



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
- OS are performance 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) Helper

SECTOR: PLUMBING INDUSTRY

SUB-SECTOR: Contractors

OCCUPATION: Plumbing

REFERENCE ID: PSC/Q0101

ALIGNED TO: NCO-2004/7136.90

Plumber (General) Helper: Plumber (General) Helper is an important job role in assistance in installation and repair of plumbing fittings and fixtures in 'contractors' segment.

Brief Job Description: A Plumber (General) Helper is responsible for helping Plumber (General) by carrying and handling of tools and materials required in installation, minor repair and maintenance of plumbing systems.

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/Q0101 | | |
|-------------------------------------|--------------------------|------------------|----------|
| Job Role | Plumber (General) Helper | | |
| 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 (General) Helper | |
|--|---|--|
| Role Description | Responsible for helping Plumber (General) by carrying and handling of tools and materials required in installation, minor repair and maintenance of plumbing systems. | |
| NVEQF/NVQF level | 1 | |
| Minimum Educational Qualifications* | 5 th (To be revised to 8 th post 31 st 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 6 months in the same role. | |
| Applicable National Occupational Standards (NOS) | Compulsory: 1. PSC/ N 0110 (Assistance in installation and repair of basic plumbing systems) 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) Helper



Acronyms

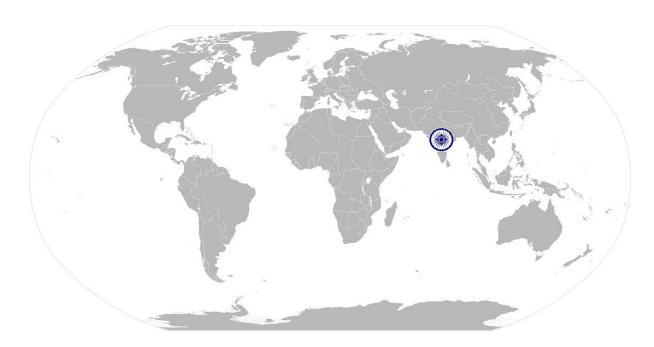
| Keywords /Terms | Description |
|-----------------|---|
| IPSC | Indian Plumbing Skills council |
| NOS | National Occupational Standards |
| NSQF | National Skills Qualification Framework |
| NVEQF | National Vocational Educational Qualification Framework |
| NVQF | National Vocational Qualification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







National Occupational Standard



Overview

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







| Unit Code | PSC/N0110 | |
|------------------------|--|--|
| Unit Title (Task) | Assistance in installation and repair of basic plumbing systems | |
| Description | This OS unit is about assistance in installation and repair of pipes and sanitary fixtures in housing, commercial and institutional setups | |
| Scope | This unit/task covers the following: | |
| | 3 | |
| | Installation | |
| | assistance in installation including pre-installation activities like material | |
| | preparation and tool handling | |
| | Repair | |
| | assistance in repair activities | |
| Performance Criteria(P | C) 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, tubing and fittings | |
| | PC2. assist in cutting, threading and joining pipes and sanitary fixtures | |
| | PC3. assist in cutting openings in structures | |
| Repair | PC4. assist in assembling fittings, fixtures and tools required for the task | |
| | PC5. assist in replacing defected pipes and pipe fittings | |
| | PC6. assist in using hand and power tools or equipment used for cutting, threading | |
| | and bending | |
| | PC7. clear the work area and dispose the waste | |
| Knowledge and Unders | 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 | | |
| Sk | ills (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. | 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 | | |
| | | * | | |

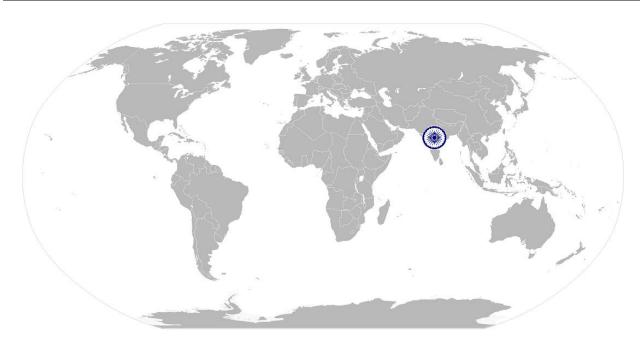






NOS Version Control

| NOS Code | PSC /N0110 | | |
|-------------------------------------|-------------|------------------|----------|
| 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 |



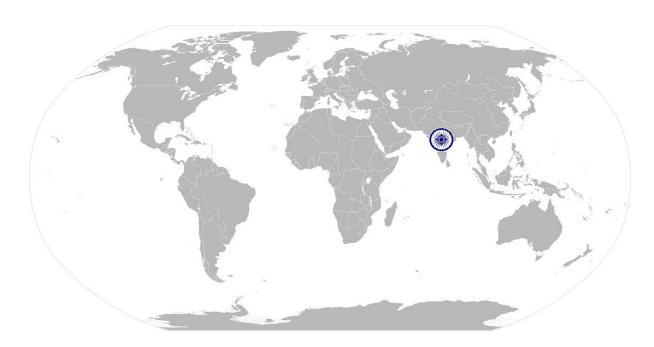






PSC/N0108 Coordinating with the senior and other working team

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.



