

NSQF QUALIFICATION FILE

Approved in 24th NSQC Dated 27th Feb, 2020

NSDA Code

2020/CON/DGT/03686

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

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

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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.

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d) Distribution of training duration into theory/practical/OJT component: Indicated in the curriculum.

2. Curriculum for Core Skills (Workshop calculation & science, Engineering Drawing and Employability Skills)

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- SUMMARY

1	Qualification Title	'MASON (BUILDING CONSTRUCTOR)'
2	Qualification Code, if any	DGT/1035
3	NCO code and occupation	7112.0200 - Bricklayer, Construction 9313.0301 - Helper Mason 7112.0201 - Plumbing Mason 7112.0400 - Paviour 7112.0601 - Assistant Mason 7115.0201 - Assistant Shuttering Carpenter 7114.9900 - Concrete Placers, Concrete Finishers and Related workers 7123.0100 - Plasterer 7112.0100 - Stone Mason 7122.0100 - Tile Setter
4	Nature and purpose of the qualification (Please specify whether qualification is short term or long term)	Prepare skilled Technician to undertake the job roles of Mason (Building Constructor) lays brick with mortar and other construction material to construct and repair building walls, arches, chimneys, floors, pillars and other structures for factories, business, residential premises etc. It is long term qualification.
5	Body/bodies which will award the qualification	Directorate General of Training (DGT).
6	Body which will accredit providers to offer courses leading to the qualification	Directorate General of Training (DGT) accredits the Training providers (ITIs/ NSTIs/MSTIs/BTCs/BTPs / Industries / Establishments).
7	Whether accreditation/affiliation norms are already in place or not , if applicable (if yes, attach a copy)	Yes. The accreditation/ affiliation norms and any amendments made from time to time are available on DGT web portal.
8	Occupation(s) to which the qualification gives access	<ul style="list-style-type: none"> Bricklayer, Construction Helper Mason Plumbing Mason Paviour Assistant Mason Assistant Shuttering Carpenter Concrete Placers, Concrete Finishers and Related workers

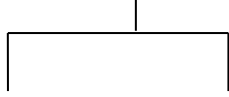
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		<ul style="list-style-type: none"> • Plasterer • Stone Mason • Tile Setter 																					
9	Job description of the occupation	Mason (Building Constructor) lays brick with mortar and other construction material to construct and repair building walls, arches, chimneys, floors, pillars and other structures. The learner is responsible for site development and clearance, makes support for laying of bricks and blocks, mortar and cement concrete mixing, rendering coat plastering, work related to plumbing, knowledge of scaffolding and have the basic knowledge of environment, health and safety pertaining to the trade.																					
10	Licensing requirements	NOT REQUIRED																					
11	Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)	NOT APPLICABLE																					
12	Level of the qualification in the NSQF	Level 4																					
13	Anticipated volume of training/learning required to complete the qualification	<table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Course Element</th> <th>Notional Training Hours</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Professional Skill (Trade Practical)</td> <td>1000</td> </tr> <tr> <td>2</td> <td>Professional Knowledge (Trade Theory)</td> <td>280</td> </tr> <tr> <td>3</td> <td>Workshop Calculation & Science</td> <td>80</td> </tr> <tr> <td>4</td> <td>Engineering Drawing</td> <td>80</td> </tr> <tr> <td>5</td> <td>Employability Skills</td> <td>160</td> </tr> <tr> <td></td> <td>Total</td> <td>1600</td> </tr> </tbody> </table>	Sl. No.	Course Element	Notional Training Hours	1	Professional Skill (Trade Practical)	1000	2	Professional Knowledge (Trade Theory)	280	3	Workshop Calculation & Science	80	4	Engineering Drawing	80	5	Employability Skills	160		Total	1600
Sl. No.	Course Element	Notional Training Hours																					
1	Professional Skill (Trade Practical)	1000																					
2	Professional Knowledge (Trade Theory)	280																					
3	Workshop Calculation & Science	80																					
4	Engineering Drawing	80																					
5	Employability Skills	160																					
	Total	1600																					
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 8 th Class Examination. Minimum age 14 years as on first day of academic session																					
16	Progression from the qualification (Please show	An Individual can proceed for:																					

