



Please refer Guidelines for STT/LTT/Apprenticeship/OEM Qualification File

QUALIFICATION FILE

COMPUTER AIDED EMBROIDERY & DESIGN

- Short Term Training (STT) Long Term Training (LTT) Apprenticeship
 Upskilling Dual/Flexi Qualification For ToT For ToA
- General Multi-skill (MS) Cross Sectoral (CS) Future Skills OEM

NCrF/NSQF Level: 4

Submitted By:

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.

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Section 1: Basic Details

1.	Qualification Name	COMPUTER AIDED EMBROIDERY & DESIGN							
2.	Sector/s	APPAREL							
3.	Type of Qualification: <input type="checkbox"/> New <input checked="" type="checkbox"/> Revised <input type="checkbox"/> Has Electives/Options <input type="checkbox"/> OEM	NQR Code & version of existing/previous qualification: 2020/APR/DGT/04008	Qualification Name of existing/previous version: COMPUTER AIDED EMBROIDERY & DESIGN (CITS)						
4.	a. OEM Name b. Qualification Name <i>(Wherever applicable)</i>	NA							
5.	National Qualification Register (NQR) Code &Version <i>(Will be issued after NSQC approval)</i>	QG-04-AP-03220-2024-V2-DGT	6. NCrF/NSQF Level: 4						
7.	Award (Certificate/Diploma/Advance Diploma/Any Other) <i>(Wherever applicable specify multiple entry/exits also & provide details in annexure)</i>	National Craft Instructor Certificate (NCIC)							
8.	Brief Description of the Qualification	The individual will be able to impart theoretical instructions, demonstrate practical skills, evaluate and grade trainees of Computer Aided Embroidery & designing CITS trade in industrial workshops, ITIs/Vocational Training Institutes etc.							
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">S. No.</th> <th style="width: 60%;">Academic/Skill Qualification (with Specialization - if applicable)</th> <th style="width: 30%;">Required Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td> Degree in Textile Designing/ Fashion Technology/ Costume Design & Dress Making from recognized Board / University. OR 03 years diploma in Textile Designing/ Fashion Technology/ Costume Design & Dress Making after class 10th from recognized board/ University. OR Ex-serviceman from Indian Armed forces with 15 years of service in related field as per equivalency through DGR. OR 10th Class with 1 years NTC/NAC in the trade </td> <td></td> </tr> </tbody> </table>		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1.	Degree in Textile Designing/ Fashion Technology/ Costume Design & Dress Making from recognized Board / University. OR 03 years diploma in Textile Designing/ Fashion Technology/ Costume Design & Dress Making after class 10th from recognized board/ University. OR Ex-serviceman from Indian Armed forces with 15 years of service in related field as per equivalency through DGR. OR 10th Class with 1 years NTC/NAC in the trade	
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		of "Computer Aided Embroidery & Designing".																		
		b. Age: Minimum age 16 years as on first day of academic session.																		
10.	Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	45	11. Common Cost Norm Category (I/II/III) (wherever applicable): N/A																	
12.	Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)	NA																		
13.	Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)	<input checked="" type="checkbox"/> Offline <input type="checkbox"/> Online <input type="checkbox"/> Blended <table border="1"> <thead> <tr> <th>Training Delivery Modes</th> <th>Theory (Hours)</th> <th>Practical (Hours)</th> <th>OJT Mandatory (Hours)</th> <th>Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td>450</td> <td>750</td> <td>150</td> <td>1350</td> </tr> <tr> <td>Online</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>(Refer Blended Learning Annexure for details)</p>				Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	Total (Hours)	Classroom (offline)	450	750	150	1350	Online				
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Classroom (offline)	450	750	150	1350																
Online																				
14.	Aligned to NCO/ISCO Code/s (if no code is available mention the same)	2356.0100, 8153.0701, 7533.9900																		
15.	Progression path after attaining the qualification (Please show Professional and Academic progression)	Professional <ul style="list-style-type: none"> Technical Instructor in a vocational training Institute/ technical Institution Supervisor in Industries 		Academic <ul style="list-style-type: none"> Diploma Advance Diploma (Vocational) Degree PG 																
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	Hindi																		
17.	Is similar Qualification(s) available on NQR-if yes, justification for this qualification	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No URLs of similar Qualifications:																		
18.	Is the Job Role Amenable to Persons with Disability	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If "Yes", specify applicable type of Disability: LD, CP, LC, DW, AA, LV, DEAF, HH, AUTISM, ID, SLD																		
19.	How Participation of Women will be Encouraged	The courses will empower women by creating self-employment opportunities and enabling them to get jobs as this course offers specialized skilling.																		
20.	Are Greening/ Environment Sustainability Aspects Covered (Specify the NOS/Module which covers it)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																		

21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Colleges <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
22.	Name and Contact Details of Submitting / Awarding Body SPOC <i>(In case of CS or MS, provide details of both Lead AB & Supporting ABs)</i>	Name: Shri Ishwar Singh, Deputy Director General Email: ishwar.singh25@gov.in Contact No.: 011-25802140 Website: https://dgt.gov.in/	
23.	Final Approval Date by NSQC: 22th Oct. 2024	24. Validity Duration: 3 Yrs. from the Date of Approval	25. Next Review Date: 21th Oct. 2027

NSQC Approved

Section 2: Module Summary

NOS/s of Qualifications

(In exceptional cases these could be described as components)

Mandatory NOS/s:

Specify the training duration and assessment criteria at NOS/ Module level. For further details refer curriculum document.

Th.-Theory Pr.-Practical OJT-On the Job Man.-Mandatory Training Rec.- Recommended Pro j.- Project

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj. / Int. AM. Th.	Viva / Int. AM. Pr.	Total	Weightage (%) (if applicable)
TRADE TECHNOLOGY																
1.	Develop embroidery design by using CorelDraw software and embroidery digitizing software on basic level	AMH/N9405 V1.0	Core	4	1.0	10	20			30	7	18	2.6	5.4	33	NA
2.	Demonstrate multi head computerized embroidery machine with proper knowledge about its tools	AMH/N9406 V1.0	Core	4	0.5	5	10			15	6	18	2.6	5.4	32	NA
3.	Set up the machine and machine accessories as per requirement and demonstrate the threading process according to the fabric type, needles and threads used.	AMH/N9414 V1.0	Core	4	1.5	10	35			45	7	18	2.6	5.4	33	NA
4.	Identifying defect and their troubleshooting while making designs on	AMH/N9415 V1.0	Core	4	2.0	20	40			60	7	18	2.6	5.4	33	NA

