualification</b>	Directorate General of Training (DGT) accredits the Training providers (ITIs/ NSTIs/ MSTIs/ BTCs/ BTPs / Industries / Establishments).
7	<b>Whether accreditation/affiliation norms are already in place or not, if applicable (if yes, attach a copy)</b>	<p>Yes.</p> <p>The accreditation/ affiliation norms and any amendments made from time to time are available on DGT web portal.</p>
8	<b>Occupation(s) to which the qualification gives access</b>	<ul style="list-style-type: none"> <li>Architectural Draughtsman</li> </ul>
9	<b>Job description of the occupation</b>	<p>The individual studies note, sketches and other engineering data of buildings, parks, gardens, monuments, etc. to be constructed. Draws sketches of required construction according to directions of Architect to suit purpose and environment; alters them if directed and get them approved by him. Draws to scale drawings according to approved sketches showing plan, elevations, settings, arrangements etc. as necessary.</p>
10	<b>Licensing requirements</b>	NOT REQUIRED
11	<b>Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)</b>	NOT APPLICABLE

## NSQF QUALIFICATION FILE

Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020

12	Level of the qualification in the NSQF	Level 5		
13	Anticipated volume of training/learning required to complete the qualification	Sl. No.	Course Element	Notional Training Hours
		1	Professional Skill (Trade Practical)	2240
		2	Professional Knowledge (Trade Theory)	560
		3	Workshop Calculation & Science	160
		5	Employability Skills	240
			Total	3200
14	Indicative list of training tools required to deliver this qualification	As per Annexure I of curriculum.		
15	Entry requirements and/or recommendations and minimum age	Passed 10 <sup>th</sup> Class examination under 10+2 system of Education with science and mathematics. Minimum age 14 years as on first day of academic session		
16	Progression from the qualification (Please show Professional and academic progression)	An Individual can proceed for:		
		Professional <ul style="list-style-type: none"> <li>• Technician</li> <li>• Senior Technician</li> <li>• Supervisor</li> <li>• Manager</li> <li>• Entrepreneur</li> </ul>	Technical / Academic  ATS CITS Diploma/ Advance Diploma (Vocational)	
17	Arrangements for the Recognition of Prior learning (RPL)	<ul style="list-style-type: none"> <li>• Yes (For more details refer “Guidelines for Private candidate” in DGT website MIS portal).</li> </ul>		
18	International comparability where known (research evidence to be provided)	-		
19	Date of planned review of the	5 Yrs. from the Date of Approval		

## NSQF QUALIFICATION FILE

Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020

	qualification.			
20	<b>Formal structure of the qualification</b>			
	<b>Mandatory components</b>			
	<b>Title of component and identification code/NOSs/ Learning Outcomes</b>	<b>Estimated size (learning hours)</b>		<b>Level</b>
		<b>Skills</b>	<b>Knowledge</b>	
<b>TRADE SPECIFIC</b>				
(i)	Draw different types of architectural symbols following safety precautions.	56	12	4
(ii)	Draw different types free hand sketches.	14	03	4
(iii)	Draw different type of letterings.	14	03	4
(iv)	Draw different types of plane geometry.	28	06	4
(v)	Draw orthographic projections.	112	24	5
(vi)	Draw different sizes of Bricks and Brick Masonry.	56	12	5
(vii)	Draw different types of Stone Masonry.	28	06	5
(viii)	Draw different types of Foundation.	28	06	5
(ix)	Draw different Carpentry Joints.	28	06	5
(x)	Draw different types of Wooden Doors and Windows.	56	12	5
(xi)	Draw different types of Lintels.	28	06	5
(xii)	Draw different types of Arches.	28	06	5
(xiii)	Draft in CAD.	84	18	5
(xiv)	Draw details of Damp proof Course (DPC) and Water Proofing Treatment at different locations.	56	12	5
(xv)	Draw plan, elevation and side view of Solids in inclined positions and Section of	56	12	5

**NSQF QUALIFICATION FILE****Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020**

	Solids.			
(xvi)	Illustrate design procedure of Residential Building.	56	12	5
(xvii)	Draw plan, elevation and section through toilet of the residential building and the site plan with landscape.	56	12	5
(xviii)	Draw typical vertical section of an external wall of two storied load bearing structure and RCC framed structure.	28	06	5
(xix)	Draw Plan, elevation and Construction Details of different types of stairs.	84	18	5
(xx)	Draw different types of flooring details.	56	12	5
(xxi)	Produce final project work applying advance CAD commands and File management.	84	18	5
(xxii)	Surface Development of geometrical solids.	84	18	5
(xxiii)	Illustrate Design-Concept and visualization of design. Topic: Residential (single/double storied), Post office, Farmhouse.	56	16	5
(xxiv)	Draw sanction drawing with local authority bye laws.	56	16	5
(xxv)	Preliminary drawing of the Design project in AUTOCAD.	56	16	5
(xxvi)	Read and Interpret structural drawing.	28	08	5
(xxvii)	Draw 3 D model by sketch up software along with rendering, walkthrough, animated view.	84	24	5
(xxviii)	Draw details of different types of doors.	56	16	5
(xxix)	Draw details of different types of windows.	56	16	5
(xxx)	Draw details of roofs and roof covering.	56	16	5
(xxxi)	Prepare final design drawings in AUTOCAD.	56	16	5
(xxxii)	Draw working drawing set to the site to execution.	56	16	5
(xxxiii)	Draw the Anthropometrics & ergonomics of commercial building.	28	08	5
(xxxiv)	Draw Standard sizes of outdoor movements like swimming pool, basketball court, badminton court, play area etc.	28	08	5

**NSQF QUALIFICATION FILE****Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020**

(xxxv)	Prepare design and the site plan with landscape of Residential Apartment/primary school in AUTOCAD.	84	24	5
(xxxvi)	Draw joints in structures (viz. Details of construction joints at various positions, Details of expansion joints in walls, roof.	84	24	5
(xxxvii)	Prepare 3D model and BOQ using BIM software (REVIT ARCHITECTURE).	196	56	5
(xxxviii)	Perform rendering in Photoshop (Convert the drawings in pdf and then render it in Photoshop with necessary details).	56	16	5
(xxxix)	Prepare Working drawing – viz. Kitchen layout, Electrical layout, Plumbing Layout, DWV details	84	24	5
<b>CORE SKILL</b>				
<b>EMPLOYABILITY SKILLS</b>				
(i)	Apply safe working practices.	-	30	5
(ii)	Comply with environment regulation and housekeeping.		30	5
(iii)	Interpret & use formal and technical communication.		30	5
(iv)	Apply the concept in productivity & quality management in day to day work to improve productivity & quality.		30	5
(v)	List and interpret various acts of labour welfare legislation.		30	5
(vi)	Explain energy conservation, global warming and pollution and contribute in day to day work by optimally using available resources.		30	5
(vii)	Explain personnel finance, entrepreneurship and manage/organize related task in day to day work for personal & societal growth.		30	5
(viii)	Utilize computer applications and internet to take benefit of IT developments in the industry.		30	5
<b>WORKSHOP CALCULATION &amp; SCIENCE</b>				

