

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 (Annexure 1)
2. Advertisements of different organisations for posts relevant to NTC in the trade

Model Curriculum to be added which will include the following:

- **Indicative list of tools/equipment to conduct the training:** Enclosed with curricula
- **Trainers qualification:** Indicated in the curriculum
- **Lesson Plan:** All NCVT 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 with support of Reference Books and IMPs developed by DGT.
- **Distribution of training duration into theory/practical/OJT component:** Indicated in the curriculum.

SUMMARY

1	Qualification Title	'Computer Aided Embroidery & Designing'
2	Qualification Code, if any	DGT/1072
3	NCO code and occupation	8153.0600 – Embroidery-Machine Operator (Semi-Automatic) 8153.0500 – Embroider, Machine 8153.0701 – Framer-Computerized Embroidery Machine
4	Nature and purpose of the qualification (Please specify whether qualification is short term or long term)	National Council for Vocational Training (NCVT) (long term qualification)
5	Body/bodies which will award the qualification	National Council for Vocational Training (NCVT) affiliates the ITIs as per DGT guidelines issued from time to time.
6	Body which will accredit providers to offer courses leading to the qualification	National Council for Vocational Training (NCVT)
7	Whether accreditation/affiliation norms are already in place or not , if applicable (if yes, attach a copy)	Yes. The accreditation/ affiliation norms for all training providers are as per DGT guidelines issued from time to time with approval of NCVT.
8	Occupation(s) to which the qualification gives access	Computer Aided Embroidery & Designing has a wide scope of Employability ranging from self- employment, contractual employment to Industrial jobs. On successful completion of this course, the candidates shall be gainfully employed in the industries for following occupations: <ul style="list-style-type: none"> • Embroidery-Machine Operator (Semi- Automatic) • Embroider, Machine • Framer-Computerized Embroidery Machine
9	Job description of the occupation	Computer Aided Embroidery & Designing operates semiautomatic sewing machine with multiple-sewing heads controlled by pattern chain that embroiders designs on garments or garment parts done through the computerized embroidery machine. Positions garment, places hoop frame on machine bed, starts machine to sew design onto garment, rethreads machine for multi colour designs, monitors the progress and ensure the required quality of embroidery is achieved.
10	Licensing requirements	N/A

11	Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)	N/A																								
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>1260</td> </tr> <tr> <td>2.</td> <td>Professional Knowledge (Trade Theory)</td> <td>252</td> </tr> <tr> <td>3.</td> <td>Employability Skills</td> <td>110</td> </tr> <tr> <td>4.</td> <td>Library & Extracurricular activities</td> <td>58</td> </tr> <tr> <td>5.</td> <td>Project Work</td> <td>160</td> </tr> <tr> <td>6.</td> <td>Revision & Examination</td> <td>240</td> </tr> <tr> <td></td> <td>Total</td> <td>2080</td> </tr> </tbody> </table>	Sl. No.	Course Element	Notional Training Hours	1.	Professional Skill (Trade Practical)	1260	2.	Professional Knowledge (Trade Theory)	252	3.	Employability Skills	110	4.	Library & Extracurricular activities	58	5.	Project Work	160	6.	Revision & Examination	240		Total	2080
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14	Indicative list of training tools required to deliver this qualification	As per Annexure enclosed in the curriculum																								
15	Entry requirements and/or recommendations and minimum age	Passed 10 th class examination under 10+2 System of education																								
16	Progression from the qualification (Please show Professional and academic progression)	<ul style="list-style-type: none"> • Designer • Designer Tailor/ Embroiderer • Pattern Maker • Pattern Master • Advance Pattern Master • Merchandiser • Supervisor 																								
17	Arrangements for the Recognition of Prior learning (RPL)	<ol style="list-style-type: none"> 1. At present the students who have passed 10th class with minimum 3 years' experience in relevant field can appear for NCVT theory and practical semester examination directly. 2. The students who have passed SCVT examination in 'Computer Aided Embroidery & Designing' trade can also appear for the NCVT Examination in the relevant semester and Trade directly. 																								
18	International comparability where known (research evidence to be provided)	<ol style="list-style-type: none"> 1. Existence of any official document suggesting the comparability of the qualification with the qualifications in other countries is not known. 2. However, ITI passed out trainees are getting 																								