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj. / Int. AM. Th.	Viva / Int. AM. Pr.	Total	Weightage (%) (if applicable)
	machine.															
5.	Demonstrate the process of digitizing designs on software for mass production on multi head embroidery machine for industrial work.	AMH/N9416 V1.0	Core	4	4.0	30	90			120	7	18	2.6	5.4	33	NA
6.	Demonstrate the digitizing process of specialized embroidery designs and set up the attachments.	AMH/N9417 V1.0	Core	4	3.0	30	60			90	7	19	2.5	5.5	34	NA
7.	Prepare different specialized embroidery samples with use of special attachments.	AMH/N9423 V1.0	Core	4	2.0	20	40			60	7	18	2.5	5.5	33	NA
8.	Create decorative embroidery designs and run the machine to develop various design.	AMH/N9409 V1.0	Core	4	4.0	30	90			120	7	19	2.5	5.5	34	NA
9.	Set up the Computerized Aari Embroidery Machine with proper knowledge about parts, maintenance and capabilities.	AMH/N9409 V1.0	Core	4	0.5	5	10			15	7	18	2.5	5.5	33	NA
10.	Operate Computerized Aari Embroidery Machine and make Aari	AMH/N9409 V1.0	Core	4	2.5	25	50			75	7	18	2.5	5.5	33	NA

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj. / Int. AM. Th.	Viva / Int. AM. Pr.	Total	Weightage (%) (if applicable)
	embroidery designs with safety.															
11.	Attain knowledge of placement setting of designs on different articles with machine.	AMH/N9417 V1.0	Core	4	1.5	10	35			45	7	18	2.5	5.5	33	NA
12.	Exhibit effective communication skills with logical reasoning ability and quantitative aptitude to maximize efficiency in work.	MEP/N9443 V1.0	Non-Core	4	2.5	75	-			75	24		12		36	NA
13.	On the Job Training				5.0			150		150						
Duration (in Hours) / Total Marks					30	270	480	150		900	100	200	40	60	400	
TRAINING METHODOLOGY																
14.	Plan & prepare the learners for the class using basics of educational psychology & motivational techniques.	MEP/N9401 V1.0	Core	4	1.5	12	33			45	7	24	2	4	37	
15.	Analyze the syllabus of the Course.	MEP/N9405 V1.0	Core	4	1	10	20			30	6	15	1	2	24	
16.	Plan & prepare the training session using various methods viz. 4 step method, question & questioning technique etc.	MEP/N9406 V1.0	Core	4	1	12	18			30	7	13	1	2	23	
17.	Communicate effectively with the trainees both verbally	MEP/N9407 V1.0	Core	4	1	12	18			30	7	13	1	2	23	

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj. / Int. AM. Th.	Viva / Int. AM. Pr.	Total	Weightage (%) (if applicable)
	and nonverbally.															
18.	Use Instructional Technology & facilitate the training program.	MEP/N9408 V1.0	Core	4	1	12	18			30	7	13	1	2	23	
19.	Design written instructional materials and implement for imparting training.	MEP/N9409 V1.0	Core	4	1	12	18			30	7	13	1	2	23	
20.	Assess, evaluate and certify the tests.	MEP/N9410 V1.0	Core	4	1	12	18			30	7	13	1	2	23	
21.	Organize workshop and classroom learning observing instructional methods.	MEP/N9426 V1.0	Core	4	1	12	18			30	7	13	1	2	23	
22.	Counsel & mentor the trainees by identifying their Strength & Weaknesses.	MEP/N9428 V1.0	Core	4	1	10	20			30	5	15	1	2	23	
23.	Develop Entrepreneurship skills.	MEP/N9438 V1.0	Core	4	1	12	18			30	7	13	1	2	23	
24.	Apply ICT & Internet in training (computer-based training) and various types of Distance learning programmes.	MEP/N9439 V1.0	Core	4	1	10	20			30	5	15	1	2	23	
25.	Plan and conduct sessions to impart competency based skills and knowledge.	MEP/N9440 V1.0	Core	4	1	10	20			30	6	15	1	2	24	
26.	Apply Adult Learning Principles.	MEP/N9441 V1.0	Core	4	0.5	7	8			15	3	7	1	1	12	
27.	Develop and implement continuous professional	MEP/N9442 V1.0	Core	4	0.5	7	8			15	3	7	1	1	12	

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks				
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj. / Int. AM. Th.	Viva / Int. AM. Pr.	Total
	development plan.														
28.	Develop employability skills for the industrial needs.	MEP/N9475 V1.0	Core	4	1	15	15			30	8	11	3	2	24
29.	Develop future skills in Emerging Technology.	MEP/N9476 V1.0	Core	4	0.5	15	0			15	8		2		10
Duration (in Hours) / Total Marks						15	180	270		450	100	200	20	30	350
Grand Total						45	450	750	150	1350	200	400	60	90	750

Elective NOS/s:

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks				
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total
1.															
2.															
Duration (in Hours) / Total Marks															

Optional NOS/s:

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks				
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total
1.															
2.															
Duration (in Hours) / Total Marks															

Note: Distribution of marks shown above are indicative only

Assessment - Minimum Qualifying Percentage

Please specify **any one** of the following:

Minimum Pass Percentage –Aggregate at qualification level: The minimum pass percent for Trade Practical, TM practical and Formative assessment is 60% & for all other subjects (Theory) is 40%. There will be no Grace marks. (Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)

Minimum Pass Percentage –NOS/Module-wise: % (Every Trainee should score specified minimum passing percentage in each mandatory and selected elective NOS/Module to successfully clear the assessment.)

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Section 3: Training Related

1.	Trainer’s Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	<p>B.Voc /Degree in Textile Designing/ Fashion Technology/ Costume Design & Dress Making from AICTE/ UGC recognized Board / University with two years’ experience in relevant field. OR Diploma (Minimum 2 years) in Textile Designing/ Fashion Technology/ Costume Design & Dress Making from recognized Board / University with five years of experience in relevant field. OR Ex-serviceman from Indian Armed forces with 15 years of service in related field as per equivalency through DGR. Candidate should have undergone methods of instruction course or minimum 02 years of experience in technical training institute of Indian Armed forces. OR NTC/ NAC passed in ‘Computer Aided Embroidery & Designing’ trade with seven years of experience in relevant field.</p> <p>Essential Qualification: National Craft Instructor Certificate (NCIC) in ‘Computer Aided Embroidery & Designing’, in any of the variants under DGT. (Trainees completed National Craft Instructor Certificate in ‘Surface Ornamentation Techniques’ from the year 2015 to 2020 are also eligible)</p>
2.	Master Trainer’s Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	N/A
3.	Tools and Equipment Required for Training	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If “Yes”, details to be provided in Annexure)
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	NA

Section 4: Assessment Related

1.	Assessor’s Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Same as point 1 of Section 3 (Trainer’s qualification and experience)
2.	Proctor’s Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	N/A
3.	Lead Assessor’s/Proctor’s Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	N/A

4.	Assessment Mode (<i>Specify the assessment mode</i>)	Summative Assessment and Formative Assessment
5.	Tools and Equipment Required for Assessment	<input checked="" type="checkbox"/> Same as for training <input type="checkbox"/> Yes <input type="checkbox"/> No (<i>details to be provided in Annexure-if it is different for Assessment</i>)

Section 5: Evidence of the need for the Qualification

Provide Annexure/Supporting documents name.