**NSQF QUALIFICATION FILE****Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020**

(i)	Demonstrate mathematical concept and principles to perform practical operations.	-	80	5
(ii)	Explain science in the field of study including simple machine.		80	5
	<b>Total</b>	3200		

NSQC Approved



**NSQF QUALIFICATION FILE****Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020****SECTION 1****ASSESSMENT**

21	<p><b>Body/Bodies which will carry out assessment:</b> Controller of Examinations, DGT</p>
22	<p>DGT will carry out the RPL assessment following the below mentioned eligibility criteria for Trainee:</p> <p>Applicants aspiring to appear as Private Candidates in the AITT under CTS for award of NTC, have been categorized based on their educational background and experience. Subsequently 'Private Candidates' may be admitted under one of the following categories. Category wise 'eligibility criteria' for appearing as 'Private Candidate' in AITT under CTS has been listed below:</p> <p>Category I: Ex-trainees (successful pass-outs) of ITI</p> <p>A. Ex-trainees of ITI who already possess NTC in one of the trades under CTS, are eligible for applying as Private candidate for an allied trade, provided he/ she fulfils all the conditions regarding educational qualification etc. prescribed for that allied trade.</p> <p>B. In addition, the applicant should possess minimum of 1 year experience (as on date of submission of application) post the date of AITT result declaration in the desired allied trade in establishments implementing Apprenticeship Training Scheme (ATS)/ establishments registered under the Apprenticeship portal or registered MSMEs or Entities registered with any government/local authorities / shops covered under Factories Act 1948 and Shops and Establishments Act applicable for the concerned State.</p> <p>Category II: 'Ex-trainees (successful pass-outs) and current trainees under CoE scheme</p> <p>A. The applicant should have the minimum prescribed entry qualification and should fulfil eligibility criteria for the desired trade under CTS, in which he/she intends to appear for AITT as Private Candidate. CoE candidates must register as 'Private Candidate' under CTS in the relevant/mapped CTS trade only.</p> <p>B. There should be a minimum gap of 1 year between successful completions of CoE training i.e. from the date of result declaration to the date of submission of application for 'Private Candidate' certification.</p> <p>C. During this gap of 1 year, the candidate must have undergone Industry training or gained experience in desired trade in establishments implementing Apprenticeship Training Scheme (ATS)/ establishments registered under the Apprenticeship portal or registered MSMEs or Entities registered with any government/local authorities / shops covered under Factories Act 1948 and Shops and Establishments Act applicable for the</p>

## NSQF QUALIFICATION FILE

Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020

	<p>concerned State.</p> <p>Category III: SCVT Candidates (admitted till August 2018 session)</p> <p>A. No special provisions have been made for SCVT Trainees to enrol as 'Private Candidate'. Going forward, SCVT trainees have been granted equivalence vide G.S.R 186(E) dated 2nd March 2017 for undergoing apprenticeship training under the Apprentices Act 1961 to obtain 'NAC'.</p> <p>B. Only for SCVT trainees admitted till August 2018 batch, provision has been made for obtaining NTC by appearing in AITT under 'Private Candidate'. Such trainees will continue to be governed by old guidelines for 'Private Candidate'.</p> <p>Category IV: Other Candidates (candidate not falling in any of the above 3 categories, including SCVT trainees enrolled from admission session 2019 onwards)</p> <p>A. The applicant should have the minimum prescribed entry qualification and should fulfil eligibility criteria for the relevant trade under CTS, in which he/she desires to appear for AITT as Private Candidate.</p> <p>B. Applicant should be minimum 21 years of age on the date of submission of application. There is no upper age limit.</p> <p>C. The applicant should possess minimum of 3 years' experience (on the date of submission of application) in the relevant trade in establishments implementing Apprenticeship Training Scheme (ATS)/ establishments registered under the Apprenticeship portal or registered MSMEs or Entities registered with any government/local authorities / shops covered under Factories Act 1948 and Shops and Establishments Act applicable for the concerned State.</p> <p>For detail and updated information please refer to DGT web portal.</p>
23	<p><b>Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, reliable and fair and show that these are in line with the requirements of the NSQF.</b></p> <p><b>(1) Assessment process:</b></p> <p>The assessment for the qualification is carried out by conducting formative assessments, and end of year examinations (Summative). The formative assessments in respect of each Learning Outcome for practical and related theory are conducted by the concerned instructors for evaluating the knowledge and skill acquired by trainees and the behavioural transformation of the trainees. This formative assessment is primarily carried out by collecting evidence of competence gained by the trainees by evaluating them at work based on assessment criteria, asking questions</p>

**NSQF QUALIFICATION FILE****Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020**

and initiating formative discussions to assess understanding and by evaluating records and reports. Summative assessment is carried out by All India Trade Test on Trade Theory, Trade practical, Workshop Calculation & Science, Engineering Drawing and Employability Skills. The question papers for the theory Examinations contain objective type questions.

The marking pattern and distribution of marks for the qualification are as under:

Marking Pattern				
Sl. No.	Type of Assessment	Subject for the Trade Test	Marks for the 1st Year	Marks for the 2nd Year
1	Summative Assessment	Practical	250	250
2		Trade Theory	100	100
3		Employability Skills	50	50
4		Workshop Calculation and Science.	50	50
6	Formative assessment based on Learning Outcomes		200	200
TOTAL:			650	650

**(2) Minimum pass marks:**

The minimum pass percent for Trade Practical and Formative assessment is 60% & for all other subjects is 33%. There will be no Grace marks.

**Testing and certifications for the course:**

Controller of examinations, DGT carries out the assessment and issues National Trade Certificate (NTC) following the norms and guidelines issued by the Directorate from time to time.

