

**NSDA Code**

**2020/TEXT /DGT/03742**

**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.

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

**2. Curriculum for Core Skills (Employability Skills).**

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**e) SUMMARY**

<b>1</b>	<b>Qualification Title</b>	<b>'Weaving Technician for Silk &amp; Woolen Fabrics'</b>
<b>2</b>	<b>Qualification Code, if any</b>	<b>DGT/1100</b>
<b>3</b>	<b>NCO code and occupation</b>	2141.1500 – Weaving Master
<b>4</b>	<b>Nature and purpose of the qualification (Please specify whether qualification is short term or long term)</b>	<p>Prepare skilled craftsman to undertake the job roles of Weaving Technician for Silk &amp; Woolen Fabrics and will enable the trainee to assists in organizing and controlling weaving of clothes, calendaring and process preparatory to weaving such as winding, warping, sizing, etc.</p> <p>It is along term qualification.</p>
<b>5</b>	<b>Body/bodies which will award the qualification</b>	Directorate General of Training (DGT).
<b>6</b>	<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).
<b>7</b>	<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>
<b>8</b>	<b>Occupation(s) to which the qualification gives access</b>	<ul style="list-style-type: none"> <li>• 2141.1500 – Weaving Master</li> </ul>
<b>9</b>	<b>Job description of the occupation</b>	<p>The Individual prepares bobbin &amp; cone and carries out the operation of drafting, denting, gaiting up of looms &amp; finishing of silk &amp; woolen fabrics; Operates primary motions, secondary motions and auxiliary motions in weaving machines. He/she assists in analyzing the different patterns adopted in weaving of silk and woolen fabrics; assists in estimation of cost of folded yarn and calculation of conversion table for yarn count; prepares jacquard design on graph papers and harness mounting and card cutting to produce different structure of</p>

## NSQF QUALIFICATION FILE

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

### Weaving Technician for Silk & Woolen Fabrics

		woven fabric etc.															
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 3															
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>1200</td> </tr> <tr> <td>2</td> <td>Professional Knowledge (Trade Theory)</td> <td>240</td> </tr> <tr> <td>3</td> <td>Employability Skills</td> <td>160</td> </tr> <tr> <td></td> <td><b>Total</b></td> <td><b>1600</b></td> </tr> </tbody> </table>	Sl. No.	Course Element	Notional Training Hours	1	Professional Skill (Trade Practical)	1200	2	Professional Knowledge (Trade Theory)	240	3	Employability Skills	160		<b>Total</b>	<b>1600</b>
		Sl. No.	Course Element	Notional Training Hours													
		1	Professional Skill (Trade Practical)	1200													
		2	Professional Knowledge (Trade Theory)	240													
		3	Employability Skills	160													
	<b>Total</b>	<b>1600</b>															
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 8th class examination. Minimum age 14years as on first day of academic session.															
16	Progression from the qualification (Please show Professional and academic progression)	An Individual can proceed for:															
		<table border="1"> <thead> <tr> <th>Professional</th> <th>Technical / Academic</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> <li>Craftsman</li> <li>Senior Craftsman</li> <li>Supervisor</li> <li>Manager</li> <li>Entrepreneur</li> </ul> </td> <td> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">                     10<sup>th</sup>/ Diploma/ Advance Diploma (Vocational)                 </div> </td> </tr> </tbody> </table>	Professional	Technical / Academic	<ul style="list-style-type: none"> <li>Craftsman</li> <li>Senior Craftsman</li> <li>Supervisor</li> <li>Manager</li> <li>Entrepreneur</li> </ul>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">                     10<sup>th</sup>/ Diploma/ Advance Diploma (Vocational)                 </div>											
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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	<b>Date of planned review of the qualification.</b>	5 Yrs. from the Date of Approval		
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)	Identify the types of operation of the weaving machine used in the industry with the raw materials used following safety precaution.	60	12	3
(ii)	Identify the different types of fibre, yarn and its characteristics.	60	12	3
(iii)	Identify and select the parts of loom, Perform and monitor the operation.	120	24	3
(iv)	Prepare and work on bobbin and cone and carry out the operation of drafting, denting, gaiting up of looms.	150	30	3
(v)	Identify and operate primary motions, secondary motions and auxiliary motions in weaving machines.	60	12	3
(vi)	Identify the causes and remedies in Woolen fabric defects.	120	24	3
(vii)	Assist in analyzing the different patterns adopted in weaving of silk and woolen fabrics.	30	06	3
(viii)	Apply the methods of finishing, dyeing and printing of silk and woolen fabrics.	30	06	3

