



#### QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR PLUMBING

### What are Occupational Standards(OS)?

- OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- Solution of the understanding when with specifications of the understanding

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#### Introduction

### Qualifications Pack – Plumber (Maintenance & Servicing) Assistant

**SECTOR: PLUMBING INDUSTRY** 

**SUB-SECTOR:**Contractors

**OCCUPATION: Plumbing** 

**REFERENCE ID:** PSC/Q0109

**ALIGNED TO:** NCO-2004/7136.90

Plumber (Maintenance & Servicing) Assistant: Plumber (Maintenance & Servicing) Assistant is an important job role in assistance in service and maintenance of plumbing fittings and fixtures in 'contractors' segment.

**Brief Job Description:** A Plumber (Maintenance & Servicing) Assistant is responsible for assistance in maintenance and servicing of pipes and sanitary fixtures in housing, commercial and institutional setups.

**Personal Attributes:** He should be comfortable in performing laborious work. He should be a good listener. He should be good at taking and following instructions. He should be a good team player. He should be result oriented and positive in attitude.



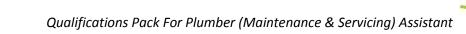


Qualifications Pack Code	PSC/Q0109		
Job Role	Plumber (Maintenance & Servicing) Assistant		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	0.1
Sector	Plumbing	Drafted on	15/07/13
Sub-sector	Contractors	Last reviewed on	30/07/13
Occupation	Plumbing	Next review date	31/01/14

Job Role	Plumber (Maintenance & Servicing) Assistant	
Role Description	Responsible for assistance in maintenance and servicing of pipes and sanitary fixtures in housing, commercial and institutional setups.	
NVEQF/NVQF level	2	
Minimum Educational Qualifications*	5 <sup>th</sup> (To be revised to 9 <sup>th</sup> post 31 <sup>st</sup> December, 2017)	
Maximum Educational Qualifications*	N.A.	
Training (Suggested but not mandatory)	On-the-job training.	
Experience	In lieu of minimum qualification the employee has worked as a semi-skilled helper for minimum 2 years in the same role.	
Applicable National Occupational Standards (NOS)	Compulsory:  1. PSC/ N 0111 (Assistance in maintenance and servicing of plumbing systems)  2. PSC/ N 0108 (Coordinating with senior and other working team)  3. PSC/ N 0109 (Maintain a healthy, safe and secure working environment)  Optional:  4. N.A.	
Performance Criteria	As described in the relevant OS units	



Keywords /Terms	Description
Sector	Sector is a conglomeration of different business operations having similar businesses and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Occupation	Occupation is a set of job roles, which perform similar/related set of functions in an industry.
Function	Function is an activity necessary for achieving the key purpose of the sector, occupation, or area of work, which can be carried out by a person or a group of persons. Functions are identified through functional analysis and form the basis of OS.
Job Role	Job role defines a unique set of functions that together form a unique employment opportunity in an organization.
OS	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the knowledge and understanding they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Performance Criteria	Performance Criteria are statements that together specify the standard of performance required when carrying out a task.
NOS	NOS are Occupational Standards which apply uniquely in the Indian context.
Qualifications Pack Code	Qualifications Pack Code is a unique reference code that identifies a qualifications pack.
Qualifications Pack	Qualifications Pack comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A Qualifications Pack is assigned a unique qualification pack code.
Unit Code	Unit Code is a unique identifier for an Occupational Standard , which is denoted by an 'N'.
Unit Title	Unit Title gives a clear overall statement about what the incumbent should be able to do.
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.
Knowledge and Understanding	Knowledge and Understanding are statements which together specify the technical, generic, professional and organizational specific knowledge that an individual needs in order to perform to the required standard.
Organizational Context	Organizational Context includes the way the organization is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Core Skills or Generic Skills	Core Skills or Generic Skills are a group of skills that are key to learning and working in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.





# Acronyms

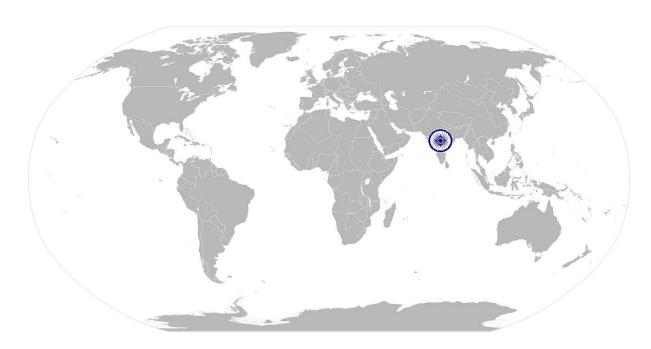
Keywords /Terms	Description
IPSC	Indian Plumbing Skills council
NOS	National Occupational Standards
NSQF	National Skills Qualification Framework
NVEQF	National Vocational Educational Qualification Framework
NVQF	National Vocational Qualification Framework
OS	Occupational Standards
PC	Performance Criteria
QP	Qualification Pack
SSC	Sector Skills Council







## National Occupational Standard



#### **Overview**

This unit is about assistance in maintenance and servicing of pipes and sanitary fixtures in housing, commercial and institutional setups.







