

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

Contact Us:

Indian Plumbing Skills Council
B/ 168-169, DDA Complex
Okhla, Phase 1
New Delhi 110020, India
Phone: +91-11-41513580
+91-11-41400556
E-mail: ipssc@ipssc.co.in



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Introduction

Qualifications Pack – Fire Protection Systems Design Engineer

SECTOR: PLUMBING INDUSTRY

SUB-SECTOR: Consultants

OCCUPATION: Plumbing

REFERENCE ID: PSC/ Q 0205

ALIGNED TO: NCO-2004/ 2142.45

Fire Protection Systems Design Engineer: Fire Protection Systems Design Engineer is an important job role in 'consultants' segment of plumbing industry. This job role requires the individual to design of hydraulic fire-fighting system of a building/structure.

Brief Job Description: A Fire Protection Systems Design Engineer is responsible for design of hydraulic fire-fighting system of a building/structure.

Personal Attributes: He should be able to work independently on his assignment. He should have problems solving skills through creative and innovative thinking. He should be a good team leader. He should be result oriented and positive in attitude.

Job Details	Qualifications Pack Code	PSC/ Q 0205		
	Job Role	Fire Protection Systems Design Engineer		
	Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	0.1
	Sector	Plumbing	Drafted on	01/09/13
	Sub-sector	Consultants	Last reviewed on	30/10/13
	Occupation	Plumbing	Next review date	30/04/14

Job Role	Fire Protection Systems Design Engineer
Role Description	Responsible for design of hydraulic fire-fighting system of a building/structure
NVEQF/NVQF level	7
Minimum Educational Qualifications*	Diploma in Civil / Mechanical Engineering
Maximum Educational Qualifications*	N.A.
Training (Suggested but not mandatory)	On-the-job training.
Experience	Minimum 4 years of relevant experience of working on fire-fighting projects
Applicable National Occupational Standards (NOS)	<p>Compulsory:</p> <ol style="list-style-type: none"> 1. PSC/ N 0208 (Design of hydraulic fire protection systems) 2. PSC/ N 0202 (Supervision and review of drawing works in a project) 3. PSC/ N 0209 (Management of a design project) 4. PSC/ N 0211 (Work effectively with colleagues) 5. PSC/ N 0212 (Maintain a healthy, safe and secure working environment) <p>Optional:</p> <ol style="list-style-type: none"> 6. N.A.
Performance Criteria	As described in the relevant OS units

Definitions

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.