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(ix)	Assist in plan, design plain weave, twill and satin with the draft and peg plan.	60	12	3
(x)	Assist to estimate the cost of folded yarn and calculation of conversion table for yarn count.	120	24	3
(xi)	Identify different parts of power loom, salient features of power loom and tuning of loom for Woolen fabrics.	90	18	3
(xii)	Identify & select working of various dobby and jacquard motion.	90	18	3
(xiii)	Prepare jacquard design on graph papers and harness mounting and card cutting to produce different structure of woolen fabric.	90	18	3
(xiv)	Prepare different types of weft insertion system for various shuttleless loom.	60	12	3
(xv)	Identify the defects, causes and remedies of silk and Woolen fabrics.	30	06	3
(xvi)	Carry out finishing of silk and Woolen fabrics	30	06	3
<b>CORE SKILL</b>				
<b>EMPLOYABILITY SKILLS</b>				
(i)	Apply safe working practices.	-	20	3
(ii)	Comply with environment regulation and housekeeping.		20	3
(iii)	Interpret & use formal and technical communication.		20	3
(iv)	Apply the concept in productivity & quality management in day to day work to improve productivity & quality.		20	3
(v)	List and interpret various acts of labour welfare legislation.		20	3
(vi)	Explain energy conservation, global warming and pollution and contribute in day to day work by optimally using available resources.		20	3

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(vii)	Explain personnel finance, entrepreneurship and manage/organize related task in day to day work for personal & societal growth.		20	3
(viii)	Utilize basic computer applications and internet to take benefit of IT developments in the industry.		20	3
	<b>Total</b>		<b>1600</b>	

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**SECTION 1**  
**ASSESSMENT**

<b>21</b>	<b>Body/Bodies which will carry out assessment:</b> Controller of Examinations, DGT
<b>22</b>	<b>How will RPL assessment be managed and who will carry it out?</b> DGT will carry out the RPL assessment following the below mentioned eligibility criteria for Trainee: 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: Category I: Ex-trainees (successful pass-outs) of ITI 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. (Refer Annexure III for list of allied trades) 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. II. Category II: 'Ex-trainees (successful pass-outs) and current trainees under CoE scheme 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. Mapping of CoE trades, with that of regular CTS trades is provided in Annexure IV. CoE candidates must register as 'Private Candidate' under CTS in the relevant/mapped CTS trade only. 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. C. During this gap of 1 year, the candidate must have undergone Industry training or gained experience in desired trade in establishments



	<p>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 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' (Refer Annexure V).</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 updated information please refer to DGT web portal.</p>
<p><b>23</b></p>	<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> The assessment for the qualification is carried out by conducting formative assessments, and end of year examinations (Summative). The formative</p>

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 India Trade Test on Trade Theory, Trade practical 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
6	Formative assessment based on Learning Outcomes		200
TOTAL:			600

**(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 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 and Employability Skills.
- While Trade Theory and Trade Practical are used for assessing Trade-related jobs 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 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 No.	Terminal Competency	Maximum Weightage
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		(%)
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.

**LEARNING OUTCOME WITH ASSESSMENT CRITERIA:**

SPECIFIC LEARNING OUTCOME	
LEARNING OUTCOME	ASSESSMENT CRITERIA
1. Identify the types of operation of the weaving machine used in the industry with the raw materials used following safety precaution.	Identify all parts like pirn, shuttle, cone, picker, swell, sley, picking stick, race board, reed, heald frame, heald eye, heald wire, shedding tappet, picking tappet, bottom shaft, crank shaft in a weaving machinery. Select yarn count, cone weight, pirn weight, length tolerance, various types of knots and splices.
	Cleaning the weaving machine.
	Operate the machinery.
	Frequently check the machine condition.
	Identify basic faults of machinery and rectify.
	Follow up of continuous maintenance schedule.
2. Identify the different types of fibre, yarn and its characteristics.	Identify all types of fibres and their physical and chemical properties.
	Familiarizing with the technical terms pertaining to yarn and yarn count.
	Knowing the testing equipments for yarn testing.
	Testing the count of different types of yarn and their properties.
3. Identify and select the parts of loom, perform and monitor the operation.	Monitor & Evaluate the reed count and heald count
	Identify and select various parts of different looms.
	Perform on various frame loom.
	Identify different types of shuttles, parts and uses.
4. Prepare and work on bobbin, cone and carry out the operation of drafting, denting, gaiting up of looms.	Follow safety precautions.
	Identify all packages like bobbin, cone and beam.
	Explain facts of defects and their remedies in bobbin, cone and beam.
	Prepare knotting and tying devices.
	Work on warping machine parts like creel, expandable comb, tensioning devices, stop motions and beam winding.
	Identify the parts of sizing machine like creel, size box, drying cylinders, leasing rods, reed and headstock.
	Clean of the warping and sizing machine.
	Operate the warping and sizing machine.
	Check the machines condition.
	Identify basic faults of machinery and rectify.