Unit Code	PSC/N0111
Unit Title (Task)	Assistance in maintenance and servicing of plumbing systems
Description	This OS unit is about assistance in maintenance and servicing of pipes and sanitary fixtures in housing, commercial and institutional setups
Scope	This unit/task covers the following:
	Maintenance and servicing
	<ul> <li>assistance in diagnosing problems and/or failures in plumbing system and undertaking activities necessary to maintain the system</li> </ul>
Danfarmana Critaria/I	
Performance Criteria(F	·
Element	Performance Criteria
Maintenance and	To be competent, the user/individual on the job must be able to:
Servicing	PC1. assist in diagnosis of problems and/or failures in plumbing system
	PC2. assist in test the joints and fixtures for proper functioning
	PC3. assist in replace and repair of defected parts in plumbing systems
	PC4. clear the work area and waste disposal
	PC5. assist in responding to emergency stations for the purpose of resolving
	immediate safety concerns
Knowledge and Under	standing (K)
A. Organizational	The user/individual on the job needs to know and understand:
Context	KA1. company's policies on: quality and delivery standards, safety and hazards,
	integrity, dress code, etc.
	KA2. risk and impact of not following defined procedures/work instructions
	KA3. how to assist in handover/ takeover of the equipment / work area as per the instructions
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	KB1. basic sanitary fittings (valves, clamps, elbows, etc.) and basic fixtures
	(showers, taps, basins, etc.)
	KB2. basic awareness of techniques related to cutting, bending and joining of
	fittings and fixtures
	KB3. relevant hand and power tools such as wrenches, pliers, screwdriver, power
	drill, pipe cutter, crimping tool, pipe bender, threading tool, hacksaw, metal
	file, hand auger, etc.
	KB4. basic units of measurement
	KB5. material disposal procedure
Skills (S)	







A.	Core Skills/	Communication skills		
	Generic Skills	The user/individual on the job needs to know and understand how to:		
		SA1. communicate in Hindi / regional language		
		Measurement/positioning skills		
		SA2. perform simple measurements and mark positions as per instructions		
		Teamwork		
		SA3. accept and interpret instructions and requirements correctly		
		SA4. follow the instructions of the reporting authority		
		SA5. co-ordinate with co-workers		
В.	<b>Professional Skills</b>	Use of tools and machines		
		The user/individual on the job needs to know and understand how to:		
		SB1. identify tools, equipment and procedures required for maintenance and		
		servicing of piping fixtures and fittings		
		SB2. assist in operating and maintaining tools and equipment		
		Material handling and preparation		
		SB3. carry out preparatory activities as per requirement		
		SB4. stack and store materials and equipment appropriately at the task site		
		SB5. dispose the waste as per the procedure/instructions		

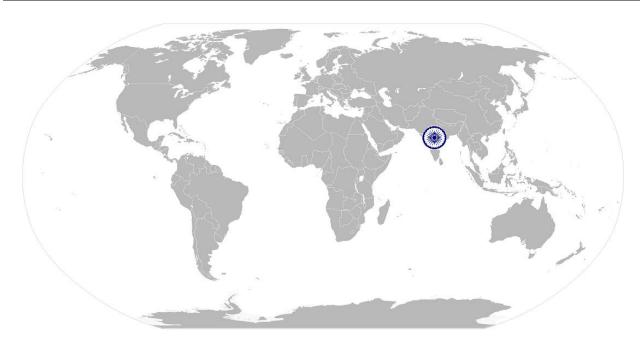






#### **NOS Version Control**

NOS Code	PSC/N0111		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	0.1
Industry	Plumbing	Drafted on	15/07/13
Industry Sub-sector	Contractors	Last reviewed on	30/07/13
		Next review date	31/01/14

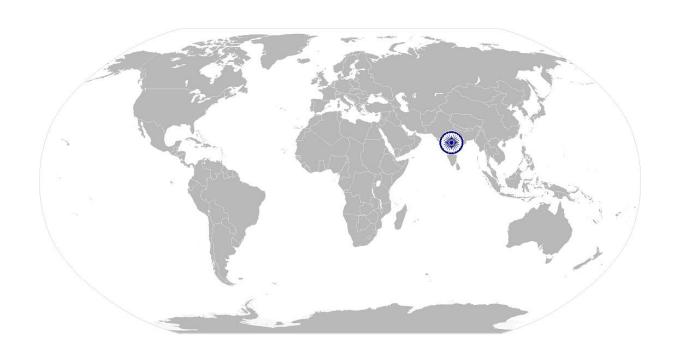








## National Occupational Standard



#### **Overview**

This unit is about team work and level of communication with colleagues or clients. It determines the ability to work as a team member, share work and multi-task in order to achieve the deliverables on schedule.







