

Revision made by NSDA_25 May 2015

QUALIFICATION FILE – CONTACT DETAILS OF SUBMITTING BODY

Name and address of submitting body:

HCSSC,
Handicrafts & Carpet Sector Skill Council,
EPCH House,
Pocket 6 & 7, Sector C,
Vasant Kunj,
New Delhi-110070

Name and contact details of individual dealing with the submission

Name: Rajesh Rawat

Position in the organisation: Chief Executive Officer

Address if different from above

Tel number(s): 011-26139834

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List of documents submitted in support of the Qualifications File

1. Qualification Pack
2. RFP for development of Occupational Standards
3. Selection process of the Consultants to develop Occupational Standards
4. Minutes of the meeting of GC meetings
 - i. Composition of the Technical Committee
 - ii. Approval of Occupational Standards by Technical Committee and Governing Council
5. NSDC Human Resource & Skills Requirement in Handicrafts & Carpet Sector
6. Occupational Map & Progression matrix
7. List of QP/NOS validating companies.

QUALIFICATION FILE SUMMARY

Qualification Title	Modeller (Ceramics) HCS/Q0201		
Body/bodies which will assess candidates	Handicrafts & Carpet Sector Skill Council		
Body/bodies which will award the certificate for the qualification.	Handicrafts & Carpet Sector Skill Council		
Body which will accredit providers to offer the qualification.	Handicrafts & Carpet Sector Skill Council		
Occupation(s) to which the qualification gives access	R&D/Product Development		
Proposed level of the qualification in the NSQF.	4		
Anticipated volume of training/learning required to complete the qualification.	240 hours		
Entry requirements / recommendations.	8th pass		
Progression from the qualification.	Vertical: Product Development Head or Designer Horizontal: Design Assistant		
Planned arrangements for RPL.	RPL arrangements and policies are under development. The guidelines should be ready in 2-3 months.		
International Comparability	Not yet established		
Formal structure of the qualification			
Title of unit or other component (include any identification code used)	Mandatory/ Optional	Estimated size (learning hours)	Level
HCS/N0201 Interpret market and customer cues	Mandatory	40	4
HCS/N0202 Make models for product lines	Mandatory	60	4
HCS/N9901 Coordinate with colleagues and work as a team	Mandatory	20	Common across 1-5 levels
HCS/N9902 Maintain safe work environment	Mandatory	40	Common across 1-5 levels
HCS/N9903 Maintain personal health	Mandatory	40	Common across 1-5 levels
HCS/N9904 Basic business management	Mandatory	40	Common across 1-5 levels

Please attach any document giving further detail about the structure of the qualification – eg a Curriculum or Qualification Pack.

Give details of the document here:

- Qualification Pack is attached as Annexure 1

SECTION 1

ASSESSMENT

Name of assessment body:

If there will be more than one assessment body for this qualification, give details.

Assessment bodies are in the process of affiliation.

Will the assessment body be responsible for RPL assessment?

Yes

Give details of how RPL assessment for the qualification will be carried out and quality assured.

RPL will be based on the same approved Qualification Pack and Assessment Criteria mentioned in the Qualification Pack.

The process of RPL assessment is under development.

Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, consistent and fair and show that these are in line with the requirements of the NSQF:

The assessment strategy is under development.

Please attach any documents giving further information about assessment and/or RPL.

Give details of the document(s) here:

ASSESSMENT EVIDENCE

Complete the following grid for each grouping of NOS, assessment unit or other component as per the assessment criteria. Insert the required number of rows.

CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role : Modeller (Ceramics)

Qualification Pack : HCS/Q0201

Sector Skill Council : Handicrafts & Carpet Sector Skill Council

Guidelines for Assessment:

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below)
4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criteria
5. To pass the Qualification Pack , every trainee should score a minimum of 70% in every NOS
6. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack.