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	Professional and academic progression)	Professional <ul style="list-style-type: none"> • Technician • Senior Technician • Supervisor • Manager • Entrepreneur 	Technical / Academic 	
17	Arrangements for the Recognition of Prior learning (RPL)	Yes (For more details refer “Guidelines for Private candidate” in DGT website MIS portal).		
18	International comparability where known (research evidence to be provided)	-----		
19	Date of planned review of the qualification.	5 Yrs from the Date of Approval		
20	Formal structure of the qualification			
	Mandatory components			
	Title of component and identification code/ NOSSs/ Learning outcomes	Estimated size (learning hours)		Level
		Skills	Knowledge	
	<u>TRADE SPECIFIC</u>			
(i)	Perform wood work with carpenter's tools following safety precautions.	100	28	3
(ii)	Plan and organize the work to make masonry brick wall as per drawing and specification applying different types of tools, materials and check for dimensional accuracy.	150	42	4
(iii)	Construct wall leaving space for door & window opening.	25	7	4
(iv)	Perform R.C.C casting, rod cutting in different sizes, bending, binding & placing. Mixing & compaction of Concrete with different proportions.	50	14	4
(v)	Perform Construction of cavity wall.	25	7	4

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(vi)	Perform Laying out of building plan, diagonal check-up, fixing up of excavation lines.	50	14	4
(vii)	Perform Wall & ceiling plastering with application of mortar, smoothing the surface by using of screeds & floats.	75	21	4
(viii)	Make different types of floor with determination and formation of Slope.	50	14	4
(ix)	Lay drain pipe, jointing, fittings & fixing of W.C. pan, urinals, gully trap. Construction of manhole etc.	100	28	4
(x)	Construct septic tank.	25	7	4
(xi)	Perform fixing & fittings of wash basin, flushing cistern, sink, vent pipe, etc.	25	7	4
(xii)	Construct stone wall with cutting, chamfering, bevelled etc.	50	14	4
(xiii)	Lay marble on floor & stair with marking, cutting & complete setting.	50	14	4
(xiv)	Construct circular brick wall & hollow block walls.	50	14	4
(xv)	Prepare & mix of concrete, formwork, cutting & bending of bar, casting of roof slab, beams, lintels, stair, column etc.	75	21	4
(xvi)	Cut & set glazed tiles to walls.	50	14	4
(xvii)	Lay mosaic, terrazzo & tile flooring.	25	7	4
(xviii)	Perform Construction of R.C.C. & Brick stairs.	25	7	4
CORE SKILLS				
EMPLOYABILITY SKILLS				
(i)	Apply safe working practices.	---	20	4
(ii)	Comply with environment regulation and housekeeping.	---	20	4
(iii)	Interpret & use formal and technical communication.	---	20	4
(iv)	Apply the concept in productivity & quality management in day to day	---	20	4

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	work to improve productivity & quality.			
(v)	List and interpret various acts of labour welfare legislation.	---	20	4
(vi)	Explain energy conservation, global warming and pollution and contribute in day to day work by optimally using available resources.	---	20	4
(vii)	Explain personnel finance, entrepreneurship and manage/organize related task in day to day work for personal & societal growth.	---	20	4
(viii)	Utilize basic computer applications and internet to take benefit of IT developments in the industry.	---	20	4
WORKSHOP CALCULATION & SC				
(i)	Demonstrate basic mathematical concept and principles to perform practical operations.	---	40	4
(ii)	Explain basic science in the field of study including simple machine.	---	40	4
ENGINEERING DRAWING				
(i)	Read and apply engineering drawing for different application in the field of work.	---	80	4
Total			1600	

NSQF QUALIFICATION FILEApproved in 24th NSQC Dated 27th Feb, 2020**SECTION 1****ASSESSMENT**

21	<p>Body/Bodies which will carry out assessment: Controller of Examinations, DGT</p>
22	<p>How will RPL assessment be managed and who will carry it out? 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 concerned State.</p>

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	<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>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.</p> <p>(1) Assessment process:</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 and initiating formative discussions to assess understanding and by evaluating records and reports. Summative assessment is carried out by All</p>

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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
1	Summative Assessment	Practical	250
2		Trade Theory	100
3		Employability Skills	50
4		Workshop Calculation and Science.	50
5		Engineering Drawing	50
6	Formative assessment based on Learning Outcomes		200
TOTAL:			700

(2) Minimum pass marks 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

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the defined learning outcomes and assessment criteria. The trainees may 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, Engineering Drawing 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, Engineering Drawing 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
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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.