	Follow up of continuous maintenance schedule.
	Engage the beam through drafting, denting and gaiting up with loom.
	Identify and select the sizing ingredients.
	Select the size recipe according to the nature of fibre.
5. Identify and operate primary motions, secondary motions and auxiliary motions in weaving machines.	Identify the parts involved in primary motions, secondary motions and auxiliary motions in weaving machines.
	Perform and demonstrate various motions in weaving machines.
	Prepare different designs for silk and woolen fabrics.
6. Identify the causes and remedies in woolen fabric defects.	Find various defects arising in woven fabrics.
	Find out causes of defects in fabrics.
	Carry out the remedial measures to avoid the defective fabrics.
	Select and apply remedial measures.
	Testing of yarn. Its importance and test's procedure adopted.
	Identify instruments used for testing of yarn, single yarn tester, yarn tester, for evenness.
7. Assist in analyzing the different patterns adopted in weaving of silk and woolen fabrics.	Identify different patterns adopted in weaving of silk and woolen fabrics.
	Apply different patterns adopted in weaving of silk and woolen fabrics.
	Analyze different patterns adopted in weaving of the silk and woolen fabrics.
	Follow & Observe safety precaution.
8. Apply the methods of finishing, dyeing and printing of silk and woolen fabrics.	Select and apply the suitable finishing process required for silk and woolen fabrics.
	Practice Degumming of silk and Dyeing.
	Practice Printing of Woolen fabrics.
9. Assist in plan, design plain weave, twill and satin with the draft and peg plan.	Identify, select and prepare simple design like plain weave, twill & satin with their draft & peg plan
	Prepare different designs on graph papers.
	Design plain weave and its Ornamentation.
	Show derivatives of plain weave continued, regular pointed zig zag, herring-bone and broken twill etc.

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10. Assist to estimate the cost of folded yarn and calculation of conversion table for yarn count.	Calculate cost of folded yarn adopting IS : 3689 - 1966. Conversion factors and calculation of conversion table for yarn counts.
	Identify Counting system and calculation involved.
	Explain Counting system in spun silk rayon raw silk, woolen yarn and union yarn.
	Determine counts, weight of short length of yarn , count of short length of yarn.
11. Identify different parts of power loom, salient features of power loom and tuning of loom for woolen fabrics.	Determine counts of folded yarn (Resultant count) of same length.
	Identify all parts like pirn, shuttle, cone, picker, swell, sley, picking stick, race board, reed, heald frame, heald eye, heald wire, shedding tappet, picking tappet, bottom shaft, crank shaft in a weaving machinery.
	Identify and select various components of the power loom and their function.
	Compare special features of power loom.
12. Identify & select working of various dobby and jacquard motion.	Perform tuning of loom for woolen fabrics.
	Identify the parts involved in primary motions, secondary motions and auxiliary motions in weaving machines.
	Describe Principles of dobby and their different types.
	Explain principles of preparing the dobby chain and pegs insertion in the wooden lags and demonstrate working of various dobby.
13. Prepare jacquard design on graph papers and harness mounting and card cutting to produce different structure of woolen fabric.	Identify different types of Jacquard and their uses.
	Demonstrate working of Jacquard.
	Apply principles of jacquard and identify its different types.
	Plan and Prepare jacquard design on graph papers and harness mounting and card cutting.
14. Prepare different types of weft insertion system for various shuttle less	Prepare design on graph papers using satin weaves.
	Construction of satin weaves, regular and irregular.
14. Prepare different types of weft insertion system for various shuttle less	Explain production calculation and the parameters influencing the efficiency of the weaving machines.
	Prepare and design on graph papers using different weaves such as broken corkscrew and combine twill.