Assessable Outcomes	Assessment Criteria	Total Marks	Out Of	Theory	Skills Practical
HCS/N 0201: Interpret market and customer cues	PC1. elicit the various market and customer cues from the merchandiser/marketing team	100	5	1	4
	PC2. analyze the preferences from the cues		6	2	4
	PC3. understand the reasons for the preferences		4	1	3
	PC4. analyze how the cues can be translated into designs		8	3	5
	PC5. analyze how the designs can spawn product lines		8	3	5
	PC6. analyze if the company is mature to launch the product lines with the designs		4	1	3
	PC7. interface with cross functional teams to brainstorm on the designs		4	1	3
	PC8. select suitable ratios for making designs		7	2	5
	PC9. compute the various parameters to imprint the designs on the model		7	2	5
	PC10. visualize in a three dimensional space how the designs would look		7	2	5
	PC11. make the sample designs using the appropriate tools and templates		6	2	4
	PC12. check if the designs are amenable to the product shape and dimension		5	2	3

	PC13. draw the sample designs with the dimensions		5	2	3
	PC14. devote attention to detail in the designs		4	1	3
	PC15. circulate the sample designs to the moulders		4	1	3
	PC16. file the various sample designs		4	1	3
	PC17. visually examine the designs/models for fidelity with the product		4	1	3
	PC18. ensure that there is no wastage of the materials		4	1	3
	PC19. ensure that the design echoes the market and customer cues		4	1	3
		Total	100	30	70
HCS / N 0202: Make model for product lines	PC1. understand what the end product will be used for	100	3	1	2
	PC2. understand the target customer taste and preference		4	1	3
	PC3. decide on the model specifications like dimensions, overall shape, etc		6	2	4
	PC4. analyze how the designs will fit within the specifications		6	2	4
	PC5. make calculations on the overall design: model ratios		6	2	4
	PC6. decide on the possibility / capability of creating the required design with the resource available		6	2	4
	PC7. decide on the material, time required for creating the design		6	2	4
	PC8. make moulds if required		3	1	2
	PC9. use tools of various size, shapes to carve out the intricate designs		3	1	2
	PC10. select the appropriate raw materials to make the sample mould		4	1	3
	PC11. weigh the materials in the right proportion		3	1	2
	PC12. mix the raw materials appropriately to make the mix		3	1	2
	PC13. ensure the conditions defined by production manager and merchandiser are adhered to when making sample mould for the model		3	1	2
	PC14. dry the mould		3	1	2
	PC15. create a sample craft model using the mould made		3	1	2
	PC16. draw the designs on the model if required		4	1	3
	PC17. inspect the model for fidelity to the original designs		5	1	4

	PC18. analyze if the model can be used in production		4	1	3
	PC19. carry out a test if the model is feasible for production		4	1	3
	PC20. file the overall model design and specification		3	1	2
	PC21. disseminate the specifications from the sample to the mould making team		4	1	3
	PC22. ensure that mould is as per the specification and can be used for casting of craft		4	1	3
	PC23. ensure that there is no wastage of the materials		3	1	2
	PC24. clean the area after the mould and craft making		3	1	2
	PC25. maintain the stock in the design area/studio		4	1	3
		Total	100	30	70
HCS/N9901: Coordinate with colleagues and work as a team	PC1. receive job order and instructions from reporting supervisor	100	4	3	1
	PC2. understand the work output requirements, targets, performance indicators and incentives		5	4	1
	PC3. deliver quality work on time and report any anticipated reasons for delays		5	1	4
	PC4. report on any grievances, production defects and any potential hazards		4	2	2
	PC5. communicate on process flow improvements		4	2	2
	PC6. communicate maintenance and repair schedule proactively to the supervisor		4	1	3
	PC7. receive feedback on work standards		4	2	2
	PC8. interact and clarify doubts on design, usage of materials & tools, quality & standards compliance, etc		5	2	3
	PC9. report in time for shortage or need of raw materials		4	1	3
	PC10. handover completed work to supervisor		4	2	2
	PC11. communicate to the colleagues from within and other departments, clearly and effectively on all aspects to carry out the work among the team		5	2	3
	PC12. maintain the etiquettes, use polite language, demonstrate responsible and disciplined behaviours to the colleagues		5	2	3
	PC13. interact with colleagues from different functions and understand the nature of their work		4	2	2