	employment in many Gulf countries, European countries, Australia, New Zealand, Singapore etc.		
19	Date of planned review of the qualification.	March 2023	
20	Formal structure of the qualification		
	Mandatory components		
	Title of component and identification code/NOSs/Learning outcomes	Estimated size (learning hours)	Level
Semester - I			
(i)	Apply safe working practices.	40	4
(ii)	Identify and use embroidery tools, machine and operate with safety precautions.	40	4
(iii)	Prepare sample basic hand stitches (Temporary & permanent stitch).	40	4
(iv)	Attain the skill to prepare sample by both the technique (Hand and Machine).	120	4
(v)	Embroidery Design the following with suitable fabric design using coral draw software. (Indian Dresses, Western Dresses)	160	4
(vi)	Set up the machine and machine accessories as per requirement	160	4
(vii)	Identify, select and troubleshoot the machine with proper maintenance procedure	40	4
(viii)	Develop the skill to make computerizes design with the application of software.	240	4
Semester – II			
(ix)	Setup computerized embroidery machine for transferring the image.	80	4
(x)	Run the computerized embroidery machine for all the digitizing process.	560	4
(xi)	Prepare T-shirt used monogramming & logo design.	80	4

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Computer Aided Embroidery & Designing

(xii)	Identify, select and apply the digitizing design and use various techniques e.g. Appliqué work, Sequins work, Taping work, Cording work, Chenille work	120	4
Revision, Project work and Examination		400	4
	Sub Total (A)	2080	4
	Optional components	N/A (All components are compulsory)	
	Title of component and identification code/NOSs/ Learning outcomes	Estimated size (learning hours)	Level
	Sub Total (B)		
<u>Total (A+B)</u>		<u>2080</u>	<u>4</u>

**SECTION 1
ASSESSMENT**

21	<p>Body/Bodies which will carry out assessment: National Council for Vocational Training (NCVT)</p>																				
22	<p>How will RPL assessment be managed and who will carry it out?</p> <ol style="list-style-type: none"> 1. At present the students who have passed 10th class with minimum 3 years' experience can appear for NCVT theory and practical semester examination directly. 2. The students who have passed SCVT examination in 'Computer Aided Embroidery & Designing' trade can also appear for the NCVT Examination in the relevant semester and Trade directly. NCVT will carry out the assessment and State Directorates advertise in newspapers for informing the prospective candidates. 																				
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 semester-based qualification is carried out by conducting formative assessments, and end-of-semester examinations. The internal assessments for theory subjects and practical are conducted by the concerned instructors for evaluating the knowledge and skill acquired by trainees and the behavioural transformation of the trainees. This internal 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, and sessional marks are awarded to them. Theory and practical examinations are conducted in Trade theory and Employability Skills. The question papers for the theory Examinations contain objective type questions. Trade practical examinations are conducted by the respective State Governments. However, the question papers for the Trade practical are prepared by NCVT.</p> <p>The marking pattern and distribution of marks for the qualification are as under:</p> <table border="1" data-bbox="312 1496 1398 2002"> <thead> <tr> <th colspan="3">Marking Pattern</th> </tr> <tr> <th>Sl. No.</th> <th>Subject for the trade test</th> <th>Maximum marks for the each subject</th> </tr> </thead> <tbody> <tr> <td>a)</td> <td>Practical</td> <td>100</td> </tr> <tr> <td>b)</td> <td>Trade Theory</td> <td rowspan="2">80 Objective type Written test of 80 marks (Trade Theory 30 marks & Employability Skills 50 marks)</td> </tr> <tr> <td>c)</td> <td>Employability Skills</td> </tr> <tr> <td>d)</td> <td>Internal assessment</td> <td>20</td> </tr> <tr> <td colspan="2">TOTAL:</td> <td>200</td> </tr> </tbody> </table>	Marking Pattern			Sl. No.	Subject for the trade test	Maximum marks for the each subject	a)	Practical	100	b)	Trade Theory	80 Objective type Written test of 80 marks (Trade Theory 30 marks & Employability Skills 50 marks)	c)	Employability Skills	d)	Internal assessment	20	TOTAL:		200
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c)	Employability Skills																				
d)	Internal assessment	20																			
TOTAL:		200																			

(2) Minimum pass marks:

The minimum pass percentage for practical is 60% & minimum pass percentage of theory subjects is 40%. For the purposes of determining the overall result, 50% weightage is applied to the result of each semester examination.