**Overall assessment strategy:**

Assessment of the qualification evaluates trainees to show that they can integrate knowledge, skills and values for carrying out relevant tasks as per the defined learning outcomes and assessment criteria. The trainees may

**NSQF QUALIFICATION FILE**

**Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020**

choose the preferred language for assessment. The underlying principle of assessment is fairness and transparency. While assessing the trainee, assessor is directed to assess as per the defined assessment criteria against the learning outcomes. The evidence of the competence acquired by the trainees can be obtained by conducting theory and practical examinations, observing the trainees at work, asking questions and initiating discussions to assess, understand and evaluate records and reports. The ultimate objective of the assessment is to assess the candidates as per the defined assessment criteria for the learning outcomes.

**Specific Arrangements for assessment:**

- Assessment is outcome-based.
- There are formative and summative assessments in Theory and Practical.
- Assessment is carried out in Trade theory, Trade Practical, Workshop

Calculation and Science and Employability Skills.

- While Trade Theory and Trade Practical are used for assessing Trade-related jobs, Workshop Calculation and Science is used to test trainee’s numerical and logical skills, Drawing is used to test the ability of the trainee to draw and read sketches and Employability skills is used to test the communication, professional language, leadership, entrepreneurship and team-work abilities of the trainee.
- In addition to demonstration of theory and practical knowledge, trainees get a chance to present total personality.

**Quality assurance activities:**

Question papers are set by external paper setters/ software generated. Evaluation of Theory Examinations in Trade, Workshop Calculation & Science, and Employability Skill is done by third-party agency. Trade Practical is examined by External Examiner.

**24. Assessment evidences**

**Title of Component: Formative Assessment Breakup**

( on half yearly average of the learning assessment covered)

**Means of assessment**

Assessment will be evidence based comprising the following for each Learning Outcome:

Serial	Terminal Competency	Maximum
--------	---------------------	---------

## NSQF QUALIFICATION FILE

Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020

No.		Weightage (%)
1	Safety consciousness	15
2	Workplace hygiene	5
3	Attendance/ Punctuality	10
4	Ability to follow Manuals/ Written instructions	5
5	Application of Knowledge	10
6	Skills to handle tools / equipment/ Instruments/ Devices	10
7	Economical use of materials	5
8	Working Strategy	10
9	Quality in workmanship/ Performance	15
10	VIVA	15
	Total Maximum Weightage (%)	100

**Pass/Fail**

The minimum pass percentage is 60% marks for formative assessment.

## NSQF QUALIFICATION FILE

Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020

## LEARNING OUTCOME WITH ASSESSMENT CRITERIA:

LEARNING OUTCOMES (TRADE SPECIFIC)	
LEARNING OUTCOME	ASSESSMENT CRITERIA
<b>FIRST YEAR</b>	
1. Draw different types of architectural symbols following safety precautions.	Set and fix drawing paper on the drawing board (a) prepare Layout of drawing sheet, (b) prepare a Title block, (c) mark and fold on the designated drawing Sheet
	Draw architectural symbols for materials, doors and windows
	Draw architectural symbols for trees, plants, shrubs.
	Draw architectural symbols for plumbing fittings
	Draw architectural symbols for electrical fittings and fixtures
2. Draw different types free hand sketches.	Sketch any types of trees, plants and shrubs
	Sketch any one structure of monument.
	Draw any landscape drawing with pencil rendering.
	Sketch any objects like cube, cone, sphere, cylinder, prism, pyramid
	Perform any one structure of different composition of patterns
3. Draw different type of letterings.	Read and interpret different types of lettering commonly used in drawings.
	Draw Gothic Lettering in Freehand. (a) Sketch Roman Lettering in Freehand. (b) Draw Architectural Lettering in Freehand.
4. Draw different types of plane geometry	Draw a line parallel to any given point
	Perform different methods to divide a line into any equal parts
	Draw different methods of bisecting an angle, line or arc.
	Draw geometrical constructions using different methods for triangle, rectangle, square, circle, pentagon, hexagon, heptagon, octagon, ellipse.
5. Draw orthographic projection	Draw projections of lines in simple positions
	Draw projections of lamina in simple positions
	Draw projections of solids like cube, pyramid, prism, cone, cylinder in first angle position
	Draw projections of solids like cube, pyramid, prism, cone,

**NSQF QUALIFICATION FILE**

**Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020**

	cylinder in third angle position
6. Draw different sizes of Bricks and Brick Masonry.	<p>Draw isometric view of traditional brick showing frog.</p> <p>Drew different types of bats and closers in isometric view</p> <p>Perform drawing of English bond for one brick thick and one and half brick thick with plan, elevation and isometric view (a) Perform drawing of Flemish bond for one brick thick and one and half brick thick with plan, elevation and isometric view</p> <p>Prepare drawing for different types of bonds like zig zag bond, diagonal bond, stretcher bond, header bond, monk wall bond, herring bone bond, Dutch bond, garden all bond</p>
7. Draw different types of Stone Masonry.	<p>Draw coursed and uncoursed rubble masonry.</p> <p>Draw random Rubble Masonry.</p> <p>Draw different types of ashlar masonry.</p> <p>Draw composite masonry with stone facing with brick, stone facing with concrete.</p>
8. Draw different types of Foundation.	<p>Analyze data for creating foundation drawing of specific project.</p> <p>Sketch different types of Pile Foundation.</p> <p>Draw details of Raft Foundation.</p> <p>Perform sketch of Spread Foundation.</p> <p>Sketch grillage foundation.</p>
9. Draw different Carpentry Joints.	<p>Sketch Lengthening Spliced or longitudinal Joints.</p> <p>Draw types of Bearing joint commonly used.</p> <p>Draw various types of widening or side joints.</p> <p>Draw types of Corner Joints.</p> <p>Sketch types of oblique- shouldered joints</p>
10. Draw different types of Wooden Doors and Windows.	<p>Interpret the purpose and utility of doors.</p> <p>Draw details of a door frame.</p> <p>Draw details of Flush Door.</p> <p>Sketch details of Battened and ledged Door.</p> <p>Draw parts of wooden paneled door.</p> <p>Determine scope of windows in building.</p> <p>Draw details of Casement windows.</p> <p>Sketch of Louvered or Venetian Window.</p> <p>Draw details of ventilator</p>