1.	Latest Skill Gap Study (not older than 2 years) (Yes/No): N/A
2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): N/A
3.	Government /Industry initiatives/ requirement (Yes/No): YES
4.	Number of Industry validation provided: NA
5.	Estimated nos. of persons to be trained and employed: 150 per year
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: YES If "No", why:

Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	Annexure: NCrf/NSQF level justification based on NCrf level/NSQF descriptors (<i>Mandatory</i>)	Annexure: Evidence of Level
2.	Annexure: List of tools and equipment relevant for qualification (<i>Mandatory, except in case of online course</i>)	Annexure: Tools and Equipment (Lab Set-Up)
3.	Annexure: Detailed Assessment Criteria (<i>Mandatory</i>)	Annexure: Detailed Assessment Criteria
4.	Annexure: Assessment Strategy (<i>Mandatory</i>)	Annexure: Assessment Strategy
5.	Annexure: Blended Learning (<i>Mandatory, in case selected Mode of delivery is "Blended Learning"</i>)	N/A
6.	Annexure: Multiple Entry-Exit Details (<i>Mandatory, in case qualification has multiple Entry-Exit</i>)	Yes
7.	Annexure: Acronym and Glossary (<i>Optional</i>)	Yes
8.	Supporting Document: Model Curriculum (<i>Mandatory – Public view</i>)	Yes

9.	Supporting Document: Career Progression (Mandatory - Public view)	Yes
10.	Supporting Document: Occupational Map (Mandatory)	N/A
11.	Supporting Document: Assessment SOP (Mandatory)	https://dgt.gov.in/sites/default/files/Modified%20CITS-Prospectus%202022.pdf
12.	Any other document you wish to submit:	

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Annexure: Evidence of Level

NCrF/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCrF/NSQF level descriptor	NCrF/NSQF Level
<p>Professional Theoretical Knowledge/Process</p>	<p>Demands wide range of specialized technical skill, clarity of knowledge and practice in broad range of activity involving standard nonstandard practices</p> <ul style="list-style-type: none"> • Develop embroidery design by using CorelDraw software and embroidery digitizing software on basic level. • Demonstrate multi head computerized embroidery machine with proper knowledge about its tools. • Set up the machine and machine accessories as per requirement and demonstrate the threading process according to the fabric type, needles and threads used. • Demonstrate the process of digitizing designs on software for mass production on multi head embroidery machine for industrial work. • Demonstrate the digitizing process of. • specialized embroidery designs and set up the attachments. • Prepare different specialized embroidery samples with use of special attachments. • Create decorative embroidery designs and run machine to develop various designs. • Demonstrate usage of different types of needle on different types of fabrics, threads, sequins and the usage of needle according • Set up the Computerized Aari Embroidery Machine with proper knowledge about parts, maintenance and capabilities. • Operate Computerized Aari Embroidery Machine and make Aari embroidery designs with safety. 	<p>As per the learning outcomes, the learner is expected to demonstrate and supervise the process and guide to develop embroidery design using software and computerized embroidery machines. The Learner should have the skills and knowledge of digitizing designs on software and manage the development of design concepts for commercial production etc. and a very basic level of fabric study to identify the needle type.</p> <p>The above tasks performed by the learner, demands wide range of specialized technical skills, clarity of knowledge and practice in broad range of activity involving standard and non-standard practices.</p> <p>Hence NSQF Level 4 is justified for this descriptor.</p>	<p>4</p>
<p>Professional and Technical Skills/ Expertise/ Professional Knowledge</p>	<p>Factual & theoretical knowledge in broad contexts within the field of work or study</p> <ul style="list-style-type: none"> • Machine area and its capabilities. • Handling of different fabrics. • Importance of stabilizers/backing material and sprays. • Information of design on control panel • Different digitizing software. • Principles behind how the engine, transmission, 	<p>The learner is expected to possess the knowledge about Handling of different fabrics, Information of design on control panel and different digitizing software etc. Placement of the frames for the required design. Based on their choice they monitor preparation of digitized pattern of fashion products and delivers guidance on embroidery techniques on textile/ fabrics. They will also monitor the overall process of quality control and</p>	<p>4</p>

	<p>suspension, brakes, and electrical systems work and how they interact with each other.</p> <ul style="list-style-type: none"> • Ohm's Law; Simple electrical and electronic circuits. • Importance of pollution and emission control in automobile vehicular emission. • Specialized embroidery with suitable needle, designs, fabric, thread, stabilizers and other material etc. • Different sizes of frames and its fixing. • Importance of design specification sheet. • Quality control and quality assurance. 	<p>quality assurance.</p> <p>The above professional knowledge possessed by the learner is the factual & theoretical knowledge in broad context required in this field of work or study.</p> <p>Hence NSQF Level is 4 for this descriptor.</p>	
<p>Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill</p>	<p>A range of cognitive and practical skills required to generate solutions to specific problems in a field of work or study</p> <ul style="list-style-type: none"> • Develop embroidery design by using CorelDraw software and embroidery digitizing software on basic level. • Demonstrate multi head computerized embroidery machine with proper knowledge about its tools. • Set up the machine and machine accessories as per requirement and demonstrate the threading process according to the fabric type, needles and threads used. • Perform maintenance of brake system, a wheel alignment, Head lamp beam adjustment etc. • Diagnose transmission problems, brake system problems by performing diagnostic test. • Perform maintenance of the brake system, such as checking brake fluid levels, inspecting brake pads for wear, and cleaning brake components. • Identify basic components of an automobile including the engine, transmission, suspension, brakes, and electrical systems. Identifying defects and their troubleshooting while making design on machine. • Demonstrate the process of digitizing designs on software for mass production on multi head embroidery machine for industrial work. • Demonstrate the digitizing process of specialized embroidery designs and set up the attachments. • Prepare different specialized embroidery samples with use of special attachments. • Create decorative embroidery designs and run machine to develop various designs. • Set up the Computerized Aari Embroidery Machine with 	<p>The learning outcomes for example 'Demonstrate multi head computerized embroidery machine and Demonstrate the digitizing process of specialized embroidery designs and set up the attachments, etc.</p> <p>require a range of cognitive and practical skills to undertake tasks and generate solutions to specific problems arise during accomplishment in this field of work. It involves understanding requirements, and then decide the operations/procedure/tools which will achieve desired results; plans the sequence of operations to maximize efficiency/effectiveness; review & monitoring etc. all of which involves problem solving and decision making.</p> <p>Hence NSQF Level 4 is justified for this descriptor</p>	<p>4</p>