ASSESSMENT CRITERIA

LEARNING OUTCOME (TRADE SPECIFIC)	
LEARNING OUTCOMES	ASSESSMENT CRITERIA
1. Perform wood work with carpenter's tools following safety precautions.	Identify the woods and character.
	Identify the Carpenter's hand Tools.
	Prepare the job as per drawing.
	Observe safety procedure during wood cutting, sawing, chiselling, planning as per standard norms and procedures.
	Check and verify the job as per drawing.
2. Plan and organize the work to make masonry brick wall as per drawing and specification applying different types of tools, materials and check for	Identify mason's tools, instruments and equipments and Plan for marking and make this available for use in a timely manner.
	Select raw material and visual inspect for defects.
	Mark as per specification applying desired mathematical calculation and observing standard procedure.

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dimensional accuracy.	Perform basic handling of brick, rotating of bricks in one hand and as per specification to make the job.
	Make a simple construction of different type of Brick joints with mortar.
	Observe safety procedure during above operation as per standard norms and procedures.
	Check for dimensional accuracy as per standard procedure.
	Avoid waste, ascertain unused materials and components for disposal, store these in an environmentally appropriate manner and prepare for disposal.
3. Construct wall leaving space for door & window opening.	Study drawing, Identify the door and window opening.
	Mark space for door & window.
	Make desired space for door & window during masonry work.
	Check the opening space as per Drawing.
4. Perform R.C.C casting, rod cutting in different sizes, bending, binding & placing. Mixing & compaction of Concrete with different proportions.	Read and interpret the drawing.
	Identify required Mason's hand tools.
	Cut rods as per size with cutting tools.
	Bend bar (rod) as per drawing with bar bending die.
	Check the measurement of bar as per drawing.
	Bind rods with proper hand tools as per drawing.
	Identify the equipment for mixing concrete.
	Mix up simple concrete as per specified ratio.
	Laying of concrete and compact as per procedure.
	Observe safety procedure during concreting.
	Check and verify the job as per drawing.
5. Perform Construction of cavity wall.	Identify different types of Mason's hand tools.
	Identify the Construction materials.
	Plan for cavity wall construction.
	Make a cavity wall in brick Masonry work.
	Check & verify the job as per drawing.
6. Perform Laying out of building plan, diagonal check-up, fixing up of excavation lines.	Identify different types of Mason's hand tools & equipment's for laying out.
	Set right angle on the ground following proper method.
	Laying out the building plan.
	Check the diagonal.
	Mark excavation lines as per Drawing.
	Check & verify the work as per drawing.

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7. Perform wall & ceiling plastering with application of mortar, smoothing the surface by using of screeds & floats.	Identify different types of plastering tools.
	Make scaffolding as per requirement.
	Prepare mortar in specified proportions.
	Apply mortar on wall surface & ceiling.
	Make plaster work.
	Observe safety procedure during plaster.
8. Make different types of floor with determination and formation of Slope.	Identify different types of floors.
	Identify different types of tools required for flooring.
	Determine slope and make floor accordingly.
	Check and verify the job as per requirements.
9. Lay drain pipe, jointing, and fittings & fixing of W.C. pan, urinals, gully trap. Construction of manhole etc.	Plan for the desired work and identify tools, instrument and equipment for marking and make this available for use on a timely manner.
	Select and Prepare raw materials, fittings, etc. and visually inspect for defects.
	Mark the position to fix the fittings.
	Set up a W.C pan & urinals.
	Construct a gully trap, manhole.
	Observe safety points on above work as per standard norms and guidelines.
10. Construct septic tank.	Read and interpret the drawing.
	Mark the position of septic tank for excavation.
	Construct Septic tank conforming PWD norms.
	Check bonding & waterproofing of tank walls.
	Perform lining field drains with bricks.
	Check and verify the work as per standard norms and guidelines.
11. Perform fixing & fittings of wash basin, flushing cistern, sink, vent pipe, etc.	Plan for the work and select the tools, instrument and equipment for the Fixing & fittings of wash basin, flushing cistern, sink, vent pipe, etc.
	Mark the position and fix fittings e.g. wash basin, flushing cistern, sink, vent pipe, etc. observing standard procedure and method.
	Check and verify the work as per standard norms and guidelines.
12. Construct stone wall with cutting, chamfering, bevelled etc.	Identify tools, instrument and equipment's for marking, cutting and make this available for use in a timely manner.
	Measure and cut stone & chamfer as required.