## NSQF QUALIFICATION FILE

Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020

11. Draw different types of Lintels.	Understand purpose of Lintels and Chajja.
	Draw Wooden Lintel in place.
	Draw Brick lintel in position. (a) Draw Reinforced Lintel
	Draw Stone lintel.
	Draw RCC lintel in position.
12. Draw different types of Arches.	Determine utility of Arches.
	Draw various parts of Arch with technical leveling.
	Draw a Flat Arch.
	Draw Semi-circular arch.
	Draw Segmental Arch.
	Drawing of pointed Arch.
	Draw two Centre Arch.
13. Draft in CAD	Understanding the basic starting procedures in CAD
	Analyzing the basic CAD commands
	Draft a plan and elevation of a 3-seater sofa / 1 seater sofa
	Draft a plan of chair
	Draft elevation of door
	Drafting plan of interiors of bedroom/living room with all furniture layout
14. Draw details of Damp proof Course (DPC) and Water Proofing Treatment at different locations.	Identify sources of dampness in different locations.
	Identify effects of dampness. (i) Draw Damp Proof Treatment in Basement. (ii) Draw Damp Proof Treatment in Plinth Level / Ground Floors. (iii) Draw Damp Proof Treatment in Upper Floors. (iv) Draw Damp Proof Treatment in cavity wall.
	Discover sources of water seepage in roof.
	Identify effects of water seepage.
	Draw detail of water proofing treatment at roof using PCC.
	Draw detail of water proofing treatment at roof using bitumen.
15. Draw plan, elevation and side view of Solids in inclined positions and Section of Solids.	Draw plan, elevation and side elevation of inclined solids cube.
	Draw plan, elevation and side elevation of inclined solids pyramid.
	Draw plan, elevation and side elevation of inclined solids prism.
	Draw plan, elevation and side elevation of inclined solids cone.



**NSQF QUALIFICATION FILE**

**Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020**

	Draw plan, elevation and side elevation of inclined solids cylinder.
	Check the drawings to confirm their correctness.
	Draw sectional plan, elevation and side elevation of solids/ inclined solids cutting by a horizontal section plane.
	Draw sectional plan, elevation and side elevation of solids/ inclined solids cutting by a vertical section plane.
	Draw sectional plan, elevation and side elevation of solids/ inclined solids cutting by a section plane inclined to HP
	Draw sectional plan, elevation and side elevation of solids/ inclined solids cutting by a section plane inclined to VP.
	Draw the true shape of the cutting surface.
16. Illustrate design procedure of Residential Building.	Illustrate Client's requirements.
	Analyze the physical condition of proposed site.
	Analyze the environmental condition of proposed site.
	Follow the Building Byelaws according to local administration.
	Analyze design Principles of a residential Building.
	Determine Circulation space in building.
	Identify the Entry and Exit requirements of Residential Building.
	Analyze requirement of Car Parking.
	Check the drawings to confirm their correctness.
Calculate estimated cost.	
17. Draw plan, elevation and section through toilet of the residential building and the site plan with landscape.	Analyze the requirement of no. of bedroom of the Residential Buildings.
	Analyze the requirement of area/ type of drawing and dining hall.
	Analyze the requirement of no. and area of toilet.
	Analyze the requirement of area and type of kitchen.
	Analyze the requirement of area and location of verandah.
	Draw ground Floor Plan of a single storied Residential Building.
	Draw roof Plan of the Residential Building.
	Draw front and side elevation of the Residential Building.
	Draw section through entrance, balcony, toilet, doors and windows of the Residential Building.
Check the drawings to confirm their correctness.	
18. Draw typical vertical section of an external wall of two	Draw typical vertical section of an external wall of two storied load bearing structure.
	Draw typical vertical section of an external wall of two storied

**NSQF QUALIFICATION FILE**

**Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020**

storied load bearing structure and RCC framed structure.	RCC framed structure.
	Check the drawings to confirm their correctness.
19. Draw Plan, elevation and Construction Details of different types of stairs.	Draw plan and section of a straight stair.
	Draw plan and section of an open well stair.
	Draw plan and section of a quarter turn stair.
	Draw plan and section of a bifurcated stair
	Draw plan and section of a circular stair.
	Draw detailed part section of a stair showing its various components.
	Draw detailed part section of a wooden stair.
	Draw detailed plan and section of a dog legged RCC stair.
	Draw plan and section MS. spiral stair.
	Check the drawings to confirm their correctness.
20. Draw different types of flooring details.	Draw Flooring details of Ground Floor over PCC floor slab using different floor finish material.
	Draw Flooring details of Basement Floor over RCC Basement Slab using different floor finish material.
	Draw flooring details of RCC Upper Floor using different floor finish material.
	Draw flooring details of wooden suspended Floor using different floor suitable finish material.
	Draw flooring details of wooden double Floor using different floor suitable finish material.
21. Produce final project work applying advance CAD commands and File management.	Application of advance CAD commands e.g. layers, block, insert, group, divide, measure, design center, text gradient, dimension style, leader, layouts, model space view ports.
	Determine the location of the drawing files to be saved.
	Draft all Final Floor Plans of the Residential Building in AUTO CAD.
	Draft Front Elevation and one side elevation of building.
	Draw two numbers of Through Sections showing Staircase, Toilet, Kitchen Balcony, Habitable room and Car Parking in AUTO CAD.
	Site Plan with rendering.
	Draw Key/ Location Plan.
	Check the drawings to confirm their correctness.
22. Surface	Develop surface of different prisms and pyramids in simple

**NSQF QUALIFICATION FILE**

**Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020**

Development of geometrical solids.	position cutting by horizontal plane.
	Develop surface of different prisms and pyramids in simple position cutting by vertical plane.
	Develop surface of different prisms and pyramids in simple position cutting by plane inclined to HP.
	Develop surface of different prisms and pyramids in simple position cutting by a plane inclined to VP.
	Develop surface of different prisms and pyramids inclined to VP cutting by horizontal plane.
	Develop surface of different prisms and pyramids inclined to VP simple position cutting by vertical plane.
<b>SECOND YEAR</b>	
23. Illustrate Design-Concept and visualization of design. Topic: Residential (single/double storied) Post office, Farmhouse	Make Bubble diagram showing the through circulated areas one way, two way.
	Elements of schematic drawing. Its standard sizes and area required around for movement
	Follow the Building Byelaws according to local administration.
	Analyze requirement of Car Parking.
	Presentation drawing show the details of furniture layout, entrance exit, north point, split levels, built-up area, carpet area, common area.
24. Draw sanction drawing with local authority bye laws.	Draw sanction drawing showing floor plans site plan, location plan, plumbing details, rainwater harvest, schedule of areas, schedule of openings, architects signature, client signature, north point.
	Check the drawings to confirm their correctness.
25. Preliminary drawing of the Design project in AUTOCAD.	Draw ground Floor Plan of a single storied Residential Building.
	Draw typical floor plan with staircase
	Draw roof Plan of the Residential Building.
	Draw front and side elevation of the Residential Building.
	Draw section through entrance, balcony, toilet, doors and windows of the Residential Building.
	Draw enlarged details at roof terrace.
	Draw rendered site plan with landscape.
	Check the drawings to confirm their correctness.
26. Read and Interpret structural drawing.	Draw R.C.C roof one-way slab in plan.
	Draw one-way slab section
	Draw two-way slab, section.