Unit Code	PSC/N0108		
Unit Title	Coordinating with the senior and other working team		
(Task)	coordinating with the serior and other working team		
Description	This OS unit is about communicating with colleagues and seniors in order to achieve		
	smooth and hazard free work flow		
Scope	This unit/task covers the following:		
	Interact with senior		
	receive work instructions, discuss task status and receive feedback		
	Interact with colleagues within and outside the team		
	<ul> <li>communicate and discuss work flow, problems faced, possible solutions and</li> </ul>		
	pass on the learning within and outside the team		
Performance Criteria(P	C) w.r.t. the Scope		
Element	Performance Criteria		
Interaction with	To be competent, the user/individual on the job must be able to:		
senior	PC1. receive work instructions and raw materials from reporting senior		
	PC2. communicate to reporting senior about task status, repairs and maintenance		
	of tools and equipment as required		
	PC3. communicate any potential hazards and expected process disruptions		
	PC4. handover completed task to reporting senior		
	PC5. receive feedback from reporting senior		
	PC6. report any anticipated reasons for delays		
Interact with	PC7. work as a team with colleagues and share work as per the work load and skills		
colleagues within and	PC8. work with colleagues of other teams		
outside the team	PC9. communicate and discuss work flow related difficulties in order to find		
	solution with mutual agreement		
	PC10. taking instructions from the reporting senior		
	PC11. report problem/incident etc.		
	PC12. put team over individual goals		
	PC13. resolve conflicts		
Knowledge and Unders	erstanding (K)		
A. Organizational	The user/individual on the job needs to know and understand:		
Context	KA1. company's policies on: preferred language of communication, quality delivery		
	standards and personnel management		
	KA2. reporting structure		







В.	Technical	The user/individual on the job needs to know and understand:			
	Knowledge	KB1.	effective ways of communication		
		KB2.	building team co-ordination		
Ski	IIs (S)				
A.	Core Skills/	Commi	unication skills		
	Generic Skills	The use	er/individual on the job needs to know and understand how to:		
		SA1.	communicate in Hindi / regional language		
		Teamw	ork		
		SA2.	share work load as required		
		SA3.	·		
		SA4. co-ordinate with co-workers and sub-ordinates			
В.	<b>Professional Skills</b>	Decision making			
		The use	er/individual on the job needs to know and understand:		
		SB1. how to spot and communicate potential areas of disruptions to work process			
		and report the same			
		SB2. when to report to senior and when to deal with a colleague individually,			
			depending on the type of concern		
		Reflect	ive thinking		
		SB3. improve work processes by interacting with others and adopting best practices			

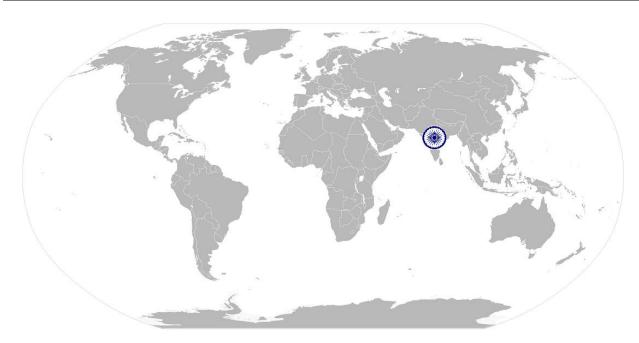






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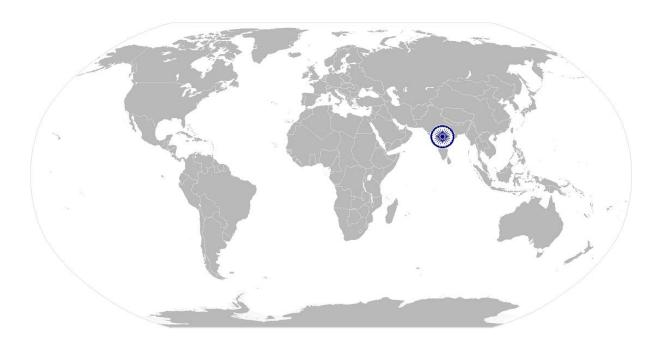






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## National Occupational Standard



#### **Overview**

This unit is about being aware of, communicating and taking steps towards minimizing potential hazards and dangers of accidents on the job and maintaining occupational health and safety.







