

**NSQF QUALIFICATION FILE**

**Approved in 6<sup>th</sup> NSQC-NCVET meeting, dated: 25<sup>th</sup> February, 2021**

CNC Wood Working and Machining Operator

**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: Mrs. Sandhya Salwan

Position in the organisation: Deputy Director General  
Address if different from above:

Tel number(s): 011-25802140

E-mail address: sandhya.salwan@nic.in

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

1. Competency-based curriculum with following details:

Model Curriculum to be added which will include the following:

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

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

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### SUMMARY

1	<b>Qualification Title</b>	<b>CNC Wood Working and Machining Operator</b>
2	<b>Qualification Code, if any</b>	DGT/8014
3	<b>NCO code and occupation</b>	7523.9900 – Wood Working Machine Setters and Setter Operators, Others
4	<b>Nature and purpose of the qualification (Please specify whether qualification is short term or long term)</b>	Up-skilling candidates to undertake the job roles of the trade and will enable the individual to enhance their skill sets catering to the need of different sectors of the Industries/ labour market.  It is a Short-term qualification.
5	<b>Body/bodies which will award the qualification</b>	Directorate General of Training (DGT).
6	<b>Body which will accredit providers to offer courses leading to the qualification</b>	Directorate General of Training (DGT) accredits the Training providers (ITIs/ NSTIs/MSTIs/IToT)
7	<b>Whether accreditation/affiliation norms are already in place or not , if applicable (if yes, attach a copy)</b>	Yes. The accreditation/ affiliation norms and any amendments made from time to time are available on DGT web portal.
8	<b>Occupation(s) to which the qualification gives access</b>	7523.9900 – Wood Working Machine Setters and Setter Operators, Others
9	<b>Job description of the occupation</b>	The individual will be able to prepare 2D and 3D program with various tool keys, vector keys, etc. operate CNC router machine and produce items such as door carvings, interior and exterior decorations, wood panels, sign boards, wooden frames, moulding, musical instruments, and furniture.
10	<b>Licensing requirements</b>	NOT REQUIRED

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11	<b>Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)</b>	NOT APPLICABLE		
12	<b>Level of the qualification in the NSQF</b>	Level 5		
13	<b>Anticipated volume of training/learning required to complete the qualification</b>	<b>Sl. No.</b>	<b>Course Element</b>	<b>Notional Training Hours</b>
		1	Professional Skill (Trade Practical)	360
		2	Professional Knowledge (Trade Theory)	120
			Total	480
14	<b>Indicative list of training tools required to deliver this qualification</b>	As per Annexure-I of curriculum.		
15	<b>Entry requirements and/or recommendations and minimum age</b>	<p>NTC (ITI) in Carpenter Trade with one-year experience in relevant field.</p> <p>Eligibility for PwD: LD, CP, LC, DW, AA, DEAF, HH, AUTISM, ID, SLD</p> <p>Minimum age 16 years as on first day of academic session.</p>		
16	<b>Progression from the qualification (Please show Professional and academic progression)</b>	<p>An Individual can proceed for:</p> <hr/> <p>Professional</p> <ul style="list-style-type: none"> <li>• Craftsman</li> <li>• Senior Craftsman</li> <li>• Supervisor</li> <li>• Manager</li> <li>• Entrepreneur</li> </ul>		
17	<b>Arrangements for the Recognition of Prior learning (RPL)</b>	NA		
18	<b>International comparability where known (research</b>	-		

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evidence to be provided)				
19	Date of planned review of the qualification.	5 Yrs. from the Date of Approval		
20	Formal structure of the qualification			
	Mandatory components			
	Title of component and identification code/NOSs/ Learning Outcomes	Estimated size (learning hours)		Level
		Skills	Knowledge	
<b>TRADE SPECIFIC</b>				
(i)	Execute CNC Router interface /control program screen	30	10	5
(ii)	Plan and prepare 2D program with various tool keys, vector keys, etc. and Execute to load program from computer to CNC machine	30	10	5
(iii)	Prepare tool path in 2D and make program with throughout cut.	30	10	5
(iv)	Execute saving of tool path & program file to machine.	30	10	5
(v)	Plan and prepare program with multiple tool use in ATC (Alternative Tool Changing), Installation of tool and mounting of job with zero offset.	60	20	5
(vi)	Prepare job operating CNC router machine and inspect job accuracy.	30	10	5
(vii)	Check drawing and execute operation with various relief functions.	30	10	5
(viii)	Prepare 3D object with the CAD, set machine and make the job.	30	10	5
(ix)	Describe Complex Job designing on CAD, Editing Program and Inspection Process of Job.	30	10	
(x)	Execute application oriented small project	80	0	5