(3) Testing and certifications for the course:

- OMR sheet based question paper.
- A panel of expert paper setters, who are graduates in the concerned field with minimum 5-7 years experience, is prepared for setting question papers for the Trade. The panel is vetted by the Member Secretary, NCVT.
- Paper setters are appointed from the panel after the approval of the competent authority for setting the question paper.
- The question papers are then moderated by the Board of Moderation to see if the paper is set as per the requirement and syllabus.
- The manuscripts of the moderated question papers are sent to Government Printing Presses for printing.
- Printed question papers, packed in sealed covers, are despatched to Banks/Police Stations for keeping in safe custody.
- The question papers are handed over to the Chairman/Principal of the Testing Centre two hours before the commencement of the Examination.
- An Examination Board consisting of representatives of industry/Employer/State Government are set up to supervise and monitor the conduct of Examinations at every Centre.
- Theory and practical Examinations are carried out with invigilators/examiners with the overall supervision of the Examination Board.
- Examiners called for evaluation of practical should have minimum technical qualification of a Diploma in the respective engineering field. However, when diploma holders not available, the qualification is suitably relaxed.
- Examiners for practical Examinations are appointed preferably from Polytechnics/ Engineering colleges/ Industry of repute/ Government Departments or from amongst retired qualified personnel possessing requisite qualifications and sufficient experience in the trade/discipline.
- Each State Directorate prepares a panel of Examiners according to the norms as mentioned above and the Examiners are appointed from the panel.
- Flying squads from State Governments as well as the Central Government are constituted to check malpractices during the conduct of Examinations.
- OMR based answer sheets are evaluated by the third party evaluator only. Third party evaluator is selected for three years by open bidding process.
- Evaluation of every practical examination is carried out by the concerned examiner (from industry/ polytechnics) with the overall supervision of the Examination Board in a free and fair manner as per the assessment criteria.
- Till 2014, the marks were compiled by the State Governments as per NCVT guidelines and the results were declared by the State Governments. At present, the marks are compiled by NCVT on its portal www.ncvtmis.gov.in and the results are declared by the State Governments.
- The successful trainees are awarded National Trade Certificates.

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 assessable 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 assessable 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 formative discussions to assess understanding and evaluating records and reports. The ultimate objective of the assessment is to assess the candidates as per the defined assessment criteria for the assessable/ 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 and language skills 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
- Evaluation of Theory Examinations is done by third-part agency. Third party evaluator is selected for three years by open bidding process.
- Trade Practical is examined by External Examiner (as explained above).

Please attach most relevant and recent documents giving further information about assessment and/or RPL.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

24. ASSESSMENT EVIDENCE

Means of assessment 1

Assessment will be evidence based comprising the following:

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

Means of assessment 2

Add boxes as required.

Pass/Fail

The minimum pass percentage is 40% for each Theory Examination and 25% for each part/section of the Examination separately, and 60% marks for each Trade practical Examination.

Complete a grid for each component as listed in “Formal structure of the qualification” in the Summary.

NOTE: this grid can be replaced by any part of the qualification documentation which shows the same information – i.e. Learning Outcomes to be assessed, assessment criteria and the means of assessment.

Title of Component: Computer Aided Embroidery & Designing

GENERIC LEARNING/ ASSESSABLE OUTCOME:

