



#### 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 Standards of Standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

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#### Introduction

#### **Qualifications Pack - Plumber (General) Assistant**

**SECTOR: PLUMBING INDUSTRY** 

**SUB-SECTOR:** Contractors

**OCCUPATION:** Plumbing

**REFERENCE ID:** PSC/Q0102

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

**Plumber (General) Assistant:** Plumber (General) Assistant is an important job role in assistance in, preliminary installation and minor repair work of basic plumbing systems in 'contractors' segment.

**Brief Job Description:** A Plumber (General) Assistant is responsible for assistance in, preliminary installation and minor repair work of basic plumbing systems in domestic, 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/Q0102		
Job Role	Plumber (General) Assistant		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	0.1
Sector	Plumbing	Drafted on	30/08/13
Sub-sector	Contractors	Last reviewed on	12/09/13
Occupation	Plumbing	Next review date	31/03/14

Job Role	Plumber (General) Assistant	
Role Description	Responsible for assistance in, preliminary installation and minor repair work of basic plumbing systems in domestic, 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 an unskilled helper for minimum 1 year in the same role.	
Applicable National Occupational Standards (NOS)	Compulsory:  1. PSC/ N 0129 (Assistance in, preliminary installation and minor repair of plumbing system)  2. PSC/ N 0108 (Coordinating with the 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.



#### Qualifications Pack For Plumber (General) Assistant



Acronyms

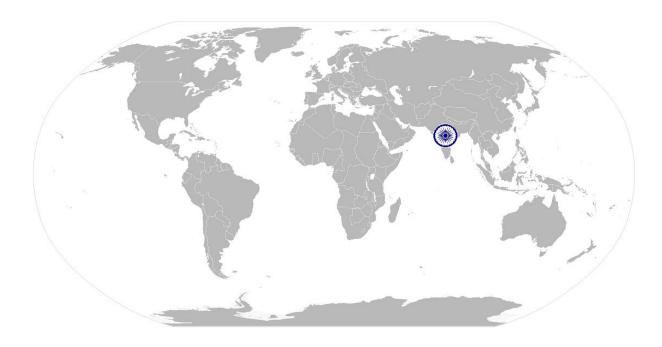
Keywords /Terms	Description
IPSC	Indian Plumbing Skills council
NOS	National Occupational Standards
NSQF	National Skills Qualification Framework
NVEQF	National Vocational Educational Qualification Framework
NVQF	National Vocational Qualification Framework
OS	Occupational Standards
PC	Performance Criteria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







# National Occupational Standard



#### **Overview**

This unit is about assistance and preliminary execution of installation and minor repair work of basic plumbing systems in housing, commercial and institutional setups.







Unit Code	PSC/N0129
Unit Title (Task)	Assistance in, preliminary installation and minor repair of plumbing system
Description	This OS unit is about assistance and preliminary execution of installation and minor
	repair work of basic plumbing systems in housing, commercial and institutional setups
Scope	This unit/task covers the following:
	<ul> <li>Installation</li> <li>assistance and preliminary execution of installation and minor repair work including pre-installation activities like material preparation and tool handling</li> <li>Repair</li> </ul>
	assistance in minor repair and maintenance activities
Performance Criteria(	PC) w.r.t. the Scope
Element	Performance Criteria
Installation	To be competent, the user/individual on the job must be able to:  PC1. assist in assembling pipe sections, and fittings  PC2. assist in cutting, threading and joining pipes and sanitary fixtures  PC3. assist in cutting openings in structures  PC4. install basic fixtures and fittings like taps, pipes etc.
Repair	PC5. assist in assembling fittings, fixtures and tools required for the task PC6. assist inreplacing defected pipes and pipe fittings PC7. assist in using hand and power tools or equipment used for cutting, threading and bending PC8. clear the work area and dispose the waste
Knowledge and Under	standing (K)
A. Organizational Context	The user/individual on the job needs to know and understand:  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 Knowledge	The user/individual on the job needs to know and understand:  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, plier, screwdriver, power		
	drill, pipe cutter, crimping tool, pipe bender, threading tool, hacksaw, metal		
	file, etc.		
	KB4. basic units of measurement		
	KB5. material disposal procedure		
Skills (S)			
A. Core Skills/	Communicationskills		
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 measurementsand 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		
B. Professional Skills	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 installing piping		
	fixtures and fittings		
	SB2. assist in operating and maintaining tools and equipment		
	Material handling and preparation		
	SB3. carry out pre-installation preparation as per requirement or instructions		
	SB4. stack and store materials and equipment appropriately at the task site		
	SB5. dispose the waste as per the procedure/instructions		
	Installation		
	SB6. carry out installation of basic sanitary fixtures and fittings such as taps, pipes,		
	etc.		