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	<b>Total</b>	<b>480</b>	
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### SECTION 1

#### ASSESSMENT

21	<b>Body/Bodies which will carry out assessment:</b> Controller of Examinations, DGT
22	<b>How will RPL assessment be managed and who will carry it out?</b>  Not Applicable
23	<b>Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, reliable and fair and show that these are in line with the requirements of the NSQF.</b>  <b>(1) Assessment process:</b> The assessment for the qualification is carried out by conducting formative assessments, and end of the course examinations (Summative). The formative assessments in respect of each Learning Outcome for practical and related theory are conducted by the concerned instructors for evaluating the knowledge and skill acquired by trainees and the behavioural transformation of the trainees. The formative assessment is primarily carried out by collecting evidences of competence gained by the trainees by evaluating them at work based on assessment criteria, asking questions and initiating formative discussions to assess understanding and by evaluating records and reports. Summative assessment is carried out on Trade Theory and Trade practical.  <b>(2) Minimum pass marks:</b> The minimum pass percent for Trade Practical and Formative assessment is 60% & for all other subjects is 33%. There will be no Grace marks.  <b>Testing and certifications for the course:</b> Controller of examinations, DGT carries out the assessment following the norms and guidelines issued by the Directorate from time to time.  <b><u>Overall assessment strategy:</u></b> Assessment of the qualification evaluates trainees to show that they can integrate knowledge, skills and values for carrying out relevant tasks as per the defined learning outcomes and assessment criteria. The trainees may

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

**Specific Arrangements for assessment:**

- Assessment is outcome-based.
- There are formative and summative assessments in Theory and Practical.
- Assessment is carried out in Trade theory, Trade Practical.
- While Trade Theory and Trade Practical are used for assessing Trade-related jobs.
- In addition to demonstration of theory and practical knowledge, trainees get a chance to present total personality.

**Quality assurance activities:**

Question papers are set by external paper setters/ software generated.  
Evaluation of Theory Examinations in Trade is done by third-party agency.  
Trade Practical is examined by External Examiner.

**24. Assessment evidences**

**Title of Component: Formative Assessment Breakup**



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### Means of assessment

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

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

### Pass/Fail

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

### LEARNING OUTCOME WITH ASSESSMENT CRITERIA:

LEARNING OUTCOMES	ASSESSMENT CRITERIA
1. Execute CNC Router interface /control program screen.	Explain and identify the CNC –router interface and control programmed screen
	Identify the framework, start panel, project panel and tool setting.
	Identify and explain various key functions with short cut key.
2. Plan and prepare 2D program with various tool keys, vector keys, etc. and Execute to load program from computer to CNC machine.	Identify various tool key and vector key.
	Draw the square, Rectangle, Circle, polygon, and Text in 2D.
	Save the Prepared program and load to CNC machine.
3. Prepare tool path in 2D and make program with	Prepare a model in 2D tool path.
	Prepare and draw the model with throughout cut.
	Start the simulation, check the problem in design tool path

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throughout cut.	and make correction.
4. Execute saving of tool path & program file to machine.	Illustrate saving of Tool Path
	Exhibit saving of the Program in “txt” format.
	Create area clearance Tool path.
5. Plan and prepare program with multiple tool use in ATC (Alternative Tool Changing), Installation of tool and mounting of job with zero offset.	Make program with multiple tool use in ATC
	Demonstrate mounting of tools in collets or tool holder and Indicate zero offset.
	Demonstrate mounting of job on machine table and indicate zero offset
	Enter the program and verify the same.
	Set the Spindle speed, Cycle speed, etc. as per the program.
6. Prepare job operating CNC router machine and inspect job accuracy.	Identify proper switches on control panel
	Move the slide in jog mode and take to reference point to check program trace.
	Prepare job by operating CNC router machine
	Inspect dimensions of the job for its accuracy.
7. Check drawing and execute operation with various relief functions.	Examine drawing in computer by Doctor vector
	Demonstrate tool changing
	Demonstrate operation with the various relief function in program.
8. Prepare 3D object with the CAD, set machine and make the job.	Demonstrate verification of 3D program and simulate it.
	Develop 3D object in CAD CAM Software.
	Construct various complex shapes in the program
	Demonstrate machine setting to cut the required material
	Employ the program and monitor the process.
9. Describe Complex Job designing on CAD, Editing Program and Inspection Process of Job.	Explain designing of complex Job with the help of CAD software.
	Describe making of Tool Path/set tool parameters
	Explain Process of Editing Program/ optional stop & Back ground editing at the time of Auto mode
	Demonstrate Inspection Process / methods / instruments used / report making.
10. Execute application oriented small project.	Develop a small project
	Load the program to machine, execute tool path and simulate the program.
	Demonstrate job holding and tool setting
	Operate the machine and demonstrate preparation of job
	Demonstrate Inspection of finished job