Outcomes to be assessed/ NOSs to be assessed	Assessment criteria for the outcome
1. Apply safe working practices	1.1 Follow and maintain procedures to achieve a safe working environment in line with occupational health and safety regulations and requirements, and according to policy.
	1.2 Recognize and report all unsafe situations according to policy.
	1.3 Identify and take necessary precautions on fire and safety hazards and report according to work policy and procedures.
	1.4 Identify, handle and store/ dispose-off dangerous

	goods and substances according to policy and procedures following safety regulations and requirements.
	1.5 Identify and observe policies and procedures with regard to illness or accident.
	1.6 Identify safety alarms accurately.
	1.7 Report supervisor/ competent of authority in the event of accident or sickness of any staff and record accident details correctly according to accident/injury procedures.
	1.8 Identify and observe evacuation procedures according to site policy.
	1.9 Identify Personal Protective Equipment (PPE) and use the same as per related working environment.
	1.10 Identify basic first-aid and use them under different circumstances.
	1.11 Identify different fire extinguisher and use the same as per requirement.
2. Comply with environment regulation and housekeeping	2.1 Identify environmental pollution & contribute to the avoidance of instances of environmental pollution.
	2.2 Deploy environmental protection legislation & regulations.
	2.3 Take opportunities to use energy and materials in an environmentally friendly manner.
	2.4 Avoid waste and dispose waste as per procedure.
3. Assist in exigencies and carry out elementary first-aid during emergencies.	3.1 Demonstrate elementary first-aids.
	3.2 Demonstrate safety practices to be observed in kitchen.
	3.3 Demonstrate use of personal protective dresses.
	3.4 Identify emergency exit route.
	3.5 Demonstrate fire fighting procedure using fire extinguishers.
4. Work in a team, understand and practice soft skills, technical English to communicate with required clarity.	4.1 Obtain sources of information and recognize information.
	4.2 Use documents, regulations and occupationally related provisions.
	4.3 Conduct appropriate and target oriented discussions with higher authority and within the team.
	4.4 Present facts and circumstances, possible solutions & use English and French terminology.
	4.5 Resolve disputes within the team.
	4.6 Conduct written communication.
5. Explain energy conservation, global warming, pollution, and	5.1 Semester examination to test knowledge on energy conservation, global warming and pollution.

contribute in day- to-day work by using available resources optimally.	5.2 Their applications will be assessed during execution of assessable outcome.
6. Explain personnel finance, entrepreneurship and manage/organize related task in day-to- day work for personal & societal growth.	6.1 Semester examination to test knowledge on personnel finance, entrepreneurship.
	6.2 Their applications will be assessed during execution of assessable outcome.

Specific Assessable Outcome:

LEARNING / ASSESSABLE OUTCOME		ASSESSMENT CRITERIA
SEMESTER-I		
7. Identify and use embroidery tools, machine operates with safety precautions.	7.1	Identify embroidery tools.
	7.2	Identify all parts of equipment and their accessories.
	7.3	Clean all parts of equipment.
	7.4	Plan and operate.
	7.5	Identify basic faults and correct.
	7.6	Safety and maintenance.
8. Prepare sample basic hand stitches (Temporary & permanent stitch)	8.1	Identify and use the embroidery tools with safely.
	8.2	Select raw material for Temporary & permanent basic hand stitches.
	8.3	Prepare sample of Temporary stitches such as basting even, basting uneven, diagonal, slip basting.
	8.4	Prepare sample of permanent stitches such as running, hemming, slip, run & back, over casting.
	8.5	Explain difference between Temporary & Permanent stitch
	8.6	Sample should be properly finished and pressed.
9. Demonstrate and prepare sample both technique (Hand and Machine).	9.1	Identify and use the Pressing and Embroidery tools with safety.
	9.2	Select raw material, tools and equipment for tracing method.
	9.3	Prepare sample of running, back, satin and cross stitch by hand embroidery technique.
	9.4	Prepare sample of same stitches by computerized embroidery machine.
	9.5	Explain difference between hand embroidery and machine embroidery.
	9.6	Sample should be properly finished and pressed.
10. Embroidery designs the following with suitable fabric	10.1	Open the software and do the required page setup for the design.
	10.2	Identify and use the suitable tools for designing.
	10.3	Sketch the garment with suitable fabric design.
	10.4	Follow the designing principal.