	<p>proper knowledge about parts, maintenance and capabilities.</p> <ul style="list-style-type: none"> Operate Computerized Aari Embroidery Machine and make Aari embroidery designs with safety. Attain knowledge of placement setting of designs on different articles with machine. 		
<p>Broad Learning Outcomes/Core Skill</p>	<p>Understanding of social/political environment</p> <ul style="list-style-type: none"> Demonstrate reasonable quantitative aptitude and interpret data in the field of work while performing practical tasks. Describe method of energy conservation and day-to-day contribution to work for optimum utilization of resources. Explain personnel finance, entrepreneurship and manage/organize related task in day to day work for personal & societal growth. <p>Collecting, Organizing information and logical communication</p> <ul style="list-style-type: none"> Exhibit attitude & effective communication skills with logical reasoning ability to maximize efficiency at work. Demonstrate English language fluency while carrying out official work. 	<p>contribution to work for optimum utilization of resources.', 'Demonstrate English language fluency while carrying out official work' display the attributes where the learner needs to display reasonably good expertise in self-representation with time management.</p> <p>The learner is also expected to communicate by oral and spoken skills- voice, observe case study, group discussion, listening skills and motivational skills.</p> <p>The individual is supposed to exhibit the well-groomed personality and confidence level in work for optimum utilization of resources and implement the understanding of social, political environmental and some skill of collecting and organizing information and deliver logical communication.</p> <p>Hence NSQF Level is 4 justified for this descriptor.</p>	<p>4</p>
<p>Responsibility</p>	<p>Responsibility for own work and learning and full responsibility for other's works and learning</p> <ul style="list-style-type: none"> Develop embroidery design by using CorelDraw software and embroidery digitizing software on basic level. Demonstrate multi head computerized embroidery machine with proper knowledge about its tools. Set up the machine and machine accessories as per requirement and demonstrate the threading process according to the fabric type, needles and threads used. Identifying defect and their troubleshooting while making design on machine. Demonstrate the process of digitizing designs on software for mass production on multi head embroidery machine for industrial work. 	<p>production of embroidery design. He/she is able to demonstrate possible solutions and check tasks within the team;</p> <p>The learner plans and organizes assigned work; detects & resolves issues during execution in his field of work based on their understanding of various industrial processes/equipment, selection of best parameters and working practices to achieve the desired standards/ accuracy/ precision level of industrial processes.</p> <p>Hence NSQF Level 4 is justified for this descriptor.</p>	<p>4</p>

	<ul style="list-style-type: none">• Demonstrate the digitizing process of specialized embroidery designs and set up the attachments.• Prepare different specialized embroidery samples with use of special attachments.• Create decorative embroidery designs and run machine to develop various designs.• Set up the Computerized Aari Embroidery Machine with proper knowledge about parts, maintenance and capabilities.• Operate Computerized Aari Embroidery Machine and make Aari embroidery designs with safety.• Attain knowledge of placement setting of designs on different articles with machine.		
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Annexure: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment
Batch Size: 25

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
A. TRAINEES TOOL KIT (consumable item)			
1.	Measuring Tape	150 cm	26 (25+1) Nos.
2.	Seam Ripper	Standard	26 (25+1) Nos.
3.	Thimble	Standard	26 (25+1) Nos.
4.	Thread cutter	Standard	26 (25+1) Nos.
5.	Scale plastic	12"	26 (25+1) Nos.
6.	Eraser, Pencil, Sharpener	Standard	26 (25+1) Nos.
7.	Water erasable marking Pen	Standard	26 (25+1) Nos.
B. LIST OF MACHINE AND EQUIPMENT			
8.	Single desks for trainees with arrangements of keeping Books etc.	Standard	25 Nos.
9.	Revolving Chairs without arms	Standard	25 Nos.
10.	Faculty Table & Chair set	Standard	01 No.
11.	Desktop computer with UPS	CPU: 64 Bit, i7 or latest processor, Speed: 3 GHz or Higher. RAM: -8 GB DDR-III or Higher, NVidia Graphics Card 2GB or Higher, Wi-Fi Enabled. Network Card: Integrated Gigabit Ethernet, with USB Mouse, USB Keyboard and Monitor (Min. 17 Inch). Licensed Operating System and Antivirus compatible with Trade related software's.	01 No.
12.	Computer Table and Chair	Standard	01 No.
13.	Multimedia Projector with accessories	Standard	01 No.
14.	White Magnetic Board with Felt board & accessories	Standard	01 No.
15.	Display Board	Standard	01 No.
16.	Notice board	Standard	01 No.
17.	Storage Almira	Standard	01 No.
18.	Book Shelf	Standard	01 No.

19.	A/C unit split type with Stabilizer	2 TR capacity	As per requirement
C. MACHINE LAB			
20.	Multi Head Computerized Embroidery Machine with necessary attachments (Sequins, Cording, Taping, Beads Etc.) Accessories Hoops and UPS	Minimum 4 head	01 No.
21.	Computerized Aari Embroidery Machine with UPS	Minimum 2 head	01 No.
22.	Single head multi needle computerized embroidery machine with accessories and UPS	Standard	01 No.
23.	Single Needle Lock Stitch Industrial Sewing Machine with necessary attachments (Zip Fixing, Picot, Gathering Foot etc.)	Standard	01 No.
24.	Over Lock Machine	3 Thread	01 No.
25.	Scissors	25 cm	05 Nos.
26.	Pinking Shears	Standard	05 Nos.
27.	Steam Iron	Standard	01 No.
28.	Pressing Stand (Metal)	Standard	01 No.
29.	Cutting Tables	Standard	02 Nos.
30.	Pigeon Hole Almirah 10 Lockers & Separate Locking Arrangements for Trainees	Standard	02 Nos.
31.	Locks For Above Pigeon Hole	Standard	20 Nos.
32.	Chair/Stool for Sewing Machines	Standard	02 Nos.
33.	Almira	Standard	02 Nos.
34.	Thread Storage Box/stand	Standard	02 Nos.
35.	A/C unit split type with Stabilizer	2 TR capacity	As per requirement
36.	Display Board	Standard	01 No.
37.	Notice board	Standard	01 No.
38.	Mannequins	lady	02 Nos.
39.	Garment steamer	Standard	01 No.