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### SECTION 2

#### 25. EVIDENCE OF LEVEL

##### OPTION A

Title/Name of qualification/component: CNC Wood Working and Machining Operator		Level: 5	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Process	<b>Requires Well Developed Skill</b> <ul style="list-style-type: none"><li>Execute CNC Router interface /control program screen.</li><li>Prepare job operating CNC router machine and inspect job accuracy.</li><li>Prepare 3D object with the CAD, set machine and make the job</li></ul>	<p>In all the learning outcomes for example “Execute CNC Router interface, Prepare job operating CNC router machine, Prepare 3D object with the CAD, set machine and make the job” the learner will be required to study drawing, prepare process plan and sequence of operations, select appropriate tools, as per the requirement of the job.</p> <p>The work requires well developed skill, with clear choice of procedures in familiar context as mentioned in the assessment criteria.</p> <p>Thus the learner requires demonstrating well developed skill, with clear choice of procedures in familiar context.</p> <p>And the NSQF level as per this descriptor will be</p>	5

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Title/Name of qualification/component: CNC Wood Working and Machining Operator			Level: 5
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
		5.	
Professional knowledge	<p><b>Knowledge of facts, Principles, processes and general concepts in a field of work or study</b></p> <ul style="list-style-type: none"> <li>• Concept of making 3D Object with the help of CAD</li> <li>• Concept of Data Transfer CAM software.</li> <li>• Overview for Cutting of a 3D Job with</li> </ul>	<p>The learner will need to be well versed with detailed knowledge of Tool Management of high speed tooling, Preparatory and miscellaneous codes used in the CNC programming (G and M codes), Writing of program by taking different offsets, Generate the program and upload to the Machine, Concept of Data Transfer CAM software, etc.</p> <p>Thus the learner requires knowledge of facts,</p>	5

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NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<p>Rough &amp; Finish operations</p> <ul style="list-style-type: none"> <li>• Inspection Process / methods/instruments used / report making.</li> </ul>	<p>principles, processes and general concepts, in the field of work.</p> <p>Hence, NSQF Level 5 is justified for this component.</p>	
Professional skill	<p><b>A range of cognitive and practical skills required to accomplish tasks and solve problems by selecting and applying basic methods, tools, materials and information.</b></p> <ul style="list-style-type: none"> <li>• Plan and prepare program with multiple tool use in ATC (Alternative Tool Changing), Installation of tool and mounting of job with zero offset.</li> <li>• Prepare job operating CNC router machine and inspect job accuracy.</li> <li>• Describe Complex Job designing on CAD, Editing Program and Inspection Process of Job</li> </ul>	<p>The learner needs to follow /understand the instructions in the drawing and Write part programs, execute the programs and prepare job operating CNC router machine and inspect job accuracy. The trainee will be equipped with a range of cognitive and practical skills required to accomplish tasks and solve problems by selecting and applying basic methods, tools, materials and information.</p> <p>The learner will also be responsible for quality of own work and will use quality tools to check own work to ensure conformance to requirements of the job.</p> <p>Hence it is pegged at NSQF Level 5</p>	5

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Title/Name of qualification/component: CNC Wood Working and Machining Operator			Level: 5
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Core skill	<p><b>Desired Mathematical Skills</b></p> <ul style="list-style-type: none"> <li>• Selection of Speed, Feed, Depth of cut, Work Offsets &amp; Tool offsets.</li> <li>• Writing of CNC program by taking different offsets.</li> </ul> <p><b>Understanding of social/ political</b></p> <ul style="list-style-type: none"> <li>• Understand and explain the concept in productivity, quality tools, and labour welfare legislation and apply such in day to day work to improve productivity &amp; quality.</li> </ul> <p><b>Organising information and communication</b></p> <p>Interpret &amp; use company and technical communication</p> <ul style="list-style-type: none"> <li>• Conduct appropriate and target oriented discussions with higher authority and within the team.</li> </ul>	<p>The learner will have desired mathematical skill for writing CNC programs, understanding of social, political needs ensuring Basic life support, implementation of 5S concept and skill of collecting and organizing information e.g. Preparation of project work report along with inspection report, PPT presentation on Project, etc. with required clarity.</p> <p>Hence NSQF Level is 5 justified for this component</p>	5