design using coral draw software. (Indian Dresses, Western Dresses)	10.5	Select the colors and colour combination.
	10.6	Apply colour using colour filling tools.
	10.7	Save the file in a folder and take the print out of the design using colour printer.
11. Set up the machine and machine accessories as per requirement	11.1	Identify and use the Pressing and Embroidery tools with safety.
	11.2	Decide the features and placement of the design (Border, Spray, Corner, Center, Link, etc) suitable for the part of the garment (Sleeves, Yokes, Cuffs, Neck, etc).
	11.3	Draw the design using already installed by following the elements of design.
	11.4	Apply suitable colors to the design by following color scheme.
	11.5	Press the garment part. Transfer the design on the garment.
	11.6	Fix the garment part properly on the embroidery frame.
	11.7	Select suitable embroidery stitches for the design.
	11.8	Start embroidery and complete the design step by step by applying suitable stitches at the required portions.
	11.9	Remove the frame and trim the excess threads.
	11.10	Follow the safety instructions throughout the process.
12. Identify, select and troubleshoot the machine with proper maintenance procedure.	12.1	Machine oiling and maintenance
	12.2	Trouble shoots the machine whenever required.
	12.3	Comply with safe operating principal.
	12.4	Follow the safety instructions throughout the process.

13. Develop the skill to make computerized design with the application of software	13.1	Select correct needle, Pressing and Embroidery tools with safety.
	13.2	Open the software (Embroidery Software) and Select already install Design suitable for a Cushion Cover.
	13.3	Digitized and editing stitches.
	13.4	Apply suitable colours to the design.
	13.5	Decide the placement of the design in the fabric.
	13.6	Fix the cushion cover properly on the embroidery frame.
	13.7	Select suitable Machine embroidery stitches for the design.
	13.8	Do the upper and lower threading of the machine.
	13.9	Start embroidery and complete the design step by step by applying suitable stitches at the required portions.
	13.10	Remove the frame trim extra thread and press the cushion cover neatly.
	13.11	Follow safety precaution
SEMESTER-II		
14. Setup computerized embroidery machine for transferring the image.	13.1	Open the software and do the required design.
	13.2	Identify and use the suitable tools for designing.
	13.3	Sketch the garment with suitable fabric design.
	13.4	Follow the designing principal.
	13.5	Select the colors and color combination.
	13.6	Apply color using color filling tools.
	13.7	Decide the features and placement of the design.
	13.8	Fix the pillow cover properly on the embroidery frame.
	13.9	Select suitable Machine embroidery stitches for the design.
	13.10	Do the upper and lower threading of the machine.
	13.11	Start embroidery and complete the design step by step by applying suitable stitches at the required portions.
	13.12	Remove the frame trim extra thread and press the pillow cover neatly.
15. Run the computerized embroidery machine for all the digitizing process.	14.1	Open the embroidery software and do the required design.
	14.2	Identify and use the tools for digitizing.
	14.3	Sketch the garment with suitable fabric design.
	14.4	Follow the designing principal.
	14.5	Select suitable stitches for the design.
	14.6	Select the colors and color combination.
	14.7	Apply color using color filling tools.
	14.8	Decide the features and placement of the design.
	14.9	Select correct needles, frame, scissor and thread.
	14.10	Fix the bed sheet properly on the embroidery frame.
	14.11	Do the upper and lower threading of the machine.
	14.12	Start embroidery and complete the design step by step by applying suitable stitches at the required portions.
	14.13	Maintain hygiene.
	14.14	Maintain safety expects.
	14.15	Maintain quality as per requirement.

	14.16 Remove the frame trim extra thread and press the bed sheet neatly.
	14.17 Produce a estimate and cost sheet.
16. Prepare T-shirt used monogramming & logo design.	16.1 Open the embroidery software and do the required design.
	16.2 Identify and use the tools for digitizing.
	16.3 Sketch the garment with suitable fabric design.
	16.4 Follow the designing principal.
	16.5 Select suitable stitches for the design.
	16.6 Select the colors and color combination.
	16.7 Apply color using color filling tools.
	16.8 Decide the features and placement of the design.
	16.9 Select correct needles, frame, scissor and thread.
	16.10 Fix the T- shirt properly on the embroidery frame.
	16.11 Do the upper and lower threading of the machine.
	16.12 Start embroidery and complete the design step by step by applying suitable stitches at the required portions.
	16.13 Maintain hygiene.
	16.14 Maintain safety expects.
	16.15 Maintain quality as per requirement.
	16.16 Remove the frame trim extra thread and press the T- shirt neatly.
	16.17 Produce a estimate and cost sheet.
17. Identify, select and apply the digitizing design and use various techniques e.g. Appliqué work, Sequins work, Taping work, Cording work, Chenille work.	18.1 Open the embroidery software and do the required design.
	18.2 Identify and use the tools for digitizing.
	18.3 Sketch the garment with suitable fabric design.
	18.4 Follow the designing principal.
	18.5 Select suitable stitches for the design.
	18.6 Select the colors and color combination.
	18.7 Apply color using color filling tools.
	18.8 Decide the features and placement of the design.
	18.9 Select correct needles, frame, scissor and thread.
	18.10 Fix the sari properly on the embroidery frame.
	18.11 Do the upper and lower threading of the machine.
	18.12 Start embroidery and complete the designs use appliqué, sequins, taping, cording and chenille step by step by applying suitable stitches at the required portions.
	18.13 Maintain hygiene.
	18.14 Maintain safety expects.
	18.15 Maintain quality as per requirement.
	18.16 Remove the frame trim extra thread and press the bed sheet neatly.
	18.17 Produce a estimate and cost sheet.