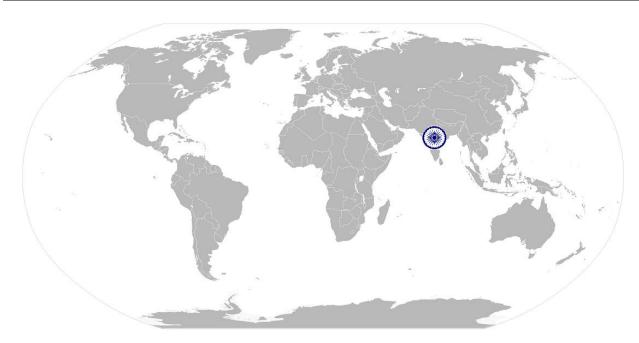






### **NOS Version Control**

NOS Code	PSC /N0129		
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



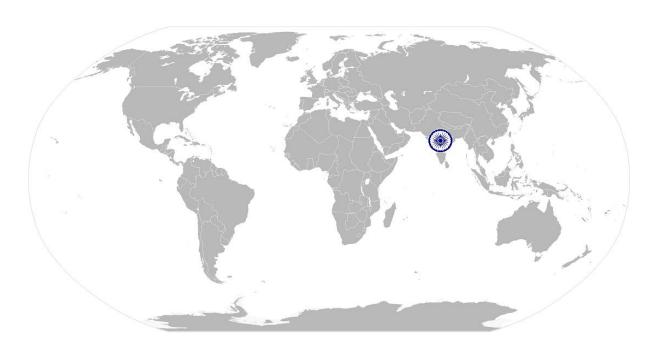






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# National Occupational Standard



#### **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)			
Description	This OS unit is about communicating with colleagues and seniors in order to achieve		
	mooth 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	standing (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.	KB1. effective ways of communication		
		KB2.	building team co-ordination		
Ski	lls (S)				
A.	Core Skills/	Commu	inication skills		
	Generic Skills	The use	r/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.	accept and interpret instructions and requirements correctly		
		SA4. co-ordinate with co-workers and sub-ordinates			
В.	<b>Professional Skills</b>	Decision making			
		The use	r/individual on the job needs to know and understand:		
		SB1. how to spot and communicate potential areas of disruptions to work process			
		12			
		SB2.	when to report to senior and when to deal with a colleague individually,		
			depending on the type of concern		
		Reflecti	ve thinking		
		SB3.	improve work processes by interacting with others and adopting best		
		16,20	practices		

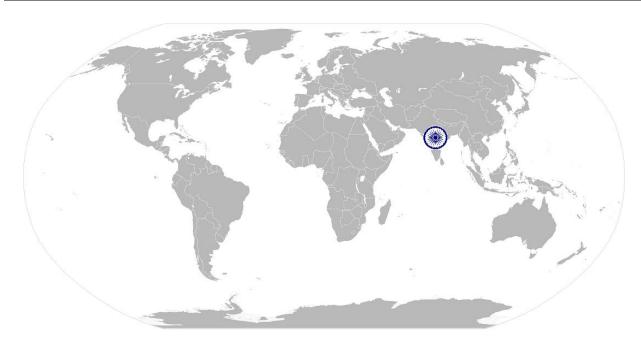






### **NOS Version Control**

NOS Code	PSC/N0108		
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Industry Sub-sector	Contractors	Last reviewed on	30/07/13
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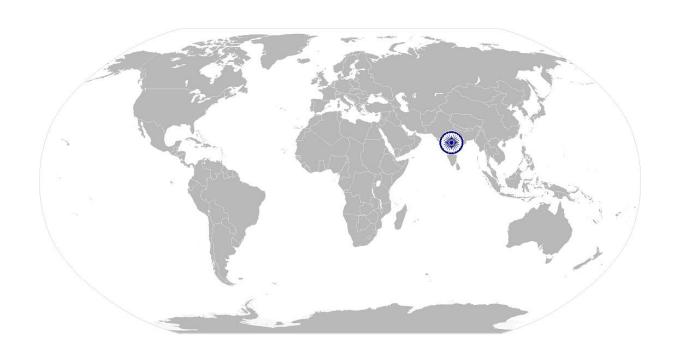






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# National Occupational Standard



#### **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	lls (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		



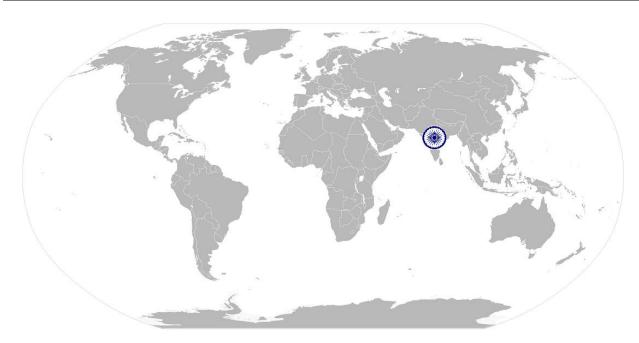






### **NOS Version Control**

NOS Code	PSC /N0109		
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



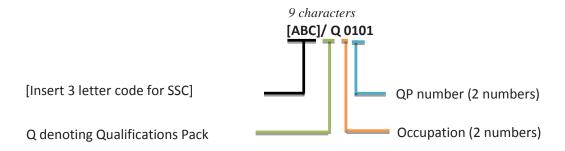




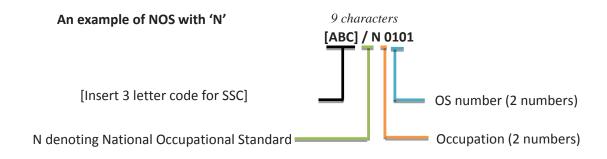
#### **Annexure**

#### **Nomenclature for QP and NOS**

#### **Qualifications Pack**



#### **Occupational Standard**





#### Qualifications Pack For Plumber (General) Assistant



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