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loom.	Estimate the Production and efficiency calculation of machine.
	Maintain the shuttle less looms and different types of weft insertion system
	Apply air jet, water jet, rapier, projectile and multiphase weft insertion principles.
15. Identify the defects, causes and remedies of silk and woolen fabrics.	Identify and Check various defects arising in woven fabrics.
	Carry out the remedial measures to avoid the defective fabrics.
	Apply finishing methods of silk fabrics.
16. Carry out finishing of silk and woolen fabrics.	Perform finishing of woolen fabrics
	Demonstrate use of hand milling and calendaring.

<b>LEARNING OUTCOME (CORE SKILL)</b>	
<b>LEARNING OUTCOME</b>	<b>ASSESSMENT CRITERIA</b>
<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 procedures.
	Identify, handle and store / dispose off dangerous goods and substances according to site policy and



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

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productivity & quality management in day to day work to improve productivity & quality.	execution of job.
	Explain the concept of quality tools and apply during execution of job.
<hr/>	
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.
<hr/>	
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.
<hr/>	
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.
<hr/>	
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.

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**SECTION 2**

**25. EVIDENCE OF LEVEL**

**OPTION A**

<b>Title/Name of qualification/component: Weaving Technician for Silk &amp; Woolen Fabrics</b>			<b>Level: 3</b>
<b>NSQF Domain</b>	<b>Outcomes of the Qualification/Component</b>	<b>How the outcomes relates to the NSQF level descriptors</b>	<b>NSQF Level</b>
Process	<p><b>Requires limited range of activities, routine &amp; predictable</b></p> <ul style="list-style-type: none"> <li>Identify the different types of fibre, yarn and its characteristics.</li> <li>Identify and select the parts of loom, Perform and monitor the operation.</li> <li>Prepare and work on bobbin and cone and carry out the operation of drafting, denting, gaiting up of looms.</li> <li>Apply the methods of finishing, dyeing and printing of silk and woolen fabrics.</li> </ul>	<p>The learner is expected to know about the safety measures while working with the machines and attending the operations on each machine; Raw silk testing and quality control; grading of wool with official standards, fineness, length, evaluation of shrinkage, felting of wool etc. He/she knows about different textile fibers, their characteristic; classifications &amp; uses. The learner possess the knowledge of different types of hand looms like pit looms, frame looms etc; relative advantages and disadvantages of throw shuttles and fly shuttle looms.</p> <p>Thus learner possesses the knowledge of basic facts, process &amp; principles applied in this trade.</p> <p>Hence NSQF Level 3 is justified as per the descriptor</p>	3

<b>Title/Name of qualification/component: Weaving Technician for Silk &amp; Woolen Fabrics</b>			<b>Level: 3</b>
<b>NSQF Domain</b>	<b>Outcomes of the Qualification/Component</b>	<b>How the outcomes relates to the NSQF level descriptors</b>	<b>NSQF Level</b>
Professional knowledge	<p><b>Knowledge of Basic facts, process and principle applied in trade of employment</b></p> <ul style="list-style-type: none"> <li>• Various bamboo species and their utilization.</li> <li>• Design intervention on new innovative products.</li> <li>• Process of Weaving Bamboo Mats,</li> <li>• Process of making Bamboo Blinds.</li> <li>• Various methods of finishing techniques.</li> </ul>	<p>The learner is expected to possess the basic knowledge about selection of bamboo as per job specification, free hand drawing of various items, different aspects of drawing. He/she should also know how to make model and mock up, different patterns of Mat and bamboo blinds, selection of Marketable Product, various finishing materials &amp; there uses etc.</p> <p>The above knowledge possessed by the learner are the basic facts, process and principles applied in this trade of employment.</p> <p>Hence NSQF Level 3 is justified for this Descriptor.</p>	3
Professional skill	<ul style="list-style-type: none"> <li>• Identify &amp; select working of various doobby and jacquard motion.</li> <li>• Prepare jacquard design on graph papers and harness mounting and card cutting to produce different structure of woolen fabric.</li> </ul>	<p>After completion of training the learner is able to identify all parts like pirn, shuttle, cone, picker, swell, sley, picking stick, race board, reed, heald frame, heald eye, heald wire, shedding tappetetc. He/she is capable of cleaning the weaving machine, performs frequent checks of machine condition. Identifies different types of fibres, yarn &amp; formation of knots. They are able to use</p>	3