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	Construct stone masonry wall.
	Check for finishing and dimensional accuracy as per standard procedure.
13. Lay marble on floor & stair with marking, cutting & complete setting.	Plan and identify tools and equipment for marking, cutting and make this available for use in a timely manner.
	Select raw materials and inspect visually for defect.
	Measure, mark and cut marble as required.
	Lay marble on floor and stair.
	Observe safety procedure during above work as per standard norms.
	Check for finishing and dimensional accuracy as per standard procedure.
14. Construct circular brick wall & hollow block walls.	Plan for the work and arrange materials, tools and equipment for circular / hollow brick work.
	Prepare bricks as required in circular / hollow brick wall.
	Construct circular / hollow block wall.
	Check for finishing and dimensional accuracy as per standard procedure.
15. Prepare & mix of concrete, formwork, cutting & bending of bar, casting of roof slab, beams, lintels, stair, column etc.	Read and interpret the drawing.
	Make shuttering and formwork with proper support.
	Perform cutting & bending of bar & bind them as per measurement and drawing.
	Perform levelling and check measurement criteria.
	Mix concrete and cast roof slab, beams, lintels, stair, column etc. as per measurement and drawing.
	Observe safety procedure during above work as per standard norms.
16. Cut & set of glazed tiles to walls.	Plan for the work and arrange for raw material and different types of plastering, pointing & tile setting tools.
	Prepare wall surface and mortar in specified proportions.
	Perform pointing to wall and apply mortar on wall surface.
	Marking & Cutting of glazed tiles as per requirement.
	Set glazed tiles to wall and fill joints.
	Check for finishing and dimensional accuracy.
17. Lay mosaic, terrazzo & tile flooring.	Plan for the work and arrange for raw material and different types of tile setting tools.
	Prepare floor surface and mortar in specified proportions.
	Perform levelling to floor applying mortar on floor surface.

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	Marking & Cutting of floor tiles.
	Setting of tiles on floor.
	Check for finishing and dimensional accuracy.
18. Perform Construction of R.C.C. & Brick stairs.	Read and interpret the drawing.
	Make shuttering and formwork with proper support.
	Perform cutting & bending of bar & bind them as per measurement and drawing.
	Perform levelling and check measurement criteria.
	Mix concrete and cast R.C.C stair or perform construction of brick stair as per measurement and drawing.
	Observe safety procedure during above work as per standard norms.

LEARNING OUTCOME(CORE SKILL)	
LEARNING OUTCOMES	ASSESSMENT CRITERIA
EMPLOYABILITY SKILLS	
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 procedures.
	Identify, handle and store / dispose off 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.

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	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.
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,	Explain personnel finance and entrepreneurship.

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entrepreneurship and manage/organize related task in day to day work for personal & societal growth.	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 basic 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.
WORKSHOP CALCULATION & SCIENCE	
1. Demonstrate basic mathematical concept and principles to perform practical operations.	Solve different problems like phase angle, etc. with the help of a calculator.
	Demonstrate conversion of Fraction to Decimal and vice versa.
	Explain BCD code, conversion from decimal to binary and vice-versa, all other conversions.
2. Explain basic science in the field of study including simple machine.	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.
	Explain levers and its types.
	Explain relationship between Efficiency, velocity ratio and Mechanical Advantage.
	Prepare list of appropriate materials by interpreting detail drawings and determine quantities of such materials.
	Solve simple problems on lifting tackles like crane- Solution of problems with the aid of vectors.
ENGINEERING DRAWING	
1. Read and apply engineering drawing for different application in the field of work.	Read & interpret the information on drawings and apply in executing practical work.
	Read & analyse the specification to ascertain the material requirement, tools and assembly/maintenance parameters.
	Encounter drawings with missing/unspecified key information and make own calculations to fill in missing dimension/parameters to carry out the work.