40.	Laptop	Processor-i7 or above, Ram -8GB or above, Graphics 2 GB or above 1 TB Hard disk 15.6-inch screen	01 No. for each faculty
D. COMPUTER LAB TOOLS & EQUIPMENT			
41.	Desktop computer with UPS	CPU: 64 Bit, i7 or latest processor, Speed: 3 GHz or Higher. RAM: -8 GB DDR-III or Higher, NVidia Graphics Card 2GB or Higher, Wi-Fi Enabled. Network Card: Integrated Gigabit Ethernet, with USB Mouse, USB Keyboard and Monitor (Min. 17 Inch). Licensed Operating System and Antivirus compatible with Trade related software.	25+1 Nos.
42.	Trade Related Software like Wilco, Wings, CorelDraw etc.	Standard	1 each. for each system 25+1
43.	Computer Tables & Chairs	Standard	25+1 Nos.
44.	Projector With Accessories	Standard	01 No.
45.	A3 Size laser jet Color Printer	Standard	01 No.
46.	A3 color Scanner (minimum 1200), flatbed	Standard	01 No.
47.	Printer Table	Standard	01 No.
48.	Scanner Table	Standard	01 No.
49.	Hard Disk	2 TB	01 No.
50.	Book Shelf	Standard	01 No.
51.	Notice Boards	Standard	01 No.
52.	Display Boards	Standard	01 No.
53.	Faculty Table & Chair	Standard	01 No.
54.	Almira	Standard	01 No.
55.	A/C Unit Split Type with Stabilizer	Standard	As per requirement
56.	LAN Connectivity	Standard	As per requirement
NOTE: -			
1.Internet facility is desired to be provided in the class room			

Classroom Aids

The aids required to conduct sessions in the classroom are:

- 1.

Annexure: Industry Validations Summary

Provide the summary information of all the industry validations in table. This is not required for OEM qualifications.

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							

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Annexure: Training & Employment Details

Training and Employment Projections: N/A

Year	Total Candidates		Women		People with Disability	
	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities

Data to be provided year-wise for next 3 years

Training, Assessment, Certification, and Placement Data for previous versions of qualifications: N/A

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed

Applicable for revised qualifications only, data to be provided year-wise for past 3 years.

List Schemes in which the previous version of Qualification was implemented: N/A

- 1.
- 2.

Content availability for previous versions of qualifications:

Participant Handbook Facilitator Guide Digital Content Qualification Handbook Any Other:

Languages in which Content is available: English/ Hindi

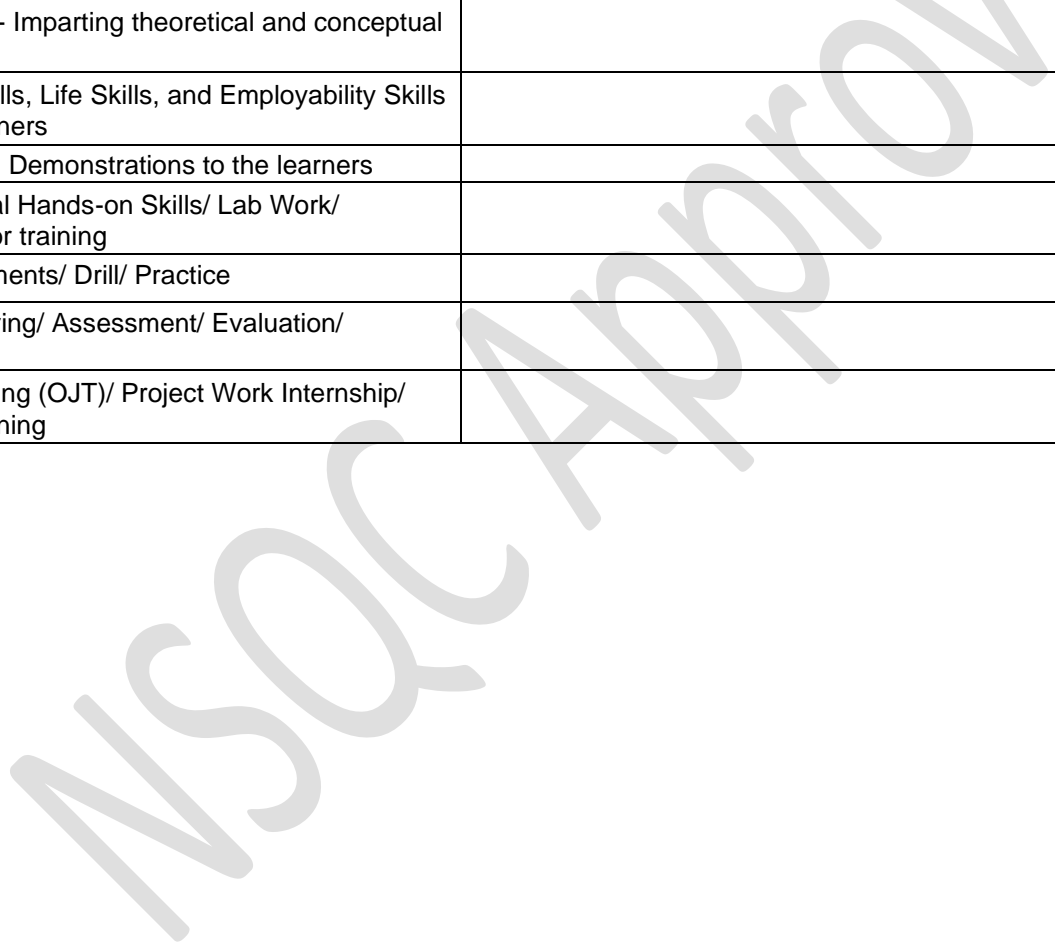
Annexure: Blended Learning

Blended Learning Estimated Ratio & Recommended Tools: N/A

Refer NCVET “Guidelines for Blended Learning for Vocational Education, Training & Skilling” available on:

<https://ncvet.gov.in/sites/default/files/Guidelines%20for%20Blended%20Learning%20for%20Vocational%20Education,%20Training%20&%20Skilling.pdf>

S. No.	Select the Components of the Qualification	List Recommended Tools – for all Selected Components	Offline: Online Ratio
1	<input type="checkbox"/> Theory/ Lectures - Imparting theoretical and conceptual knowledge		
2	<input type="checkbox"/> Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners		
3	<input type="checkbox"/> Showing Practical Demonstrations to the learners		
4	<input type="checkbox"/> Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training		
5	<input type="checkbox"/> Tutorials/ Assignments/ Drill/ Practice		
6	<input type="checkbox"/> Proctored Monitoring/ Assessment/ Evaluation/ Examinations		
7	<input type="checkbox"/> On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training		



Annexure: Detailed Assessment Criteria

Detailed assessment criteria for each NOS/Module are as follows:

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks/ Internal Assessment (Theory)	Viva Marks/ Internal Assessment (Practical)
TRADE TECHNOLOGY					
1. Develop embroidery design by using CorelDraw software and embroidery digitizing software on basic level. (NOS: AMH/N9405)	Develop designs in CorelDraw software and embroidery digitizing software	2.5	6	1.0	1.8
	Follow the designing principal.	2.5	6	1.0	1.8
	Maintain quality as per requirement.	2	6	0.6	1.8
	Total Marks	7	18	2.6	5.4
2. Demonstrate multi head computerized embroidery machine with proper knowledge about its tools ((NOS: AMH/N9406)	Identify the embroidery tools	1.2	3.6	0.5	1.0
	Use the tool with safely.				
	Handle tools and equipment with safe practical exercise.	1.2	3.6	0.5	1.0
	Explain the difference between single head and multi head embroidery machine.	1.2	3.6	0.5	1.0
	Explain benefits of multi head embroidery machine.	1.2	3.6	0.5	1.2
	Practice of Machine oiling and maintenance on regular basis.	1.2	3.6	0.6	1.2
Total Marks	6	18	2.6	5.4	
3. Set up the machine and machine accessories as per requirement and Demonstrate the threading process according to the	Identify the parts of multi head computerized embroidery machine.	0.5	1.5	0.2	0.4
	Perform start and shutdown process of machine.	0.5	1.5	0.2	0.4
	Identify defect of needle.	0.5	1.5	0.2	0.4
	Identify and use tools to remove the needle with safety precautions.	0.5	1.5	0.2	0.4
	Select needle according to the fabric.	0.5	1.5	0.2	0.4
	Fix needle in correct position and place.	0.5	1.5	0.2	0.4
	Wind bobbin with correct tension of thread.	0.4	1.5	0.2	0.4

fabric type, needles and threads used. (NOS: AMH/N9414)	Identify machine part to install the bobbin case.	0.4	1.0	0.2	0.4
	Check the thread tension of bobbin case and clean if needed.	0.4	1.0	0.2	0.4
	Install bobbin case in machine with precautions.	0.4	1.0	0.2	0.4
	Identify upper thread path of machine.	0.4	1.5	0.2	0.4
	Identify and use tools to load thread on to the machine and follow the thread path.	1	1.5	0.2	0.5
	Follow the safety instructions throughout the process.	1	1.5	0.2	0.5
	Total Marks	7	18	2.6	5.4
4. Identifying defect and their troubleshooting while making design on machine. (NOS: AMH/N9415)	Open the software (Embroidery Software) and Select Design according to requirement.	0.4	1	0.1	0.3
	Load design to multi head embroidery machine.	0.4	1	0.1	0.3
	Select correct design, needle, frame and stabilizer.	0.4	1	0.1	0.3
	Do upper and lower threading of the machine.	0.4	1	0.1	0.3
	Select colors and color combination.	0.4	1	0.1	0.3
	Decide placement of the design in the fabric.	0.4	1	0.1	0.3
	Fix fabric with appropriate stabilizer properly in the embroidery frame/pantograph.	0.4	1	0.1	0.3
	Set the origin of design.	0.4	1	0.1	0.3
	Check all things before start.	0.4	1	0.1	0.3
	Run machine and start embroidery.	0.4	1	0.1	0.3
	Monitor and complete the design.	0.4	1	0.2	0.3
	Use control unit/panel whenever required.	0.4	1	0.2	0.3
	Trouble shoots the machine whenever required.	0.4	1	0.2	0.3
	Remove the frame trim extra thread and press the embroidered fabric neatly.	0.4	1	0.2	0.3
	Maintain hygiene.	0.4	1	0.2	0.3
	Working area should be clean and clutter free.	0.4	1	0.2	0.3
	Follow safety instructions throughout the process.	0.3	1	0.2	0.3
Open the software (Embroidery Software) and Select Design according to requirement.	0.3	1	0.2	0.3	
Total Marks	7	18	2.6	5.4	
5. Demonstrate the process of digitizing designs on production on multi head embroidery	Open digitizing software and do required design such as border and buttes etc.	0.5	1.5	0.2	0.5
	Perform digitizing process using all commands in software.	0.5	1.5	0.2	0.5
	Set repeats of buttes and borders designs for running material like bed sheet, suits, saree and dupatta's etc.	0.5	1.5	0.2	0.5
	Prepare design for production of suit/saree.	0.5	1.5	0.2	0.5
	Follow designing principle.	0.5	1.5	0.2	0.5
	Select suitable stitches for the design.	0.5	1.5	0.2	0.5

machine for industrial work. (NOS: AMH/N9416)	Apply suitable colors to the design by following color scheme.	0.5	1.5	0.2	0.5
	Run design on multi head embroidery machine and produce running material such as suit, saree and dupattas etc.	0.5	1.5	0.2	0.5
	Maintain sequence of all elements of designs.	0.5	1.5	0.2	0.5
	Designs should run smoothly on machine.	0.5	1.5	0.2	0.5
	Maintain quality as per requirement.	1.0	1.5	0.3	0.2
	Follow safety instructions throughout the process.	1.0	1.5	0.3	0.2
	Total Marks	7	18	2.6	5.4
6. Demonstrate the digitizing process of specialized embroidery designs and set up the attachments. (NOS: AMH/N9417)	Perform digitizing process of specialized embroideries such as sequins work, cording work, taping work, chenille work and Aari work.	1.4	3.8	0.5	1.1
	Set up special attachments according to the requirements.	1.4	3.8	0.5	1.1
	Designs should run smoothly on machine.	1.4	3.8	0.5	1.1
	Maintain quality as per requirement.	1.4	3.8	0.5	1.1
	Follow safety instructions throughout the process.	1.4	3.8	0.5	1.1
	Total Marks	7	19	2.5	5.5
7. Prepare different specialized embroidery samples with use of special attachments. (NOS: AMH/N9423)	Run machine on specialized embroideries such as sequins work, cording work, taping work, chenille work	1.4	3.6	0.5	1.1
	Handle special attachments with safe practical exercise.	1.4	3.6	0.5	1.1
	Designs should run smoothly on machine.	1.4	3.6	0.5	1.1
	Maintain quality as per requirement.	1.4	3.6	0.5	1.1
	Follow the safety instructions throughout the process.	1.4	3.6	0.5	1.1
	Total Marks	7	18	2.5	5.5
8. Create decorative embroidery designs and run the machine to develop various designs. (NOS: AMH/N9409)	Perform digitizing process of decorative embroideries such as FSL work and cut work.	1.0	4	0.4	1
	Create new fill patterns.	1.2	3	0.4	1
	Do editing wherever required.	1.2	3	0.4	1
	Designs should run smoothly on machine.	1.2	3	0.4	1
	Maintain quality as per requirement.	1.2	3	0.4	1
	Follow safety instructions throughout the process.	1.2	3	0.5	0.5
	Total Marks	7	19	2.5	5.5
9. Set up the Computerized Aari Embroidery Machine with proper knowledge about parts, maintenance and capabilities. (NOS: AMH/N9410)	Identify parts of computerized Aari embroidery machine.	3.5	9	3.2	2.8
	Oiling and maintenance of machine.	3.5	9	2.3	2.7
	Total Marks	7	18	2.5	5.5