	PC14. put team over individual goals and multi task or share work where necessary supporting the colleagues		4	2	2
	PC15. resolve conflicts and ensure smooth workflow		4	1	3
	PC16. interact and understand the production requirement for the day from the previous and successive processing department and work accordingly		4	1	3
	PC17. communicate and discuss work flow related difficulties in order to find solutions with mutual agreement		4	1	3
	PC18. receive feedback from Quality Control and rework in order to complete work on time		5	1	4
	PC19. share information with colleagues to enable efficient delivery of work		6	3	3
	PC20. highlight any errors of colleagues, help to rectify and ensure quality output		4	2	2
	PC21. work with cooperation, coordination, communication and collaboration, with shared goals and supporting each other's performance		4	1	3
	PC22. document all the details accurately relating to one's role as required		4	1	3
	PC23. report on the work completed and keep it in records		4	1	3
		Total	100	40	60
HCS/N9902: Maintain safe work environment	PC1. comply with safety procedures while on work to prevent accidents	100	8	2	6
	PC2. take adequate safety measures while handling materials, chemicals and tools		8	2	6
	PC3. wear appropriate personal protective gears such as gloves, protective goggles, masks etc. while working		8	2	6
	PC4. undertake basic safety checks before operation of all tools and electrical equipment		9	2	7
	PC5. wear appropriate and recommended clothing as per the work environment (eg: working in a furnace area)		9	2	7
	PC6. follow recommended material handling procedure to control material and personal damage		8	2	6
	PC7. perform all procedures as per company's work instructions for controlling operational risk		8	4	4
	PC8. perform the duties in a manner which minimizes environmental damage		6	2	4
	PC9. dispose of waste safely and correctly in a designated area as per company's SOP		8	2	6

	PC10. report any accidents, incidents or problems without delay to the supervisor and take necessary immediate action to reduce further danger		8	4	4
	PC11. ensure zero accident at workplace		10	2	8
	PC12. adhere to safety standards and ensure no material damage		10	2	8
		Total	100	28	72
HCS/N9903: Maintain personal health	PC1. always cover the mouth and nose with a dust mask while working and keep on changing when it gets blocked with dust	100	12	4	8
	PC2. follow work instructions strictly to reduce the amount of pollution at the work place e.g. wet the rock / craft material before working on it		10	2	8
	PC3. wear protective goggles over eyes and replace them when scratches on it obscure the vision		10	2	8
	PC4. wear gloves as per the materials used for making handicraft to avoid blisters; scratches and cuts		10	2	8
	PC5. undergo preventive health checkups at regular intervals		10	2	8
	PC6. take prompt treatment from the doctor in case of illness		11	3	8
	PC7. follow SOPs for dealing with blisters; scratches; accidental fires or any other type of emergencies at work		11	4	7
	PC8. ensure no productivity loss or absenteeism from work due to illness		13	3	10
	PC9. ensure no long term ill effect on the personal health		13	3	10
		Total	100	25	75
HCS/N9904: Basic business management	PC1. allot work to the employees of the unit according to their skill and experience	100	3	1	2
	PC2. train the employees of his/her unit with the appropriate skills required to make market relevant and quality products		3	1	2
	PC3. motivate the employees		2	1	1
	PC4. handle the grievances/issues that are raised by the employees		2	1	1
	PC5. manage the employee expectations		2	1	1
	PC6. gather and analyze the cues from the market		2	1	1
	PC7. ascertain the customer preference		3	1	2
	PC8. create product lines based on current market preference		3	1	2
	PC9. create product lines that are unique and able to price high		3	1	2