NSQF QUALIFICATION FILE

Approved in 24th NSQC Dated 27th Feb, 2020

SECTION 2

25. EVIDENCE OF LEVEL

OPTION A

Title/Name of qualification/component: Mason (Building Constructor)		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Process	<p>Work in familiar, predictable, routine, situation of clear choice</p> <ul style="list-style-type: none"> • Plan and organize the work to make masonry brick wall as per drawing and specification applying different types of tools, materials and check for dimensional accuracy. • Perform Laying out of building plan, diagonal check-up, fixing up of excavation lines. • Perform Wall & ceiling plastering with application of mortar, smoothing the surface by using of screeds & floats. • Lay marble on floor & stair with marking, cutting & complete setting. • Cut & set of glazed tiles to walls. • Lay mosaic, terrazzo & tile flooring. 	<p>In the learning outcomes for example 'Plan and organize the work to make masonry brick wall as per drawing and specification applying different types of tools, materials and check for dimensional accuracy' and 'Perform Wall & ceiling plastering with application of mortar, smoothing the surface by using of screeds & floats.'</p> <p>The learner is required to select appropriate tools, instruments, equipment and procedures for performance of masonry work.</p> <p>The job however will be done with well-defined, routine work and situation of clear choice of procedures in a familiar context to achieve the desired accuracy.</p>	4

MASON (BUILDING CONSTRUCTOR)

NSQF QUALIFICATION FILE

Approved in 24th NSQC Dated 27th Feb, 2020

Title/Name of qualification/component: Mason (Building Constructor)		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
		Hence NSQF Level is 4 for this descriptor.	
Professional knowledge	<p>Factual knowledge of field of knowledge or study</p> <ul style="list-style-type: none"> • Importance of safety and general precautions required for the trade. • Technical terms used in brick masonry. • Cross wall-method of construction. • Architectural terms used in connection with classical mouldings such as architrave, apex, etc. • Types of external & internal finishes such as rough cast, pebble, dash and stucco-materials used. • Foundation: Definition, purpose, types, important terms, causes of failure of foundations. 	<p>The learner will need to be well versed with the basic facts, process and principle knowledge of Building Construction and layout for example, 'Cross wall-method of construction.' and 'Architectural terms used in connection with classical mouldings such as architrave, apex, etc.' The learner should have the knowledge of safety and general precautions required for the trade, technical terms used in brick masonry, foundation structures etc.</p> <p>Hence NSQF Level is 4 for this descriptor.</p>	4
Professional skill	<ul style="list-style-type: none"> • Perform wood work with carpenter's tools following safety precautions. • Plan and organize the work to make masonry brick wall as per drawing and 	<p>The learner needs to recall and demonstrate practical skill, routine and repetitive in narrow range of application, using appropriate rule and tool as per the job given to them. The learner</p>	4

MASON (BUILDING CONSTRUCTOR)

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NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<p>specification. applying different types of tools, materials and check for dimensional accuracy.</p> <ul style="list-style-type: none"> • Construct wall leaving space for door & window opening. • Perform R.C.C casting, rod cutting in different sizes, bending, binding & placing. Mixing & compaction of Concrete with different proportions. • Perform Construction of cavity wall. 	<p>should have the skill to prepare various types of brick wall as per drawing and specification, perform R.C.C casting, rod cutting in different sizes, bending, binding & placing etc.</p> <p>The learner will have to use quality tools to check the work and ensure conformance to requirements of the job. Hence NSQF Level is 4 for this descriptor.</p>	
Core skill	<p>Basic Mathematical and Algebraic principles</p> <ul style="list-style-type: none"> • Demonstrate basic mathematical concept and principles to perform practical operations. • Understand and explain basic science in the field of study including simple machine. • Read and apply engineering drawing for different application in the field of work. <p>Basic understanding of social political and natural environment</p> <ul style="list-style-type: none"> • Explain energy conservation, global 	<p>The learning outcomes for example 'Demonstrate basic mathematical concept and principles to perform practical operations' and 'Understand and explain basic science in the field of study including simple machine ' display the learning outcomes where the learner needs to display basic mathematical and algebraic principles; understanding of social, political; and some skill of collecting and organising information, communication.</p> <p>Hence NSQF Level is 4 for this descriptor.</p>	4

MASON (BUILDING CONSTRUCTOR)

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NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<p>warming and pollution and contribute in day to day work by optimally using available resources.</p> <ul style="list-style-type: none"> • Explain personnel finance, entrepreneurship and manage/organize related task in day to day work for personal & societal growth. <p>Language to communicate written or oral, with required clarity</p> <ul style="list-style-type: none"> • Interpret & use formal and technical communication. • List and interpret various acts of labour welfare legislation. 		
Responsibility	<ul style="list-style-type: none"> • Construct wall leaving space for door & window opening. • Perform R.C.C casting, rod cutting in different sizes, bending, binding & placing. Mixing & compaction of Concrete with different proportions. • Construct septic tank. • Construct stone wall with cutting, 	The Mason (Building Constructor) is independently responsible to construct wall, leave space for opening of door and window, perform R.C.C casting, rod cutting in different sizes, bending and placing, mix compaction of concrete with different proportions, construct circular brick wall , hollow wall etc.	4