**NSQF QUALIFICATION FILE**

**Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020**

	Draw single reinforced beam
	Draw double reinforced beam.
	Illustrate column foundation plan, section detail.
	Prepare stairs waist slab reinforcement details.
27. Draw 3 D model by sketch up software along with rendering, walkthrough animated view	<p>Draw 3D animated view with help of sketch up software</p> <p>Project submission with sky, trees presentation.</p> <p>(a) Import drawing from Auto CAD.</p> <p>(b) Tools. click drag-release</p> <p>(c) Extrude (push/pull), grouping, layers, arc-2 point, shapes –rectangle, move, orbit ,zoom, pan</p> <p>(d) Auto fold, offset, make component, copy array</p> <p>(e) Solid tools, paint bucket, follow me. mirror scale, rotate</p> <p>(f) Sand box—terrain, smooove, drape, add detail, from contour, from scratch, shadow, fog, f lip edge, explode.</p> <p>(g) Camera, walkthrough, animated view by setting time.</p> <p>(h) View, axes, text light effects—omni, spot, sphere, led light, print option, hide/unhide classifier, intersect faces.</p>
28. Draw details of different types of doors.	<p>Discover special doors as per special requirement,</p> <p>Draw details of revolving door.</p> <p>Draw details of sliding door.</p> <p>Draw details of louvered door/puja door.</p> <p>Identify the metal doors as per design.</p> <p>Draw details of rolling steel shutter.</p> <p>Draw details of aluminium swing door.</p> <p>Draw collapsible door, M.S door,</p>
29. Draw details of different types of windows	<p>Discover special windows</p> <p>Draw bay window.</p> <p>Draw details of dormer window, sky light.</p> <p>Draw aluminium sliding windows.</p> <p>Draw UPVC windows.</p> <p>Draw CRCA sheets/pressed steel windows.</p>
30. Draw details of roofs and roof covering.	<p>Draw details of lean-to roof.</p> <p>Draw couple roof.</p> <p>Draw king post truss with details and technical terms.</p> <p>Draw queen post truss.</p> <p>Determine roof covering materials.</p> <p>Method of fixing AC/GI sheets to different types of purlins</p>

**NSQF QUALIFICATION FILE**

**Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020**

	Method of fixing mangaloretiles .
31.Prepare final design drawings in AUTOCAD.	<p>Draft all Final Floor Plans of the Residential Building in AUTO CAD.</p> <p>Draft Front Elevation and one side elevation of building.</p> <p>Draw two numbers of through Sections showing Staircase, Toilet, Kitchen Balcony, Habitable room and Car Parking in AUTO CAD.</p> <p>Check the drawings to confirm their correctness.</p>
32.Draw working drawing set to the site to execution.	<p>After friezing /finalizing scheme drawing with column position Centre line drawing with beam c/c dimensions.</p> <p>Draw detailed column footing with dimension.</p> <p>Draw Ground Floor Plan with Door Window schedule, I split levels with dimension.</p> <p>Draw First Floor Plan with Staircase design.</p> <p>Draw elevations in 1:50 scale.</p> <p>Draw detailed section through staircase, floor heights, lintel, sill heights.</p> <p>Draw enlarged stair design along with railing, balcony railing</p> <p>Draw compound wall detail.</p>
33.Draw the Anthropometrics & ergonomics of commercial building.	<p>Draw the Furniture design, its standard sizes and area required around for movement and height of Office Layout</p> <p>sketch the office lay out for 50 number staff</p> <p>Draw the office cabin for Managing Director.</p> <p>Draw the reception lay out.</p> <p>Draw the working area lay out.</p> <p>Check the drawings to confirm their correctness.</p>
34.Draw Standard sizes of outdoor movements like swimming pool, basketball court, badminton court, play area etc.	<p>Analyze data for creating swimming pool and draw the layout of swimming pool along with safety measurements.</p> <p>Draw the basketball court / badminton court.</p> <p>Sketch the layout, the play area of primary school.</p> <p>Check the drawings to confirm their correctness.</p>
35.Prepare design and site plan with landscape of Residential	<p>Read and interpret design data after analyzing the requirement and area analysis.</p> <p>Illustrate Client's requirements. sketch the bubble diagram.</p> <p>Identify the Entry and Exit requirements of Residential</p>

**NSQF QUALIFICATION FILE**

**Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020**

Apartment/primary school in AUTOCAD	Building.
	Analyze requirement of Car Parking. Draw stilt /basement/car parking detailed drawing along with drainage, plumbing, water purification tanks. Determine Circulation space and draw detailed drawing of floor plans of building.
	Check the drawings to confirm their correctness.
	Sketch the four side elevations.
	Draw section through staircase and toilet.
	Draw site plan with landscape layout.
36. Draw joints in structures (viz. Details of construction joints at various positions, Details of expansion joints in walls, roof)	Location of construction joints for different members. (a) Draw construction joint installation at slabs, columns beam and walls after the day work.
	Illustrate with neat sketches of provision of joints in the following components of reservoir. (a) Draw details at junction between wall and floor. (b) Draw details of construction joint in the floor of reservoir.
	Draw details of different types of joints in structure. (a) Isolation joint in detail (b) Contraction joint, Dummy joint. (c) Sliding joint,
	Draw plan showing location of contraction, expansion and isolation joints.
	Illustrate Expansion joints in walls and roofs, spacing of expansion joints, materials used in expansion joints brick masonry (a) Draw plan showing location of expansion joint between two building blocks. (b) section 'x-x' detail and enlarged detail at walls, roof, foundation of brick masonry walls (c) Draw plan showing expansion joint in verandah slab with blown up details
	Draw detailed layout of provision of expansion joint in framed structure at (a) Roof level (b) First floor level (c) Foundation level
	Check the drawings to confirm their correctness.
37. Prepare 3D model	Create 3D model from 2D plan.