NSQF QUALIFICATION FILE

Computer Aided Embroidery & Designing

SECTION 2

25. EVIDENCE OF LEVEL

OPTION A

Title/Name of qualification/component: Computer Aided Embroidery & Designing		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Process	<p>Familiar, Predictable, Routine Situations of Clear Choice</p> <ul style="list-style-type: none"> Identify and use embroidery tools, machine and operate with safety precautions. Prepare sample basic hand stitches (Temporary & permanent stitch). Attain the skill to prepare sample by both the technique (Hand and Machine). Embroidery Design the following with suitable fabric design using coral draw software. (Indian Dresses, Western Dresses). Set up the machine and machine accessories as per requirement. Identify, select and troubleshoot the machine with proper maintenance procedure. Develop the skill to make computerizes design with the application of software. Setup computerized embroidery machine for transferring the image. 	<p>In all the learning outcomes for example 'Embroidery Design the following with suitable fabric design using coral draw software. (Indian Dresses, Western Dresses).' and 'Run the computerized embroidery machine for all the digitizing process.', the learner will be required to choose appropriate tools, equipments, Procedures as per the requirement of the job. The work will however be done within a familiar, predictable and routine range of situations to achieve the tolerance levels and accuracy demanded as per the job.</p> <p>Thus the learner requires to demonstrate ability to work in familiar, predictable, routine, situation of clear choice.</p> <p>And the NSQF level as per this descriptor will be 4.</p>	4

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Computer Aided Embroidery & Designing

Title/Name of qualification/component: Computer Aided Embroidery & Designing			Level: 4
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<ul style="list-style-type: none"> • Run the computerized embroidery machine for all the digitizing process. • Prepare T-shirt used monogramming & logo design. • Identify, select and apply the digitizing design and use various techniques e.g. Appliqué work, Sequins work, Taping work, Cording work, Chenille work. 		
Professional knowledge	<p>Factual Knowledge of field of Knowledge or study</p> <ul style="list-style-type: none"> • Knowledge of Hand Embroidery & Stitches • Different types of Embroidery and Computerized embroidery machine. • Introduction and function of various parts of computer also relate it to computerized embroidery machine. • Types of Needle and their uses and handling. • Difference between upper thread and bobbin thread. • Stabilizers/backing their types and uses. • Knowledge of digitizing software and machine keys. • Use of scanner with digitizing software. 	<p>The learner will need to be well versed with Factual knowledge of field of embroidery design based on computer for example 'Knowledge of Hand Embroidery & Stitches', 'Different types of Embroidery and Computerized embroidery machine.' and 'Knowledge of digitizing software and machine keys.'</p> <p>Hence NSQF Level is 4 for this descriptor.</p>	4