Title/Name of qualification/component: Weaving Technician for Silk & Woolen Fabrics			Level: 3
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<ul style="list-style-type: none"> <li>Prepare different types of weft insertion system for various shuttleless loom.</li> </ul>	<p>various methods for finding out counts of heald and reed.</p> <p>So here the learner recalls and demonstrates practical skills which are routine &amp; repetitive in narrow range of application. Hence NSQF Level 3 is justified for this descriptor.</p>	
Core skill	<p><b>Communication written and oral, with minimum required clarity</b></p> <ul style="list-style-type: none"> <li>Interpret &amp; use formal and technical communication.</li> </ul> <p><b>Basic Arithmetic and algebraic principles</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</li> </ul>	<p>The learner is able to communicate orally &amp; in written using simple English language, has active listening skills. Works as a team player and able to explain technical terms with minimum required clarity. The learner is able to perform basic mathematical calculations like addition, subtraction, multiplication etc. He/she is able to perform the job complying environment regulation and housekeeping by applying safe working practices. Maintains energy conservation, prevents global warming &amp; pollution by optimally using available resources in day to day work.</p>	3

Title/Name of qualification/component: Weaving Technician for Silk & Woolen Fabrics			Level: 3
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	personal & societal growth.	Hence NSQF Level 3 is justified for this descriptor.	
Responsibility	<ul style="list-style-type: none"> <li>Identify the defects, causes and remedies of silk and woolen fabrics.</li> <li>Carry out finishing of silk and woolen fabrics.</li> <li>Assist to estimate the cost of folded yarn and calculation of conversion table for yarn count</li> <li>Identify and operate primary motions, secondary motions and auxiliary motions in weaving machines.</li> </ul>	<p>The learner is able to perform degumming of silk and dyeing, finishing, dyeing &amp; printing of woolen fabrics. He/she designs on graph papers using different weaves such as broken corkscrew and combine twill under close supervision of the supervisor &amp; is responsible for his/her own work within defined limit.</p> <p>The learner is able to recognize &amp; comply safe working practices under close supervision of the supervisor.</p> <p>Therefore NSQF Level 3 is justified for this descriptor.</p>	3

**SECTION 3**

**EVIDENCE OF NEED**

<p><b>26</b></p>	<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="339 555 1390 1697"> <thead> <tr> <th data-bbox="339 555 627 696"> <p><b>Basis</b></p> </th> <th data-bbox="627 555 1390 696"> <p><b>In case of other Awarding Bodies (Institutes under Central Ministries and states departments)</b></p> </th> </tr> </thead> <tbody> <tr> <td data-bbox="339 696 627 1077"> <p>Need of the qualification</p> </td> <td data-bbox="627 696 1390 1077"> <p>Textile and Handloom 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="339 1077 627 1503"> <p>Industry Relevance</p> </td> <td data-bbox="627 1077 1390 1503"> <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="339 1503 627 1630"> <p>Usage of the qualification</p> </td> <td data-bbox="627 1503 1390 1630"> <p>The Proposed qualification will create skilled craftsman for various establishments in different Sectors.</p> </td> </tr> <tr> <td data-bbox="339 1630 627 1697"> <p>Estimated uptake</p> </td> <td data-bbox="627 1630 1390 1697"> <p>The present seating capacity is 84.</p> </td> </tr> </tbody> </table>	<p><b>Basis</b></p>	<p><b>In case of other Awarding Bodies (Institutes under Central Ministries and states departments)</b></p>	<p>Need of the qualification</p>	<p>Textile and Handloom 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>	<p>Industry Relevance</p>	<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>	<p>Usage of the qualification</p>	<p>The Proposed qualification will create skilled craftsman for various establishments in different Sectors.</p>	<p>Estimated uptake</p>	<p>The present seating capacity is 84.</p>
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<p><b>27</b></p>	<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>										



<p><b>28</b></p>	<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>
<p><b>29</b></p>	<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** **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**

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.

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    graph LR
      A[Craftsman] --> B[Senior Craftsman]
      B --> C[Supervisor]
      C --> D[Manager]
      B --> E[Entrepreneur]
  
```

The diagram illustrates a career progression path. It starts with a box labeled 'Craftsman', followed by 'Senior Craftsman', 'Supervisor', and 'Manager' in a horizontal sequence, connected by double-lined arrows pointing to the right. From the 'Senior Craftsman' box, a vertical arrow points downwards to a box labeled 'Entrepreneur'.