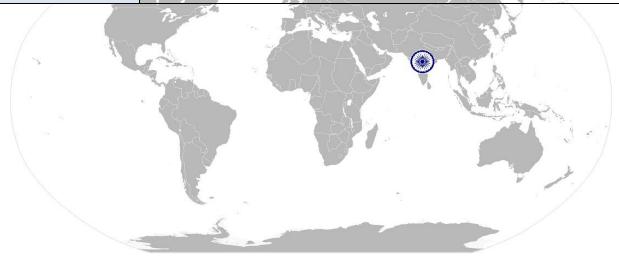
Unit Code	PSC/N0109	
Unit Title (Task)	Maintain a healthy, safe and secure working environment	
Description	This OS unit is about monitoring your working environment and making sure it meets	
	requirements for health and safety	
Scope	This unit/task covers the following:	
	Communicate to reporting senior about	
	process flow improvements that can reduce anticipated or repetitive hazards	
	mishandling of tools and equipment	
	electrical or any other problem at the construction site that could result in	
	accident	
Performance Criteria(P	C) w.r.t. the Scope	
Element	Performance Criteria	
Communicating	To be competent, the user/individual on the job must be able to:	
potential accident	PC1. to avoid accidents related to use of sharp tools and equipment	
points	PC2. attend and actively participate in the alth and safety campaigns organized	
	by the company or any other authority	
Using safety gear and	PC3. use or wear safety gear (helmet, gloves, goggles, safety shoes, ear plugs, etc.)	
following healthy	as per the rules of the company	
practices	PC4. attend fire drills or any other safety drills organized by the company or any	
	other authority	
	PC5. learn first-aid procedure	
	PC6. use insect repellents and safe drinking water	
	PC7. use site toilets and follow other hygienic practices	
	PC8. understand the evacuation and emergency procedures	
Knowledge and Unders	standing (K)	
A. Organizational	The user/individual on the job needs to know and understand:	
Context	KA1. company's policy on: safety and hazards and personnel management	
	KA2. reporting structure	
B. Technical	The user/individual on the job needs to know and understand:	
Knowledge	KB1. how to use tools and equipment without suffering any physical harm	
	KB2. first-aid procedure	
	KB3. diseases caused due use of unsafe water, biting of insects and following	
	unhygienic practices	
	KB4. evacuation and emergency procedures	







Ski	Skills (S)			
A.	Core Skills/	Communication skills		
	Generic Skills	The user/individual on the job needs to know and understand how to:		
		SA1. effectively communicate the danger		
		Organising skills		
		SA2. keep all the tools in an organised manner so as to avoid accidents		
		SA3. keep the work environment safe and clean		
В.	<b>Professional Skills</b>	Decision making		
		The user/individual on the job needs to know and understand how to:		
		SB1. report potential sources of danger		
		SB2. follow prescribed procedure in the event of an accident		
		SB3. wear appropriate safety gear to avoid an accident		
		Reflective thinking		
		SB4. learn from past mistakes regarding use of hazardous tools and equipment		



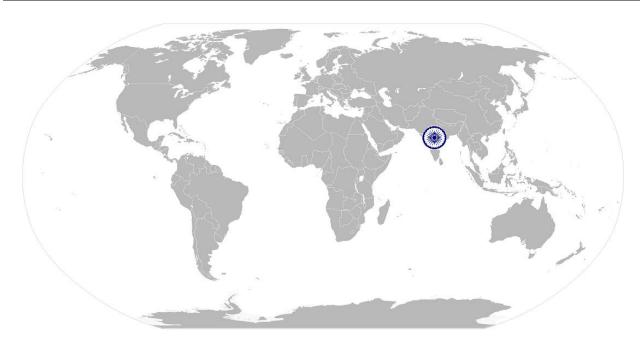






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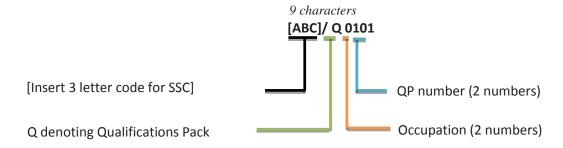




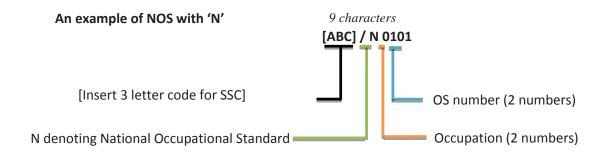
#### **Annexure**

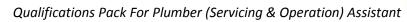
#### Nomenclature for QP and NOS

#### **Qualifications Pack**



#### **Occupational Standard**









The following acronyms/codes have been used in the nomenclature above:

Sub-sector	Range of Occupation numbers
Contractors	01-10
Consultants	11-20
Manufacturers	21-30

Sequence	Description	Example
Three letters	Industry name	PSC
Slash	/	/
Next letter	Whether <b>Q</b> P or <b>N</b> OS	N
Next two numbers	Occupation code	01
Next two numbers	OS number	01