National Occupational Standards



PSC/N0108 Coordinating with the senior and other working team

| Unit Code | PSC/N0108 | | |
|------------------------|---|--|--|
| Unit Title | Coordinating with the senior and other working team | | |
| (Task) | Good aminating and a fine borner and content are named at a fine borner. | | |
| 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 | | |
| | communicate and discuss work flow, problems faced, possible solutions and | | |
| | 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 | | |







PSC/N0108 Coordinating with the senior and other working team

| В. | Technical | The us | The user/individual on the job needs to know and understand: | | |
|-----|----------------------------|--|---|--|--|
| | Knowledge | KB1. | effective ways of communication | | |
| | | KB2. | building team co-ordination | | |
| Ski | lls (S) | | | | |
| A. | Core Skills/ | Comm | unication skills | | |
| | Generic Skills | The us | er/individual on the job needs to know and understand how to: | | |
| | | SA1. | communicate in Hindi / regional language | | |
| | | Teamv | vork | | |
| | | SA2. | share work load as required | | |
| | | SA3. | accept and interpret instructions and requirements correctly | | |
| | | SA4. co-ordinate with co-workers and sub-ordinates | | | |
| В. | Professional Skills | Decision making | | | |
| | | The user/individual on the job needs to know and understand: | | | |
| | | SB1. how to spot and communicate potential areas of disruptions to work process | | | |
| | | 72 | and report the same | | |
| | | SB2. | | | |
| | | | depending on the type of concern | | |
| | | Reflect | tive thinking | | |
| | | SB3. improve work processes by interacting with others and adopting best practices | | | |



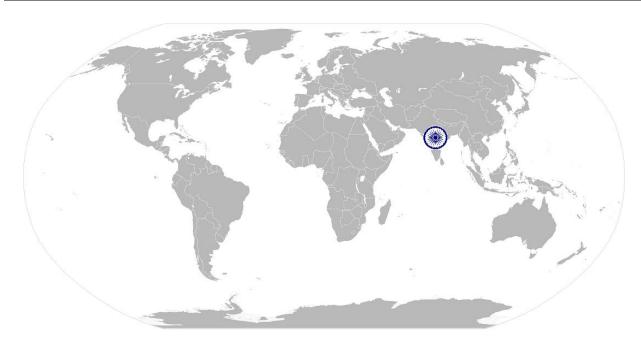




PSC/N0108 Coordinating with the senior and other working team

NOS Version Control

| NOS Code | PSC/N0108 | | |
|-------------------------------------|-------------|------------------|----------|
| Credits(NVEQF/NVQF/NSQF) [OPTIONAL] | TBD | Version number | 0.1 |
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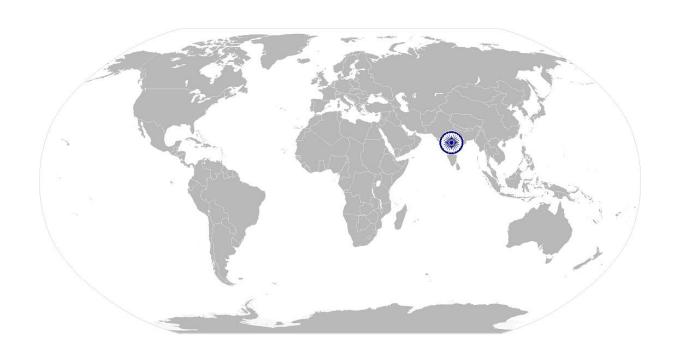






PSC/N0109 Maintain a healthy, safe and secure working environment

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.



National Occupational Standards



PSC/N0109 Maintain a healthy, safe and secure working environment

| Unit Code | PSC/N0109 | | |
|------------------------|---|--|--|
| Unit Title | Maintain a healthy, safe and secure working environment | | |
| (Task) | | | |
| 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 | | |







PSC/N0109 Maintain a healthy, safe and secure working environment

| 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. | Professional Skills | 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 | | |





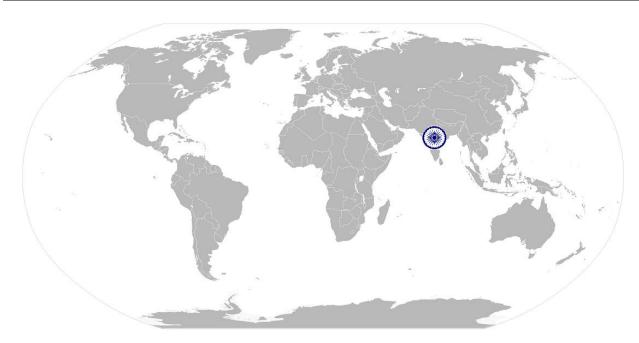




PSC/N0109 Maintain a healthy, safe and secure working environment

NOS Version Control

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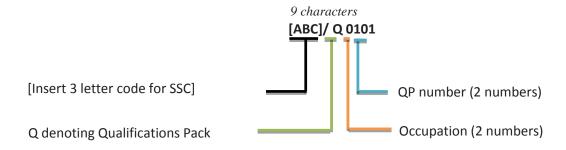




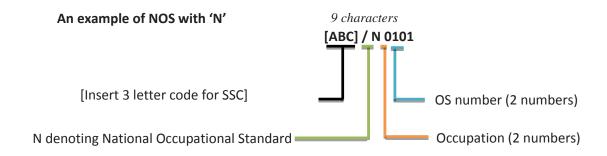
Annexure

Nomenclature for QP and NOS

Qualifications Pack



Occupational Standard





Qualifications Pack For Plumber (General) Helper



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 Q P or N OS | N |
| Next two numbers | Occupation code | 01 |
| Next two numbers | OS number | 01 |