10. Operate Computerized Aari embroidery Machine and make Aari embroidery designs with safety. (NOS: AMH/N9410)	Select design for Aari embroidery	1	3	0.3	0.5
	Load design on to the Aari machine.	1	3	0.3	0.5
	Run machine and Prepare garment/article using different embroidery stitches and suitable color scheme.	1	2	0.3	0.5
	Trouble shoots the machine whenever required.	1	2	0.3	0.5
	Designs should run smoothly on machine.	1	2	0.3	0.5
	Follow safety instructions throughout the process.	1	2	0.3	0.5
	Maintain quality as per requirement.	0.5	2	0.3	1.5
	Working area should be clean.	0.5	2	0.4	1.0
Total Marks		7	18	2.5	5.5
11. Attain knowledge of placement setting of designs on different articles with machine. (NOS: AMH/N9418)	Select design for a garment/article.	1	3	0.4	1
	Decide placement of design.	1	3	0.4	1
	Setting of design according to requirement.	1	3	0.4	1
	Explain different types of settings of design.	1	3	0.4	1
	Prepare costing of given embroidered products.	1.5	3	0.4	1
	Produce an estimate and cost sheet.	1.5	3	0.5	0.5
Total Marks		7	18	2.5	5.5
12. Exhibit effective communication skills with logical reasoning ability and quantitative aptitude to maximize efficiency in work. (NOS: MEP/N9443)	Demonstrate reasonable quantitative aptitude and interpret data in the field of work	6		3	
	Demonstrate effective communication skills with logical reasoning ability.	6		3	
	Describe method of energy conservation and day-to-day contribution to work for optimum utilization of resources.	6		3	
	Demonstrate English language fluency while carrying out official work.	6		3	
	Total Marks		24		12
Grand Total		100	200	40	60
TRAINING METHODOLOGY					
1. Plan & prepare the learners for the class using basics of educational psychology & motivational techniques. (NOS: MEP/N9401)	Implement techniques based on psychological parameters like Personality, Aptitude, Skills, values and Potentials.	1.4	4.8	0.4	0.8
	Use different experiments on theories of learning by the different psychologists and their effect in learning situation and relation with Laws of learning.	1.4	4.8	0.4	0.8
	Demonstrate on Modality Learning (Auditory, Visual and Kinesthetic modality).	1.4	4.8	0.4	0.8
	Set Questionnaire on personality development for assessing the psychological attributes.	1.4	4.8	0.4	0.8
	Motivate trainees for the training session.	1.4	4.8	0.4	0.8
	Total Marks		7	24	2
2. Analyze the syllabus of the Course. (NOS:	Select salient points on designing a training curriculum.	1	2.5	0.2	0.3
	Analyse a sample syllabus.	1	2.5	0.1	0.3

MEP/N9405)	Discuss Elements of skills, Outlines of a syllabus.	1	2.5	0.2	0.4
	Make project work on making break up of syllabus and list of topics - Video show/PPT of ADDIE Model.	1	2.5	0.2	0.4
	Design schedule of instructions.	1	2.5	0.1	0.3
	Construct a sample course using principles of teaching.	1	2.5	0.2	0.3
	Total Marks	6	15	1	2
3. Plan & prepare the training session using various methods viz. 4 step method, question & questioning technique etc. (NOS: MEP/N9406)	Set questions on different levels of learning in psychomotor domain according to Bloom Taxonomy.	1.75	3.25	0.25	0.5
	Demonstrate the steps of imparting skills.	1.75	3.25	0.25	0.5
	Prepare lesson plan and demonstration plan using 4 Step methods.	1.75	3.25	0.25	0.5
	Use questioning techniques.	1.75	3.25	0.25	0.5
	Total Marks	7	13	1	2
4. Communicate effectively with the trainees both verbally and nonverbally. (NOS: MEP/N9407)	Identify the process of communication.	2.5	4.5	0.3	0.7
	Use verbal & non-verbal communication to convey messages, pre-listening activity and respond to them.	2	4	0.4	0.6
	Communicate effectively with the trainees in training session.	2.5	4.5	0.3	0.7
	Total Marks	7	13	1	2
5. Use Instructional Technology & facilitate the training program. (NOS: MEP/N9408)	Use various instructional Technologies viz. OHP, Digital Camera, LCD projector, smart board etc.	2.5	4.5	0.3	0.7
	Plan and design charts, transparencies, slides, posters, mock-ups etc.	2	4	0.4	0.6
	Conduct micro teaching sessions.	2.5	4.5	0.3	0.7
	Total Marks	7	13	1	2
6. Design written instructional materials and implement for imparting training. (NOS: MEP/N9409)	Plan & prepare different WIM viz. Operation sheet, Job sheet, Information Sheet, Assignment Sheet, Experiment Sheet, Experiment Sheet, Final Job Check Sheet etc.	3.5	6.5	0.5	1
	Maintain various records viz. Daily Dairy, Progress Chart, Theory & Practical records etc.	3.5	6.5	0.5	1
	Total Marks	7	13	1	2
7. Assess, evaluate and certify the tests. (NOS: MEP/N9410)	Identify different types of test & its necessity.	1	2	0.1	0.3
	Set different types of question on different levels of learning in cognitive domain according to Bloom Taxonomy.	1	2	0.2	0.3
	Set an ideal question paper & evaluate.	1.5	2.5	0.2	0.4
	Apply various evaluation techniques & marking schemes.	1.5	2.5	0.2	0.4
	Undertake competence-based assessment as per standards.	1	2	0.2	0.3
	Conduct formative assessment and summative assessment.	1	2	0.1	0.3
	Total Marks	7	13	1	2
8. Organize workshop and classroom learning observing instructional methods.	Carry out management of Workshop & Class room.	1.75	3.25	0.25	0.5
	Demonstrate group teaching and learning.	1.75	3.25	0.25	0.5
	Explain housekeeping & safety rules in Instructional area.	1.75	3.25	0.25	0.5
	Conduct debate on quality Concept & 5'S.	1.75	3.25	0.25	0.5