PC10. price the products according to market trends	3	1	2
PC11. decide the best way to market the product lines	3	1	2
PC12. make a list of raw materials required according to the product lines	2	0	2
PC13. ascertain the quantity and right price to procure the materials	3	1	2
PC14. identify the right locations/agents from where the raw materials can be procured	3	1	2
PC15. negotiate to get the best price	3	0	3
PC16. ensure quality materials are procured	4	1	3
PC17. ensure the procured materials are stored in appropriate conditions	3	1	2
PC18. maintain the bills and record the prices of procurement for future reference	3	1	2
PC19. maintain healthy vendor relationships	3	1	2
PC20. identify the nearest market	3	1	2
PC21. analyze the prevalent price for product lines	3	2	1
PC22. decide on the most effective means to access the market	2	1	1
PC23. plan for cost effective transportation to the market	3	1	2
PC24. position the product according to market requirements	3	1	2
PC25. manage customer expectations	2	0	2
PC26. analyze and ascertain the cost of production	3	1	2
PC27. maintain the book of accounts related to the business	3	1	2
PC28. own and operate a bank account	4	2	2
PC29. identify cost effective means of running business	3	1	2
PC30. identify various aspects of business that require recording	3	2	1
PC31. create formats for recording	3	2	1
PC32. make various records pertaining to all aspects of business	3	2	1
PC33. maintain these records with periodic updation	3	2	1
PC34. maintain necessary documents as per local government and regulatory requirement	3	2	1
PC35. analyze the records and glean various trends from the same	3	2	1
Total	100	40	60

SECTION 2

EVIDENCE OF NEED

What evidence is there that the qualification is needed?

While collecting data from the companies for the occupational map, we also took feedback from industry, which was collected with respect to roles for which qualification packs development, was to be prioritized. This was largely based on volume of people required, quantitative and qualitative shortfall which the Industry feels they face. Governing council of HCSSC gave final approval and endorsement for the same.

What is the estimated uptake of this qualification and what is the basis of this estimate?

Employed in the role: 647; Estimate uptake 600 based on requirements for existing and prospective workforce on the basis of Skills Gap analysis Reports and validation of skill gap study through feedback from industry for demand. An LMIS development initiative is being put in place to be more precise regarding the demand and supply

What steps were taken to ensure that the qualification(s) does/do not duplicate already existing or planned qualifications in the NSQF?

- NSDC list of Approved and Under-Development QPs was checked prior to commissioning the work

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?

- Agencies have been appointed by the SSC to interact with training providers to gather feedback in implementation.
- Monitoring of results of assessments
- Employer feedback will be sought post-placement
- A formal review is scheduled in two year time i.e. 2017

Please attach any documents giving further information about any of the topics above.

Give details of the document(s) here:

- NSDC Human Resource & Skills Requirement in handicrafts & Carpet Sector

SECTION 3

SUMMARY OF DIRECT EVIDENCE OF LEVEL

Justify the NSQF level allocated to the QP. Relate information about the job role and build upon the five descriptors for the level to justify.

Health and safety, Work effectively and a basic business management are common for all roles from NSQF levels 1-5 and cover the minimum in a workplace.

