

NSDA Reference

To be added by NSDA

QUALIFICATION FILE – CONTACT DETAILS OF SUBMITTING BODY

Name and address of submitting body:

IPSC

Indian Plumbing Skills Council

B-168/169, Ground Floor,

Okhla Indl. Area Phase 1,

DDA Sheds, New Delhi-110020.

T: +91 11 41513580, 41400556

Name and contact details of individual dealing with the submission

Name: Harpreet Singh

Position in the organisation: Vice President

Address if different from above

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List of documents submitted in support of the Qualifications File

- 1 Composition of the Technical Committee
- 2 RFP for development of Occupational Standards
- 3 Selection process of the Consultants to develop Occupational Standards
- 4 Occupational Map
- 5 Draft MoU with Industry
- 6 Qualification Pack annexure-I
- 7 Career map annexure –II
- 8 List of assessment bodies- Annexure -III

QUALIFICATION FILE SUMMARY

Qualification Title	Bathroom & Kitchen DesignerPSC/ Q0204		
Body/bodies which will assess candidates	IPSC		
Body/bodies which will award the certificate for the qualification.	IPSC		
Body which will accredit providers to offer the qualification.	IPSC		
Occupation(s) to which the qualification gives access	A Bathroom & Kitchen Designer is responsible for design of bathrooms and kitchens in housing setups.		
Proposed level of the qualification in the NSQF.	Level-6		
Anticipated volume of training/learning required to complete the qualification.	440 Hrs		
Entry requirements / recommendations.	Diploma in Civil Engineering / Degree in Architecture or Interior Designing		
Progression from the qualification.	Level -7 Groundwater Engineer, Fire Protection Systems Design Engineer		
Planned arrangements for RPL.	RPL arrangements and policies are under development		
International Comparability	The Technical parts of the NOSs are comparable to Canadian, British and Australian standards. However Numeracy, literacy and basic science levels are lower to match with the existing Indian conditions. Apart from this the Qualification pack, as per the NSDC policy for our country, is for a job role and on a trade or occupation. Following the same there cannot be qualification pack comparability.		
Formal structure of the qualification			
Title of unit or other component (include any identification code used)	Mandatory/ Optional	Estimated size (learning hours)	Level
1. PSC/ N 0204 (Design of plumbing systems in a bathroom and kitchen)	Mandatory	344 Hrs	6

2. PSC/ N 0211 (Work effectively with colleagues)	Mandatory	40 Hrs	Common across level 3,5,6-8
3. PSC/ N 0212 (Keep the working environment healthy, safe and secure)	Mandatory	56 Hrs	Common across level 3,5,6-8

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:

SECTION 1

ASSESSMENT

Name of assessment body:

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

http://ipsc.in/training_assesment_partners.php- Annexure-III

Will the assessment body be responsible for RPL assessment?

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:

PURPOSE OF ASSESSMENT

The purpose of the assessment is to identify if the learner has completely comprehended the technicalities of the job role of a Bathroom & Kitchen Designer and thus, allows learners to progress to the LEVEL 6 and above. It also builds up the personal attributes of the learner to undertake work independently, become a good team player by being a competent listener, apt at taking instructions, and overall develop into a result oriented and positive person comfortable with laborious task of the trade.

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

SCALING METHODS Pass mark: 70%

Unit Knowledge learning outcome	Approximate coverage	Valuation
Knowledge of Designing of plumbing systems in a bathroom and kitchen	Assignments Practical Field work	30%
Knowledge choose suitable techniques for investigation, calculation, and testing to be used in preparation of a detailed design	Assignments and Practical Field work	30%
Understanding of receiving work instructions and discussing the project/design with seniors	Assignments and Practical Field work	20%
Knowledge of time management for the work	Assignments and Practical Field work	10%
Understanding of various safety measures and equipments	Assignments and Practical Field work	10%

Please attach any documents giving further information about assessment and/or RPL.
Give details of the document(s) here:

The assessment comprises of a combination three assessment techniques i.e.

- 1 Practical Assessment
- 2 Viva/ Structured Interview
- 3 Written Assessments

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

Bathroom & Kitchen Designer

204

IPSC

Guidelines for Assessment

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Assessable outcome	Assessable criteria	Total Mark (300 MARKS)	Out Of	Marks Allocation	
				Theor y	Skills Practic al
1. PSC/ N 0204 (Design of plumbing systems in a bathroom and kitchen)	PC1. identify, analyse and prioritise relevant technical, environmental, aesthetic and cost factors which are likely to influence design and execution of the project	100	5	3	2
	PC2. choose suitable techniques for investigation, calculation, and testing to be used in preparation of a detailed design		5	2	3

	PC3. analyse design concepts to identify best fit with the design requirements and constraints		5	3	2
	PC4. guide drafting engineer(s) in preparing initial layout based on selected/ approved design process		5	2	3
	PC5. determine the type and size of various pipes		10	5	5
	PC6. select sanitary products which meet required project/client criteria and industry standards, balancing cost and quality		10	5	5
	PC7. prepare bills of materials (BOMs) for finalized designs if required in the project		10	5	5
		Total	100	50	50
2. PSC/n0211 (work effectively with colleagues)	Pc1. Coordinate all work instructions and discuss with various concerned departments	100	5	2	3
	PC2. Communicate and coordinate task status, repairs and maintenance of tools and equipment as required with various departments		5	3	2