(NOS: MEP/N9426)	Total Marks	7	13	1	2
9. Counsel & mentor the trainees by identifying their Strength & Weaknesses. (NOS: MEP/N9428)	Handle trainee's grievances.	1	3	0.2	0.4
	Boost Morale of trainees.	1	3	0.2	0.4
	Conduct SWOT analysis for identifying their Strength & Weaknesses.	1	3	0.2	0.4
	Plan and Prepare the parameters for skills required to become a good trainer.	1	3	0.2	0.4
	Write a good CV.	1	3	0.2	0.4
	Total Marks	5	15	1	2
10. Develop Entrepreneurship skills. (NOS: MEP/N9438)	Use effective leadership Traits.	1.4	2.6	0.2	0.4
	Apply Stress management techniques.	1.4	2.6	0.2	0.4
	Plan & Use Time management techniques.	1.4	2.6	0.2	0.4
	Interpret the sequence of operation for setting up a small business from the flow sequence diagram	1.4	2.6	0.2	0.4
	Analyze the impact of quality and list the importance of quality.	1.4	2.6	0.2	0.4
	Total Marks	7	13	1	2
11. Apply ICT & Internet in training (computer-based training) and various types of Distance learning programmes. (NOS: MEP/N9439)	Use internet, Email application, Fax etc.	1	3	0.2	0.4
	Prepare transparency sheet with the help of computer.	1	3	0.2	0.4
	Prepare Slides by Power Point.	1	3	0.2	0.4
	Conduct Interactive Class on Video Conference.	1	3	0.2	0.4
	Install and commission equipments at Spokes level.	1	3	0.2	0.4
	Total Marks	5	15	1	2
12. Plan and conduct sessions to impart competency based skills and knowledge. (NOS: MEP/N9440)	Interpret one LO, QP, NOS for NSQF alignment.	1.5	3.75	0.25	0.5
	Explain learning outcomes.	1.5	3.75	0.25	0.5
	Identify different roles of NSDA, NSDC and SSC.	1.5	3.75	0.25	0.5
	Apply techniques to create and maintain a positive learning environment.	1.5	3.75	0.25	0.5
	Total Marks	6	15	1	2
13. Apply Adult Learning Principles. (NOS: MEP/N9441)	Apply adult learning in simulated environment.	0.75	1.75	0.25	0.25
	Identify various factors affecting adult learning	0.75	1.75	0.25	0.25
	Use role plays using the principles of adult learning.	0.75	1.75	0.25	0.25
	Apply techniques to create and maintain a positive learning environment.	0.75	1.75	0.25	0.25
	Total Marks	3	7	1	1
14. Develop and implement continuous professional development plan. (NOS: MEP/N9442)	Develop a professional development plan to enhance professional capabilities.	1.5	3.5	0.5	0.5
	Implement CPD in instructor career.	1.5	3.5	0.5	0.5
	Total Marks	3	7	1	1
15. Develop employability	Implement sentences for different situations and rearrange words to create	3	4	1	0.7

skills for the industrial needs. (NOS: MEP/N9475)	meaningful sentences.				
	Exhibit communications skills to manage conflicts & handle criticism in work place.	2	3	1	0.6
	Demonstrate report to become a good entrepreneur.	3	4	1	0.7
	Total Marks	8	11	3	2
16. Develop future skills in Emerging Technology. (NOS: MEP/N9475)	Explain common types of cyber-attacks	0.7		0.2	
	Explain the applications of Data Analytics	0.7		0.2	
	Explain Artificial Intelligence and its different types.	0.6		0.1	
	Explain what AI can do and can't do	0.7		0.2	
	Applications of AI in different fields.	0.7		0.2	
	Explain Machine Learning steps	0.6		0.1	
	Explain features/types/benefits of Robotic Process Automation software tools	0.7		0.2	
	Features, benefits and applications of IoT	0.7		0.2	
	Explain types of block chain	0.6		0.1	
	Basic concepts of Cloud Computing	0.7		0.2	
	Types of 3D printing, advantages and disadvantages.	0.7		0.2	
	Basic concepts of AR/VR/XR	0.6		0.1	
	Total Marks	8	0	2	0
Grand Total	100	200	20	30	

Note: Distribution of marks shown above are indicative only

NSQC APPR

Annexure: Assessment Strategy

(1) Assessment process:

Assessment and Certification of all the trainees will be carried out as per Directorate General of Training (DGT) norms for the trade theory including practical portion conducted in NSTI/IToT workshop. The assessment for the qualification is carried out by conducting formative assessments and summative assessment (end-of-year examination). The internal assessment for each learning outcome is carried out by the concerned trainer 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 internal assessment marks are awarded to them. Theory and practical examinations are conducted in Trade Technology, Engineering Technology and Training Methodology. The question papers for the theory Examinations contain objective type questions. The practical examination at the end of training is conducted at NSTI / IToTs and the marks are uploaded in the portal accordingly.

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

Sl. No.	Subject	Marks	Internal Assessment	Full Marks	Pass Marks	
					Exam	Internal Assessment
1.	Trade Technology	Trade Theory	40	140	40	24
		Trade Practical	200	260	120	36
2.	Training Methodology	TM Practical	30	230	120	18
		TM Theory	100	120	40	12
Total Marks		600	150	750	320	90

(2) Minimum pass marks:

The minimum pass percent for Trade Practical, TM practical Examinations and Formative assessment is 60% & for all other subjects is 40%. There will be no Grace marks.

(3) Testing and certifications for the course:

Controller of examinations, DGT carries out the assessment and issues National Craft Instructor Certificates (NCIC) 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 and impart 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 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 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 Technology, Engineering Technology and Training Methodology.
- While Trade Theory and Trade Practical are used for assessing Trade-related jobs, Workshop Calculation and Science is used to test trainee's numerical skills, Drawing is used to test the ability of the trainee to draw and read sketches and Training Methodology is used to test teaching skills.
- In addition to demonstration of theory and practical knowledge, overall personality of the trainees is also assessed.

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 Training Methodology is done by third-party agency.
- Trade Practical is examined by External Examiner.

Annexure: Acronym and Glossary

Acronym

Acronym	Description
AA	Assessment Agency
AB	Awarding Body
ISCO	International Standard Classification of Occupations
NCO	National Classification of Occupations
NCrF	National Credit Framework
NOS	National Occupational Standard(s)
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework
OJT	On the Job Training

Glossary

Term	Description
National Occupational Standards (NOS)	NOS define the measurable performance outcomes required from an individual engaged in a particular task. They list down what an individual performing that task should know and also do.
Qualification	A formal outcome of an assessment and validation process which is obtained when a competent body determines that an individual has achieved learning outcomes to given standards
Qualification File	A Qualification File is a template designed to capture necessary information of a Qualification from the perspective of NSQF compliance. The Qualification File will be normally submitted by the awarding body for the qualification.
Sector	A grouping of professional activities on the basis of their main economic function, product, service or technology.
Long Term Training	Long-term skilling means any vocational training program undertaken for a year and above. https://ncvet.gov.in/sites/default/files/NCVET.pdf