MASON (BUILDING CONSTRUCTOR)

NSQF QUALIFICATION FILE

Approved in 24th NSQC Dated 27th Feb, 2020

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NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<p>chamfering, bevelled etc.</p> <ul style="list-style-type: none">• Construct circular brick wall & hollow block walls.	Hence NSQF Level is 4 for this descriptor.	

NSQF QUALIFICATION FILE

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

26	<p>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?</p> <table border="1" data-bbox="293 521 1457 1664"> <thead> <tr> <th data-bbox="293 521 675 663">Basis</th> <th data-bbox="675 521 1457 663">In case of other Awarding Bodies (Institutes under Central Ministries and states departments)</th> </tr> </thead> <tbody> <tr> <td data-bbox="293 663 675 1043">Need of the qualification</td> <td data-bbox="675 663 1457 1043">Construction 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 labour 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.</td> </tr> <tr> <td data-bbox="293 1043 675 1469">Industry Relevance</td> <td data-bbox="675 1043 1457 1469">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.</td> </tr> <tr> <td data-bbox="293 1469 675 1592">Usage of the qualification</td> <td data-bbox="675 1469 1457 1592">The Proposed qualification will create skilled Technician for various establishments in different Sectors.</td> </tr> <tr> <td data-bbox="293 1592 675 1664">Estimated uptake</td> <td data-bbox="675 1592 1457 1664">The present seating capacity is approximately 4004.</td> </tr> </tbody> </table>	Basis	In case of other Awarding Bodies (Institutes under Central Ministries and states departments)	Need of the qualification	Construction 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 labour 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.	Industry Relevance	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.	Usage of the qualification	The Proposed qualification will create skilled Technician for various establishments in different Sectors.	Estimated uptake	The present seating capacity is approximately 4004.
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Usage of the qualification	The Proposed qualification will create skilled Technician for various establishments in different Sectors.										
Estimated uptake	The present seating capacity is approximately 4004.										
27	<p>Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences.</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>										
28	<p>What steps were taken to ensure that the qualification(s) does (do) not</p>										

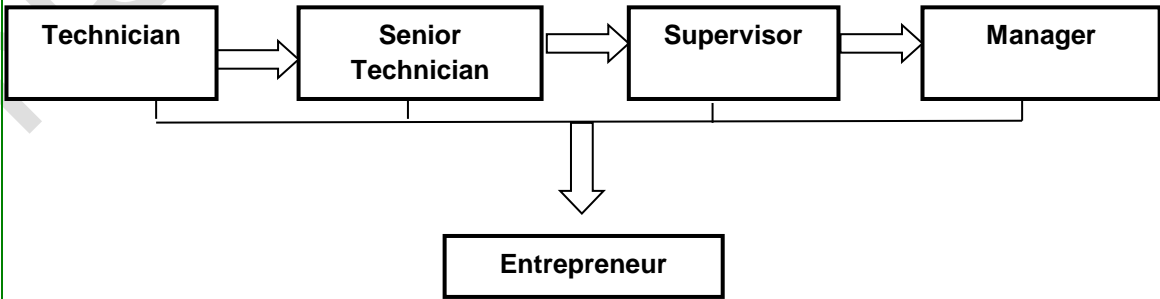
NSQF QUALIFICATION FILE

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	<p>duplicate already existing or planned qualifications in the NSQF? Give justification for presenting a duplicate qualification</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>
<p>29</p>	<p>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</p> <ul style="list-style-type: none"> • The research wing of CSTARI & DGT reviews and updates the qualification, in consultation with industries and other stakeholders, on a regular basis by conducting trade committee meetings. • DGT will monitor any duplicity by comparing existing qualifications with upcoming ones in the National Qualifications Register (NQR) and relevant sectors.

SECTION 4

EVIDENCE OF PROGRESSION

<p>30</p>	<p>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</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] --> B[Senior Technician] B --> C[Supervisor] C --> D[Manager] B --> E[Entrepreneur] </pre>
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