	PC3. Manage any potential hazards and expected process disruptions		10	5	5
	PC4. Get the work reviewed and handover completed task to the concerned department		10	5	5
	PC5. Receive feedback from the concerned department		10	5	5
	PC6. Report any anticipated reasons for delays to the organization		10	5	5
	PC7. Work as a team with colleagues and share work as per the work load and skills		10	5	5
	PC8. Work with colleagues of other teams		10	5	5
	PC9. Communicate and discuss work flow related difficulties in order to find solution with mutual agreement		10	5	5
	PC10. Put team over individual goals		10	5	5
	PC11. Resolve conflicts		10	5	5
		Total	100	50	50
3.PSC/N0212Keep the working environment healthy, safe and secure	Pc1. Comply with organization's current health, safety and security policies and procedures	100	10	5	5
	PC2. Communicate any identified breaches in health, safety, and security policies and procedures to the designated person		15	7	8

	PC3. Identify and remove any hazards that can be dealt safely, competently and within the limits of individual's authority		15	8	7
	PC4. Communicate hazards to the relevant person in line with organizational procedures and warn other people who may be affected		15	7	8
	PC5. Follow organization's emergency procedures promptly, calmly, and efficiently		15	8	7
	PC6. Identify and recommend opportunities for improving health, safety, and security to the designated person		15	7	8
	PC7. Complete any health and safety records legibly and accurately		15	8	7
		Total	100	50	50

SECTION 2

EVIDENCE OF NEED

What evidence is there that the qualification is needed?

- 70 Job roles identified by the Industry including our Governing Board.
- 30-32 job roles were scrutinized and given the project to IMaCS
- 25 job roles finalized after industry interaction during the workshops and individual meetings.

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

25 Job roles were identified after understanding the market need and demand. Our Agency met with around 200 industry people while developing these Qualification Packs. Individual interactions, workshops, Group Discussion were done to identify market demand and need.

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

As mentioned, initially 70 job roles were identified but only 25 job roles finally identified to avoid overlapping. Job roles were approved on the basis of career progression of an Individual.

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?

- Detail Sustainability Plan available

Please attach any documents giving further information about any of the topics above. Give details of the document(s) here:

SECTION 3

SUMMARY EVIDENCE OF LEVEL

Level of qualification: -6

Summary of Direct Evidence:

Justify the NSQF level allocated to the QP by building upon the five descriptors of NSQF.
Explain the reasons for allocating the level to the QP.

Generic NOS is/are linked to the overall authority attached to the job role.

Bathroom & Kitchen Designer/ Q 0204						
Process required	Professional Knowledge	Professional Skills	Core Skills	Responsibility	Level	
Job holder having knowledge of specialised technical skills with clear knowledge of byelaws rules and regulation of the industry. The jobholder will have understanding of standard and non standard practises. Job holder is expected to design plumbing systems in a bathroom and kitchen, preparation of a layout plan as per	Job holder is expected to have theoretical knowledge with experience of field work along with comprehensive knowledge of various bathroom and kitchen fittings and fixtures such as basins, taps, bath tubs, showers, etc. And their market rates, constraints of various design techniques and their impacts, different types of manual	Job holder is expected to have cognitive and practical skills required to generate solutions in field or work area. The job holder is expected to demonstrate skills for use relevant software and produce output in terms of drawings and layouts as per instructions, produce 3D layouts as required, debug and modify common errors in drawings.	The workman at this level (i.e. 6), is expected to do mathematical calculations, understanding of social and political things and good in collecting data by organising information and logical communications. The job holder is expected to perform calculations pertaining to drawing and design. Further it is expected to accept and	The job holder is responsible for identifying, analyzing and prioritise relevant technical, environmental, aesthetic and cost factors which are likely to influence design and execution of the project, choosing suitable techniques for investigation, calculation, and testing to be used in preparation of a detailed design, analyzing design concepts to	6	

<p>project/client requirements, selection of design techniques considering various parameters involved in bathroom and kitchen designing. It is also expected from the job holder determining the size of various pipes and components, selection of fixtures as per project/client requirements, installation of network and fixtures in bathroom and kitchen. Considering above said points ore, it is justified to keep job holder at level 6</p>	<p>drawing tools Software related to drawings and design such as AutoCAD, STAAD Pro, Autodesk Revit, etc., engineering design codes and norms, drawing and design terminologies, the importance of collating feedback on designs, it is justified to keep job holder at level 6</p>	<p>It is also expected from the job holder to design the bathroom and kitchen plumbing system and installations manually considering all design parameters, adhere to relevant codes and regulations while preparing the design. He/she should be able to make decisions on suitable courses of action, identify anomalies in data Ask for clarification and advice from others, apply problem-solving approaches in different situations Therefore Job holder is kept at Level 6</p>	<p>interpret instructions and requirements correctly, follow the instructions of the reporting authority, co-ordinate with co-workers, supervise subordinates, prioritize and complete necessary tasks in a fast-paced environment. Hence can be placed at level-6</p>	<p>identify best fit with the design requirements and constraints, guiding drafting engineer(s) in preparing initial layout based on selected/ approved design process, He/she is also responsible for own work and learning and full responsible for other’s work and learning Ex. Knowledge of Designing of plumbing systems in a bathroom and kitchen Hence can be placed at level 6</p>	
Level 6	Level 6	Level 6	Level 6	Level 6	

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):

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.

Please attach any documents giving further information about any of the topics above.
Give details of the document(s) here:

ANNEXURE -II