**NSQF QUALIFICATION FILE**

**Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020**

and BOQ using BIM software (REVIT ARCHITECTURE)	Interpret the basic starting procedure like installation, Unit conversion etc.
	Explore the User Interface: Menu Bar and Toolbars, Options Bar, Type Selector, Properties Button, Design Bar, Project Browser, Status Bar, View Control Bar, Drawing Area etc.
	Place and modify walls
	Complex walls
	Draw scheme in revit architecture( Creating 3D model from 2D plane) (a) Place Door window and components with dimension and constraints. (b) Create floors and Roof & ceilings (C) Curtain walls (d) Stairs Structural elements (f) Massing and site (Splitting, merging, topo surface etc), and conceptual models (g) Family creation (Doors & Windows, staircase, furniture etc)
	Creating and Documenting the Project: Create and name a project in which you will create the building model. (a) Add tags to the project and schedule doors and rooms. (b) Create a colour scheme of the drawings with colours fill &Color Scheme Legend (C) Import and Export (Auto CAD files) (d) Manage Views (Plan region, plan view, ceiling plan, area plan & structural plan, Callout views) (e) Sections (f) Design options
	Generate surfaces and apply material to the model: Generate 3D model from 2D plan and apply material Decals
	Create Lighting, Camera view and rendering: (a) Render drawing. (b) place Camera & Lightings (C) Solar study and Walkthrough
	Prepare bill of Quantity : (a) Calculate Quantity of materials Prepare Schedule (Bill of materials, Quantities etc)
	38.Perform rendering

**NSQF QUALIFICATION FILE**

**Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020**

in Photoshop (Convert the drawings in pdf and then render it in photoshop with necessary details)	photoshop with necessary details.
	Identify the basic features of Photoshop: Getting Started, Interface Layout, Palettes, Toolbox, Selection Tools, Alteration Tools, Drawing and Selection Tools, Assisting Tools, Color Boxes and Modes, Basic Image Editing and Saving.
	Import PDF Floor plans and render it with colours, textures and necessary details.
	Import an architectural elevation, section drawings and render in Photoshop.
	Complete the 3D view of a building with graphical representations (Sky, Trees, Human, Automobiles etc.)
39. Prepare Working drawing: Kitchen layout, Electrical layout, Plumbing Layout, DWV details	Draw kitchen layout details: include plan, section and all side elevations with proper dimensions and material specification.
	Draw the electrical layout of a working drawing floor plan with the proper symbols, dimensions, and notations.
	Draw Plumbing Layout drawing, shows the system of piping for fresh water going into the building and waste going out, water supply system, drainage system, Legends, Notes. Fixture units also should be marked along with the pipe. Pipes with different purposes will be displayed with different colors for ease of understanding. Drainage pipes should be shown with slope, manhole schedule which consist of each manhole name, Depth etc.
	Draw the plan and elevation of DWV details with the specification, location and schedules of the openings.

LEARNING OUTCOME (CORE SKILL)	
LEARNING OUTCOME	ASSESSMENT CRITERIA
<b>EMPLOYABILITY SKILLS</b>	
1. Apply safe working practices	Follow and maintain procedures to achieve a safe working environment in line with occupational health and safety regulations and requirements and according to site policy.
	Recognize and report all unsafe situations according to site policy.
	Identify and take necessary precautions on fire and safety hazards and report according to site policy and



## NSQF QUALIFICATION FILE

Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020

	procedures.
	Identify, handle and store / dispose of dangerous goods and substances according to site policy and procedures following safety regulations and requirements.
	Identify and observe site policies and procedures in regard to illness or accident.
	Identify safety alarms accurately.
	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.
	Identify and observe site evacuation procedures according to site policy.
	Identify Personal Protective Equipment (PPE) and use the same as per related working environment.
	Identify basic first aid and use them under different circumstances.
	Identify different fire extinguisher and use the same as per requirement.
2. Comply with environment regulation and housekeeping	Identify environmental pollution & contribute to the avoidance of instances of environmental pollution.
	Deploy environmental protection legislation & regulations
	Take opportunities to use energy and materials in an environmentally friendly manner.
	Avoid waste and dispose waste as per procedure
	Recognize different components of 5S and apply the same in the working environment.
3. Interpret & use formal and technical communication.	Obtain sources of information and recognize information.
	Use and draw up technical drawings and documents.
	Use documents and technical regulations and occupationally related provisions.
	Conduct appropriate and target oriented discussions with higher authority and within the team.
	Present facts and circumstances, possible solutions & use English special terminology.
	Resolve disputes within the team.
	Conduct written communication.

**NSQF QUALIFICATION FILE**

**Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020**

4. Apply the concept in productivity & quality management in day to day work to improve productivity & quality.	Explain the concept of productivity and apply during execution of job.
	Explain the concept of quality tools and apply during execution of job.
5. List and interpret various acts of labour welfare legislation.	Explain basic concept of labour welfare legislation, adhere to responsibilities and remain sensitive towards such laws.
	Knows benefits guaranteed under various acts.
6. Explain energy conservation, global warming and pollution and contribute in day to day work by optimally using available resources.	Explain the concept of energy conservation, global warming, pollution and utilize the available resources optimally & remain sensitive to avoid environment pollution.
	Explain standard procedure for disposal of waste.
7. Explain personnel finance, entrepreneurship and manage/organize related task in day to day work for personal & societal growth.	Explain personnel finance and entrepreneurship.
	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 familiarize with the policies/ programmes, procedure & the available scheme.
	Prepare a report to become an entrepreneur for submission to financial institutions.
8. Utilize computer applications and internet to take benefit of IT developments in the industry.	Explain the basic hardware of personal computer.
	Use common application software viz., word, excel, power point etc., in day to day work.
	Awareness about useful internet websites, search relevant information pertaining to the assigned tasks.
<b>WORKSHOP CALCULATION &amp; SCIENCE</b>	
1. Demonstrate mathematical concept and principles to perform practical	Solve different problems like phase angle, etc. with the help of a calculator.
	Demonstrate conversion of Fraction to Decimal and vice versa.