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Title/Name of qualification/component: CNC Wood Working and Machining Operator			Level: 5
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Responsibility	<b>Responsibility for own work and learning</b> <ul style="list-style-type: none"><li>Describe Complex Job designing on CAD, Editing Program and Inspection Process of Job</li></ul>	<b>CNC Wood Working &amp; Machining Operator</b> is independently responsible to perform the work as per specifications and their own analysis of what needs to be done based on their understanding of processes, principles and standards. Learning outcomes like “Complex Job designing on CAD, Editing Program and Inspection Process of Job” etc. reveal the same.  Hence NSQF Level is 5 for this descriptor..	5



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### **SECTION 3**

#### **EVIDENCE OF NEED**

26	<p><b>What evidence is there that the qualification is needed? What is the estimated uptake of this qualification and what is the basis of this estimate?</b></p> <table border="1" data-bbox="339 611 1390 1715"><thead><tr><th data-bbox="339 611 628 752"><b>Basis</b></th><th data-bbox="628 611 1390 752"><b>In case of other Awarding Bodies (Institutes under Central Ministries and states departments)</b></th></tr></thead><tbody><tr><td data-bbox="339 752 628 1137">Need of the qualification</td><td data-bbox="628 752 1390 1137">Apparel Sector has a significant presence of organized as well as unorganized skilled manpower requirement. This sector is poised to grow exponentially in the years to come and is highly labor intensive and there are many emerging trends in this sector. Hence the qualification has been designed keeping in view to cater to the ever-increasing demand of skilled manpower in consultation with stakeholders.</td></tr><tr><td data-bbox="339 1137 628 1518">Industry Relevance</td><td data-bbox="628 1137 1390 1518">The job role defined for the qualification is as per the National Classification of Occupations; 2015 which is developed by Employment Directorate under the ministry of Labour and Employment in collaboration with different industry partners and as per ILO guidelines. Moreover, the training is imparted in ITIs/NSTIs/MSTIs/IToT etc. where such requirement is available. This justifies the qualification is very much relevant for industry.</td></tr><tr><td data-bbox="339 1518 628 1644">Usage of the qualification</td><td data-bbox="628 1518 1390 1644">The Proposed qualification will create skilled craftsman for various establishments in Apparel Sector.</td></tr><tr><td data-bbox="339 1644 628 1715">Estimated uptake</td><td data-bbox="628 1644 1390 1715">16200</td></tr></tbody></table>	<b>Basis</b>	<b>In case of other Awarding Bodies (Institutes under Central Ministries and states departments)</b>	Need of the qualification	Apparel Sector has a significant presence of organized as well as unorganized skilled manpower requirement. This sector is poised to grow exponentially in the years to come and is highly labor intensive and there are many emerging trends in this sector. Hence the qualification has been designed keeping in view to cater to the ever-increasing demand of skilled manpower in consultation with stakeholders.	Industry Relevance	The job role defined for the qualification is as per the National Classification of Occupations; 2015 which is developed by Employment Directorate under the ministry of Labour and Employment in collaboration with different industry partners and as per ILO guidelines. Moreover, the training is imparted in ITIs/NSTIs/MSTIs/IToT etc. where such requirement is available. This justifies the qualification is very much relevant for industry.	Usage of the qualification	The Proposed qualification will create skilled craftsman for various establishments in Apparel Sector.	Estimated uptake	16200
<b>Basis</b>	<b>In case of other Awarding Bodies (Institutes under Central Ministries and states departments)</b>										
Need of the qualification	Apparel Sector has a significant presence of organized as well as unorganized skilled manpower requirement. This sector is poised to grow exponentially in the years to come and is highly labor intensive and there are many emerging trends in this sector. Hence the qualification has been designed keeping in view to cater to the ever-increasing demand of skilled manpower in consultation with stakeholders.										
Industry Relevance	The job role defined for the qualification is as per the National Classification of Occupations; 2015 which is developed by Employment Directorate under the ministry of Labour and Employment in collaboration with different industry partners and as per ILO guidelines. Moreover, the training is imparted in ITIs/NSTIs/MSTIs/IToT etc. where such requirement is available. This justifies the qualification is very much relevant for industry.										
Usage of the qualification	The Proposed qualification will create skilled craftsman for various establishments in Apparel Sector.										
Estimated uptake	16200										
27	<p><b>Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences.</b></p> <p>The qualification is designed as a Short-Term training program for up-skilling candidates of different trades in relevant sector which are already</p>										

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

### SECTION 4

#### EVIDENCE OF PROGRESSION

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