NSQF QUALIFICATION FILE

Computer Aided Embroidery & Designing

Title/Name of qualification/component: Computer Aided Embroidery & Designing		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<ul style="list-style-type: none"> • Knowledge of Monogram & Logo • Setting of design on different articles • Detailed knowledge of special Attachments on Operating machine on self-made design. 		
Professional skill	<ul style="list-style-type: none"> • Identify and use embroidery tools, machine and operate with safety precautions. • Prepare sample basic hand stitches (Temporary & permanent stitch). • Attain the skill to prepare sample by both the technique (Hand and Machine). • Embroidery Design the following with suitable fabric design using coral draw software. (Indian Dresses, Western Dresses). • Set up the machine and machine accessories as per requirement. • Identify, select and troubleshoot the machine with proper maintenance procedure. • Develop the skill to make computerizes design with the application of software. • Setup computerized embroidery machine for transferring the image. • Run the computerized embroidery machine for all the digitizing process. 	<p>The learner after the trainer will be able to work independently and 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. This can be ascertained by reading the Assessment Criteria.</p> <p>The learner will also be responsible for own quality of work and will have to use quality tools to check own work to ensure conformance to requirements of the job.</p> <p>Hence NSQF Level is 4 for this descriptor.</p>	4

NSQF QUALIFICATION FILE

Computer Aided Embroidery & Designing

Title/Name of qualification/component: Computer Aided Embroidery & Designing		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<ul style="list-style-type: none"> • Prepare T-shirt used monogramming & logo design. • Identify, select and apply the digitizing design and use various techniques e.g. Appliqué work, Sequins work, Taping work, Cording work, Chenille work. 		
Core skill	<p>Language to communicate written or oral, with required clarity</p> <ul style="list-style-type: none"> • 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. <p>Desired Mathematical Skills</p> <ul style="list-style-type: none"> • Demonstrate basic mathematical concept and 	<p>The work of Computer Aided Embroidery & Designing involves Service, Repair & Installation of PV Panels and their maintenance which requires competence in written language with required clarity in order to understand the work enlisted in the job card/service card.</p> <p>The learner will also need to communicate with team supervisor to understand the job and explain ones work which requires competence in oral language, with required clarity.</p> <p>The learner will also need to have basic understanding of social political and natural environment as mentioned in the learning outcome for example 'Comply environment regulation and</p>	4

NSQF QUALIFICATION FILE

Computer Aided Embroidery & Designing

Title/Name of qualification/component: Computer Aided Embroidery & Designing		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<p>principles to perform practical operations.</p> <ul style="list-style-type: none"> • Basic skills in Arithmetic, Algebra, Trigonometry and statistics and apply knowledge of specific area to perform practical operations. <p>Basic understanding of social political and natural environment</p> <ul style="list-style-type: none"> • Understand and explain the concept in productivity, quality tools, and labour welfare legislation and apply such in day to day work to improve productivity & quality. • Explain energy conservation, global warming and pollution and contribute in day to day work by optimally using available resources. • Explain entrepreneurship and manage/organize related task in day to day work for personal & societal growth. • Comply 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 	<p>housekeeping'</p> <p>Hence NSQF Level is 4 for this descriptor</p>	

NSQF QUALIFICATION FILE

Computer Aided Embroidery & Designing

Title/Name of qualification/component: Computer Aided Embroidery & Designing		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<p>in an environmentally friendly manner</p> <ul style="list-style-type: none"> • Avoid waste and dispose waste as per procedure • Recognize different components of 5S and apply the same in the working environment. 		
Responsibility	<ul style="list-style-type: none"> • Identify and use embroidery tools, machine and operate with safety precautions. • Prepare sample basic hand stitches (Temporary & permanent stitch). • Attain the skill to prepare sample by both the technique (Hand and Machine). • Embroidery Design the following with suitable fabric design using coral draw software. (Indian Dresses, Western Dresses). • Set up the machine and machine accessories as per requirement. • Identify, select and troubleshoot the machine with proper maintenance procedure. • Develop the skill to make computerizes design with the application of software. • Setup computerized embroidery machine for transferring the image. • Run the computerized embroidery machine 	<p>The Computer Aided Embroidery & Designing technician has to perform all the learning outcomes independently and as per requirements of the job, hence is responsible for own work and learning.</p> <p>Hence NSQF Level is 4 for this descriptor.</p>	4

NSQF QUALIFICATION FILE

Computer Aided Embroidery & Designing

Title/Name of qualification/component: Computer Aided Embroidery & Designing		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<p>for all the digitizing process.</p> <ul style="list-style-type: none">• Prepare T-shirt used monogramming & logo design.• Identify, select and apply the digitizing design and use various techniques e.g. Appliqué work, Sequins work, Taping work, Cording work, Chenille work.		