## NSQF QUALIFICATION FILE

Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020

operations.	Explain BCD code, conversion from decimal to binary and vice-versa, all other conversions.
2. Explain science in the field of study including simple machine.	<p>Explain concept of basic science related to the field such as Material science, Mass, weight, density, speed, velocity, heat &amp; temperature, force, motion, pressure, heat treatment, centre of gravity, friction.</p> <p>Explain levers and its types.</p> <p>Explain relationship between Efficiency, velocity ratio and Mechanical Advantage.</p> <p>Prepare list of appropriate materials by interpreting detail drawings and determine quantities of such materials.</p> <p>Solve simple problems on lifting tackles like crane- Solution of problems with the aid of vectors.</p>

NSQC Approved

## NSQF QUALIFICATION FILE

Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020SECTION 2

## 25. EVIDENCE OF LEVEL

## OPTION A

Title/Name of qualification/component: ARCHITECTURAL DRAUGHTSMAN			Level: 5
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relate to the NSQF level descriptors	NSQF Level
Process	<p><b>Requires Well Developed Skill, with clear choice of procedures in familiar context</b></p> <ul style="list-style-type: none"> <li>• Draw typical vertical section of an external wall of two storied load bearing structure and RCC framed structure.</li> <li>• Draw different types of architectural symbols.</li> <li>• Draw different sizes of Bricks and Brick Masonry.</li> <li>• Draw Plan, elevation and Construction Details of different types of stairs.</li> </ul>	<p>The learner requires demonstrating a well-developed skill for example 'Draw different types of architectural symbols.' and 'Draw typical vertical section of an external wall of two storied load bearing structure and RCC framed structure.' as indicated in the learning outcomes to achieve the tolerance levels and accuracy demanded as per the job.</p> <p>The learner requires applying clear choice of procedures in familiar context as indicated in the learning outcomes. In all these learning outcomes the learner has to apply one's knowledge and decide what needs to be done to either meet the client's requirement or identify a fault and decide how to rectify it or plan as per requirements and resources available.</p>	5

## NSQF QUALIFICATION FILE

Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020

Title/Name of qualification/component: ARCHITECTURAL DRAUGHTSMAN			Level: 5
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relate to the NSQF level descriptors	NSQF Level
		Hence NSQF Level is 5 for this descriptor.	
Professional knowledge	<p><b>Knowledge of facts in the field of work or study</b></p> <ul style="list-style-type: none"> <li>• Doors, Windows, Arches</li> <li>• Damp proof course (DPC)</li> <li>• Anti termite treatment</li> </ul> <p><b>Knowledge of Principles and general concepts in the field of work or study</b></p> <ul style="list-style-type: none"> <li>• Design principles – balance, proportion, perspective, movement, rhythm, harmony, unity, symmetry and contrast.</li> </ul>	<p>The learner requires to demonstrate knowledge of facts, principles, processes and general concepts, in this field of work or study which is related to Architectural Symbols, Sketching Techniques, Types of projections, Foundation, Carpentry Joints etc.</p> <p>The learner requires demonstrating knowledge of design principles – balance, proportion, perspective, movement, rhythm, harmony, unity, symmetry and contrast; study of the structural</p>	5

## NSQF QUALIFICATION FILE

Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020

Title/Name of qualification/component: ARCHITECTURAL DRAUGHTSMAN			Level: 5
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relate to the NSQF level descriptors	NSQF Level
	<ul style="list-style-type: none"> <li>• Conceptual design ideas.</li> </ul> <p><b>Knowledge of processes in the field of work or study</b></p> <ul style="list-style-type: none"> <li>• Expansion joints and construction joints.</li> <li>• Green Architecture / sustainable architecture.</li> <li>• Energy conservation.</li> </ul>	<p>drawing etc.</p> <p>Hence NSQF Level is 5 for this descriptor.</p>	
Professional skill	<ul style="list-style-type: none"> <li>• Draw orthographic projections.</li> <li>• Draw 3D model by sketch up software along with rendering, walkthrough, animated view.</li> <li>• Draw different types of flooring details.</li> <li>• Illustrate Design-Concept and visualization of design. Topic: Residential (single/double storied), Post office, Farmhouse.</li> <li>• Draw different types of Foundation.</li> </ul>	<p>In the learning outcomes for example 'Draw orthographic projections', 'Draw 3D model by sketch up software along with rendering, walkthrough, animated view.' the learner requires cognitive and practical skills to accomplish the above tasks. It involves understanding requirements; then as per requirements deciding which equipment / operation/procedure/tool will achieve desired result. It requires planning the sequence of operations to maximize effectiveness; constantly checking and reviewing plan, etc, all of which involve problem solving and decision-making abilities.</p> <p>Hence NSQF Level is 5 for this descriptor</p>	5

## NSQF QUALIFICATION FILE

Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020

Title/Name of qualification/component: ARCHITECTURAL DRAUGHTSMAN			Level: 5
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relate to the NSQF level descriptors	NSQF Level
Core skill	<p><b>Desired Mathematical Skills</b></p> <ul style="list-style-type: none"> <li>• Explain science in the field of study including simple machine.</li> </ul> <p><b>Understanding of social/political</b></p> <ul style="list-style-type: none"> <li>• Explain personnel finance, entrepreneurship and manage/organize related task in day to day work for personal &amp; societal growth.</li> </ul> <p><b>Organizing information and communication</b></p> <ul style="list-style-type: none"> <li>• Interpret &amp; use formal and technical communication.</li> </ul>	<p>The learning outcomes for example 'Explain personnel finance, entrepreneurship and manage/organize related task in day to day work for personal &amp; societal growth ' and 'Interpret &amp; use formal and technical communication' are the learning outcomes where the learner needs to display desired mathematical skill; understanding of social, political; and some skill of collecting and organizing information, communication.</p> <p>Hence NSQF Level is 5 for this descriptor.</p>	5
Responsibility	<ul style="list-style-type: none"> <li>• Produce final project work applying advance CAD commands and File management.</li> <li>• Surface Development of geometrical solids.</li> <li>• Read and Interpret structural drawing.</li> <li>• Draw details of different types of doors.</li> </ul>	<p>The learner is expected to perform the work as per norms and specifications and apply their own analysis of what needs to be done based on their understanding of various architectural symbols, Sketching techniques, types of projections, isometric view, brick/stone masonry etc. related processes, principles and standards.</p> <p>Thus, the learner is responsible for own work and learning, as well as takes some</p>	5

## NSQF QUALIFICATION FILE

Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020

Title/Name of qualification/component: ARCHITECTURAL DRAUGHTSMAN			Level: 5
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relate to the NSQF level descriptors	NSQF Level
		responsibility of other's work and learning. Hence NSQF Level is 5 for this descriptor	

NSQC Approved



## NSQF QUALIFICATION FILE

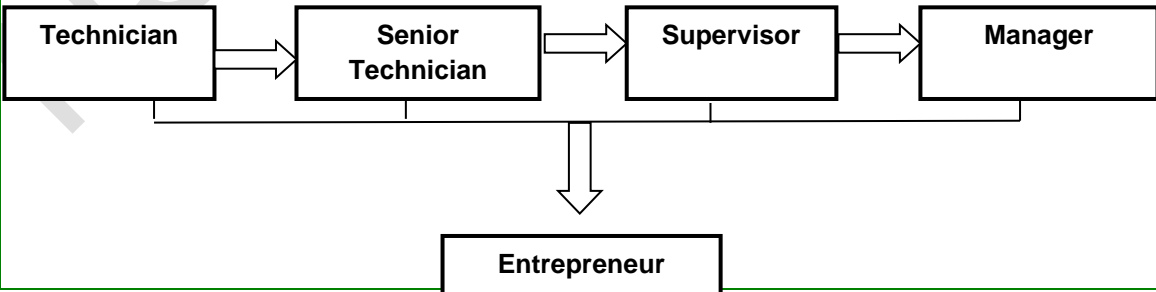
Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020**SECTION 3****EVIDENCE OF NEED**