Level 4

Modeller (Ceramics)					HCS/Q0201
Process required	Professional Knowledge	Professional Skills	Core Skills	Responsibility	Level
<p>The incumbent works in familiar and predictable routine of creating models from customer cues and brief in ceramics manufacturing. The situation of clear choice (descriptor of level 4) is evident through the following examples</p> <ul style="list-style-type: none"> • select suitable ratios for making designs • select the appropriate raw materials to make the sample mould • check if the designs are amenable to the product shape and dimension <p>This is not of level 5 which requires clear choice of procedures, as here the procedure is standardised by the direction of the director</p> <p>Example:</p> <ul style="list-style-type: none"> • receive the defects, tests, acceptance criteria and sampling plan list from technical director and understand the same 	<p>The incumbent has factual knowledge of field of knowledge or study which is in this case includes designing</p> <p>Examples:</p> <ul style="list-style-type: none"> • designing principles • 3D perception • shape awareness • the fitment between designs, thickness, product dimensions and end product usage • basic geometry • usage of the right shades <p>This is not level 5 as there is a requirement of principles and general concepts at level 5 which is not required here. Also not level 3 as this level as outlined above requires factual knowledge of field of study and not mere basic facts, process and principle knowledge of trade of employment.</p>	<p>Most of the work involves recall and demonstration of practical skill, is routine and repetitive and in a narrow range of application. The incumbent also uses appropriate rule and tool and quality concepts to complete their work. This is evident through:</p> <ul style="list-style-type: none"> • visualize in a three dimensional space how the designs would look • make the sample designs using the appropriate tools and templates • check if the designs are amenable to the product shape and dimension • draw the sample designs with the dimensions <p>This is not level 5 as it is missing required cognitive skills</p>	<p>The incumbent needs language to communicate written or oral, with required clarity, to interact with customers, various departments, supervisors, personnel and teams, confirm requirements and communicate the same for shared understanding. Also prepare a range of routine documentation.</p> <p>Examples:</p> <ul style="list-style-type: none"> • interface with cross functional teams to brainstorm on the designs • understand the target customer taste and preference • disseminate the specifications from the sample to the mould making team 	<p>The incumbent works with responsibility for own work and learning, which is evident from the incumbent's deliverables and also there is no responsibility for the learning of others therefore this is not level 5.</p> <ul style="list-style-type: none"> • ensure that the design echoes the market and customer cues • decide on the possibility / capability of creating the required design with the resource available • interface with cross 	4

		<p>and range of methods for problem solving.</p> <p>Not level 3 as there is independent work and not mere assisting, at the same time there are variables involved.</p>	<ul style="list-style-type: none"> • interact and understand the production requirement for the day from the previous and successive processing department and work accordingly • communicate and discuss work flow related difficulties in order to find solutions with mutual agreement <p>The incumbent also needs skill pertaining to basic arithmetic and algebraic principles, for calculating various quantities and parameters, etc.</p> <p>For example:</p> <ul style="list-style-type: none"> • weigh the materials in the right proportion • make calculations on the overall design: model ratios • select suitable ratios for making 	<p>functional teams to brainstorm on the designs</p>	
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			designs <ul style="list-style-type: none"> • compute the various parameters to imprint the designs on the model 		
4	4	4	4	4	

OTHER EVIDENCE OF LEVEL [This need only be filled in where evidence other than primary outcomes was used to allocate a level] (**Optional**)

Summary of other evidence (if used):

nil

SECTION 4

EVIDENCE OF RECOGNITION OR PROGRESSION

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?

- Horizontal and vertical mobility options have been articulated in occupational map;
- Vertical: Product Development Head or Designer; Horizontal: Design Assistant

Please attach any documents giving further information about any of the topics above.

Give details of the document(s) here:

- Occupational Map and progression matrix

List of companies validated the QP

S. No	Name of the Organisation	Contact Person	Employee - Size
1	B.L.Ceramic Industries	Sami Ahmad Khan	Small
2	Blue Art Flower Vases works	SP Dadoo	Small
3	Dadoo Industries	Naman Dadoo	Small
4	Krishna Ceramics	Khalid Ahmad	Small
5	Chhabra & Sons	Mohd. Yusuf Khan	Small
6	Gopal Grinding Mills	Hari Dadoo	Small
7	Chhabra Industries	Mohd. Abdiul Raheem Khan	Small
8	Central glass & ceramic research institute	Dr. LK Sharma	Medium
9	Neerja International		Large
10	Minhas Pottery	Rajesh Kumar Tomar	Large
11	Chhatwal Ceramics	Vineet Sharma	Large
12	Silico & Chemico Porcelain Works	Darshan Chhatwal	Large

Further contact details and a copy of the validation are submitted both with NSDC and NSDA