NSQF QUALIFICATION FILE*Computer Aided Embroidery & Designing***OPTION B**

Title/Name of qualification/component: Enter the title here			Level: Add level
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
Process			
Professional knowledge			
Professional skill			
Core skill			
Responsibility			

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="339 472 1209 1379"> <thead> <tr> <th data-bbox="339 472 627 618">Basis</th> <th data-bbox="627 472 1209 618">In case of other Awarding Bodies (Institutes under Central Ministries and states departments)</th> </tr> </thead> <tbody> <tr> <td data-bbox="339 618 627 779">Need of the qualification</td> <td data-bbox="627 618 1209 779">The proposed qualification is running in the system for last few decades and passed out candidates are engaged in various related industries.</td> </tr> <tr> <td data-bbox="339 779 627 1099">Industry Relevance</td> <td data-bbox="627 779 1209 1099">The job role defined for the qualification is as per the National Qualification of Occupation 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. This justifies the qualification is very much relevance for industry.</td> </tr> <tr> <td data-bbox="339 1099 627 1261">Usage of the qualification</td> <td data-bbox="627 1099 1209 1261">The Proposed qualification is running in ITI system across the country successfully over the period of time.</td> </tr> <tr> <td data-bbox="339 1261 627 1379">Estimated uptake</td> <td data-bbox="627 1261 1209 1379">This is a New Trade. The present seating capacity is approximately 63.</td> </tr> </tbody> </table>	Basis	In case of other Awarding Bodies (Institutes under Central Ministries and states departments)	Need of the qualification	The proposed qualification is running in the system for last few decades and passed out candidates are engaged in various related industries.	Industry Relevance	The job role defined for the qualification is as per the National Qualification of Occupation 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. This justifies the qualification is very much relevance for industry.	Usage of the qualification	The Proposed qualification is running in ITI system across the country successfully over the period of time.	Estimated uptake	This is a New Trade. The present seating capacity is approximately 63.
Basis	In case of other Awarding Bodies (Institutes under Central Ministries and states departments)										
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Usage of the qualification	The Proposed qualification is running in ITI system across the country successfully over the period of time.										
Estimated uptake	This is a New Trade. The present seating capacity is approximately 63.										
27	<p>Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences.</p> <p>This qualification is run by Ministry of Skill Development and Entrepreneurship and different industries under the related line ministry are also generally consulted before finalizing the curricula.</p>										
28	<p>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</p> <p>The qualification is originally designed and approved by NCVT for the Craftsmen Training Scheme and is in existence for the last 60 years. NCVT has been entrusted with the responsibilities of prescribing standards and curricula for craftsmen training, advising the Government of India on the overall policy and programmes, conducting All India Trade Tests and awarding National Trade Certificates.</p>										
29	<p>What arrangements are in place to monitor and review the qualification(s)? What data will be used and at what point will the</p>										

	<p>qualification(s) be revised or updated? Specify the review process here</p> <ul style="list-style-type: none"> • Mentor Council (MC) for the TEXTILE & APPAREL Sector was formed in 2014 to review the curriculum of this qualification under the sector. • CSTARI, the research wing of DGT, reviews and updates the qualification, in consultation with industries and other stakeholders, on a regular basis by conducting trade committee meetings. • DGT will keep on doing continuous comparative study in the trade by referring to relevant upcoming qualifications in the National Qualifications Register (NQR) and relevant sectors.
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Please attach most relevant and recent documents giving further information about any of the topics above.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

SECTION 4
EVIDENCE OF PROGRESSION

30	<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?</p> <p><i>Show the career map here to reflect the clear progression</i></p> <ul style="list-style-type: none"> • Qualifying trainee will obtain an NCVT Certificate in Computer Aided Embroidery & Designing trade which gives the following options of progression to the trainee: <ul style="list-style-type: none"> i) National Apprenticeship Certificate will be designed in due course of time as this a new trade. ii) Designer iii) Designer Tailor/ Embroiderer iv) Pattern Maker v) Pattern Master vi) Advance Pattern Master vii) Merchandiser viii) Entrepreneur.
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Please attach most relevant and recent documents giving further information about any of the topics above.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.