26	<p><b>What evidence is there that the qualification is needed? What is the estimated uptake of this qualification and what is the basis of this estimate?</b></p> <table border="1" data-bbox="331 521 1378 1666"> <thead> <tr> <th data-bbox="331 521 619 663"><b>Basis</b></th> <th data-bbox="619 521 1378 663"><b>In case of other Awarding Bodies (Institutes under Central Ministries and states departments)</b></th> </tr> </thead> <tbody> <tr> <td data-bbox="331 663 619 1043">Need of the qualification</td> <td data-bbox="619 663 1378 1043"> <p><b>Construction</b> Sector has a significant presence of organized as well as unorganized skilled manpower requirement. This sector is poised to grow exponentially in the years to come and is highly labor intensive and there are many emerging trends in this sector. Hence the qualification has been designed keeping in view to cater to the ever-increasing demand of skilled manpower in consultation with stakeholders.</p> </td> </tr> <tr> <td data-bbox="331 1043 619 1469">Industry Relevance</td> <td data-bbox="619 1043 1378 1469"> <p>The job role defined for the qualification is as per the National Classification of Occupations 2015 which is developed by Employment Directorate under the ministry of Labour and Employment in collaboration with different industry partners and as per ILO guidelines. Moreover, the training is imparted in ITIs/ NSTIs/ MSTIs/ BTC/ BTPs/ Industries / Establishments etc. where such requirement is available. This justifies the qualification is very much relevant for industry.</p> </td> </tr> <tr> <td data-bbox="331 1469 619 1597">Usage of the qualification</td> <td data-bbox="619 1469 1378 1597"> <p>The Proposed qualification will create skilled Technician for various establishments in different Sectors.</p> </td> </tr> <tr> <td data-bbox="331 1597 619 1666">Estimated uptake</td> <td data-bbox="619 1597 1378 1666"> <p>The present seating capacity is 494.</p> </td> </tr> </tbody> </table>	<b>Basis</b>	<b>In case of other Awarding Bodies (Institutes under Central Ministries and states departments)</b>	Need of the qualification	<p><b>Construction</b> Sector has a significant presence of organized as well as unorganized skilled manpower requirement. This sector is poised to grow exponentially in the years to come and is highly labor intensive and there are many emerging trends in this sector. Hence the qualification has been designed keeping in view to cater to the ever-increasing demand of skilled manpower in consultation with stakeholders.</p>	Industry Relevance	<p>The job role defined for the qualification is as per the National Classification of Occupations 2015 which is developed by Employment Directorate under the ministry of Labour and Employment in collaboration with different industry partners and as per ILO guidelines. Moreover, the training is imparted in ITIs/ NSTIs/ MSTIs/ BTC/ BTPs/ Industries / Establishments etc. where such requirement is available. This justifies the qualification is very much relevant for industry.</p>	Usage of the qualification	<p>The Proposed qualification will create skilled Technician for various establishments in different Sectors.</p>	Estimated uptake	<p>The present seating capacity is 494.</p>
<b>Basis</b>	<b>In case of other Awarding Bodies (Institutes under Central Ministries and states departments)</b>										
Need of the qualification	<p><b>Construction</b> Sector has a significant presence of organized as well as unorganized skilled manpower requirement. This sector is poised to grow exponentially in the years to come and is highly labor intensive and there are many emerging trends in this sector. Hence the qualification has been designed keeping in view to cater to the ever-increasing demand of skilled manpower in consultation with stakeholders.</p>										
Industry Relevance	<p>The job role defined for the qualification is as per the National Classification of Occupations 2015 which is developed by Employment Directorate under the ministry of Labour and Employment in collaboration with different industry partners and as per ILO guidelines. Moreover, the training is imparted in ITIs/ NSTIs/ MSTIs/ BTC/ BTPs/ Industries / Establishments etc. where such requirement is available. This justifies the qualification is very much relevant for industry.</p>										
Usage of the qualification	<p>The Proposed qualification will create skilled Technician for various establishments in different Sectors.</p>										
Estimated uptake	<p>The present seating capacity is 494.</p>										
27	<p><b>Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences.</b></p> <p>The qualification originally designed for Craftsman Training Scheme is in existence for many years and approved by DGT (Regulatory Body) under Ministry of Skill Development and Entrepreneurship, Govt. of India.</p>										

**NSQF QUALIFICATION FILE****Approved in 24<sup>th</sup> NSQC Dated 27<sup>th</sup> Feb, 2020**

28	<p><b>What steps were taken to ensure that the qualification(s) does (do) not duplicate already existing or planned qualifications in the NSQF? Give justification for presenting a duplicate qualification</b></p> <p>The qualification is originally designed and approved by DGT for the Craftsman Training Scheme and is in existence for many years. No such duplicate qualification of same duration and competencies exists.</p>
29	<p><b>What arrangements are in place to monitor and review the qualification(s)? What data will be used and at what point will the qualification(s) be revised or updated? Specify the review process here</b></p> <ul style="list-style-type: none"> <li>• The research wing of CSTARI &amp; DGT reviews and updates the qualification, in consultation with industries and other stakeholders, on a regular basis by conducting trade committee meetings.</li> <li>• DGT will monitor any duplicity by comparing existing qualifications with upcoming ones in the National Qualifications Register (NQR) and relevant sectors.</li> </ul>

**SECTION 4****EVIDENCE OF PROGRESSION**

30	<p><b>What steps have been taken in the design of this or other qualifications to ensure that there is a clear path to other qualifications in this sector? Show the career map here to reflect the clear progression</b></p> <p>On completion of the training the trainee will have an opportunity to move in vertical/horizontal pathways to promote to higher designations. The learner can further undergo other specialised courses to excel in the relevant field.</p>  <pre> graph LR     A[Technician] --&gt; B[Senior Technician]     B --&gt; C[Supervisor]     C --&gt; D[Manager]     A --- E[Entrepreneur]     B --- E     C --- E     D --- E </pre>
----	--