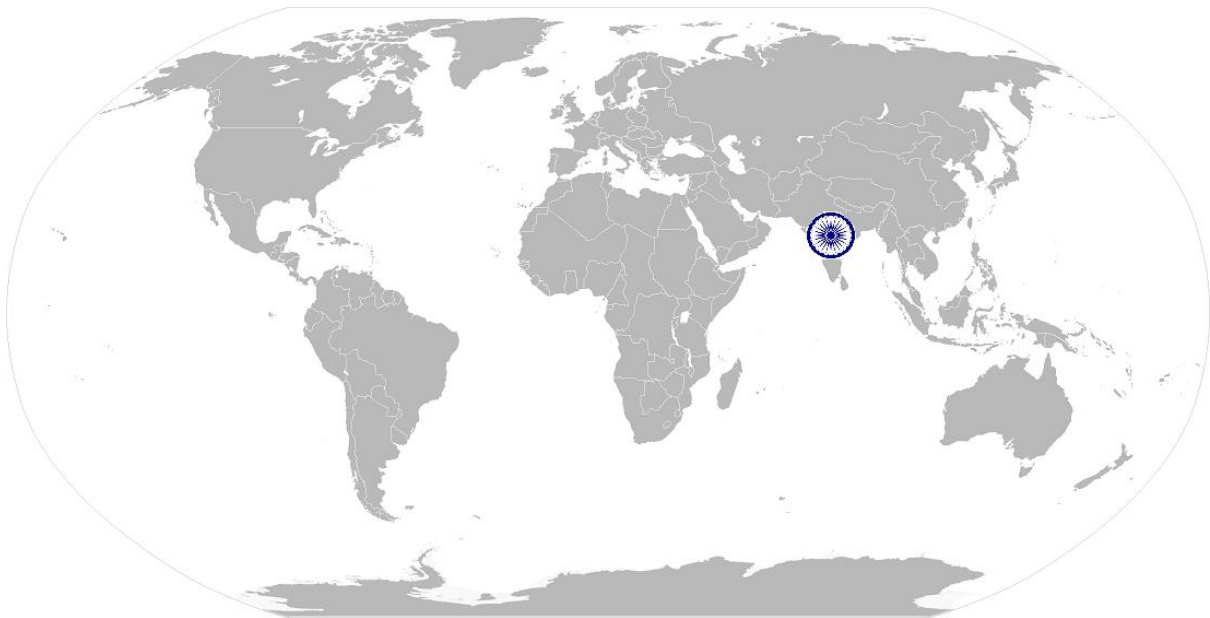
Acronyms

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



PSC/N0208 Design of hydraulic fire protection systems

National Occupational Standard



Overview

This unit is about design of hydraulic fire protection systems as per the requirement of housing / commercial / institutional setups and in adherence to the applicable laws and regulations.



PSC/N0208 Design of hydraulic fire protection systems

Unit Code	PSC/N0208
Unit Title (Task)	Design of hydraulic fire protection systems
Description	This OS unit is about design of hydraulic fire protection systems as per the requirement of housing / commercial / institutional setups and in adherence to the applicable laws and regulations
Scope	<p>This unit/task covers the following:</p> <p>Review and inspection</p> <ul style="list-style-type: none"> inspection and evaluation of a building for the hydraulic fire-fighting system requirement inspection and evaluation of any installed hydraulic fire-fighting system for any renovation work <p>Layout preparation</p> <ul style="list-style-type: none"> preparation of preliminary layout of the system as per requirement <p>Fire-fighting system design</p> <ul style="list-style-type: none"> preparation of detailed hydraulic fire-fighting system design as per layout and in adherence to the applicable laws and regulations
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Review and inspection	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC1. inspect and evaluate a building (housing, commercial or institutional) and other systems for the hydraulic fire-fighting system requirement</p> <p>PC2. inspect and evaluate any installed system such as detection system and sprinkler system for any renovation requirement</p> <p>PC3. access existing documents, design standards, templates and design tools from organization's knowledge base</p>
Layout preparation	<p>PC4. identify, analyse and prioritise relevant technical, environmental and cost factors which are likely to influence design and execution of the hydraulic fire-fighting system</p> <p>PC5. choose suitable techniques for investigation, calculation, and testing to be used in preparation of a detailed system design</p> <p>PC6. analyse design concepts to identify best fit with the design requirements and constraints</p> <p>PC7. guide drafting engineer(s) in preparing initial layout based on selected/</p>



PSC/N0208 Design of hydraulic fire protection systems

	approved design process
Fire-fighting system design	<p>PC8. estimate total water requirement as per the size of building</p> <p>PC9. develop detailed system design including network design, detections system design, fire alarm system design and sprinkler system design</p> <p>PC10. develop detailed network design indicating location, type, length and diameter of various pipes and its accessories</p> <p>PC11. estimate the capacity of water mains</p> <p>PC12. conform to applicable laws, codes and regulations</p> <p>PC13. select products which meet required project criteria and industry standards, balancing cost and quality</p> <p>PC14. provide the project stakeholders with enough relevant and accurate information to agree on the detailed system design</p> <p>PC15. review documents with appropriate people and incorporate their inputs</p> <p>PC16. prepare bills of materials (BOMs) for finalized system design if required in the project</p>
Knowledge and Understanding (K)	
A. Organizational Context	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. company's policies on: quality and delivery standards, design norms, safety and hazards, integrity, laws and codes, compliances, and guidelines for knowledge sharing</p> <p>KA2. the purpose and scope of the work to be carried out and the importance of keeping within those boundaries</p> <p>KA3. who to involve when developing network designs and their roles and responsibilities</p> <p>KA4. the importance of verifying data and other information obtained for the design</p> <p>KA5. risk and impact of not following defined codes and norms</p>
B. Technical Knowledge	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. various site/other system evaluation techniques</p> <p>KB2. probable issues that can occur during execution because of faulty design</p> <p>KB3. fire protection engineering methods and practices</p> <p>KB4. safety practices to be followed in structures where hazardous solids, liquids, or gases are to be manufactured, used or stored</p> <p>KB5. applicable building codes and fire-fighting system designing norms</p> <p>KB6. fire-fighting equipments, its uses and limitations</p> <p>KB7. comprehensive knowledge of various materials used in hydraulic fire-fighting system and their market rates</p>



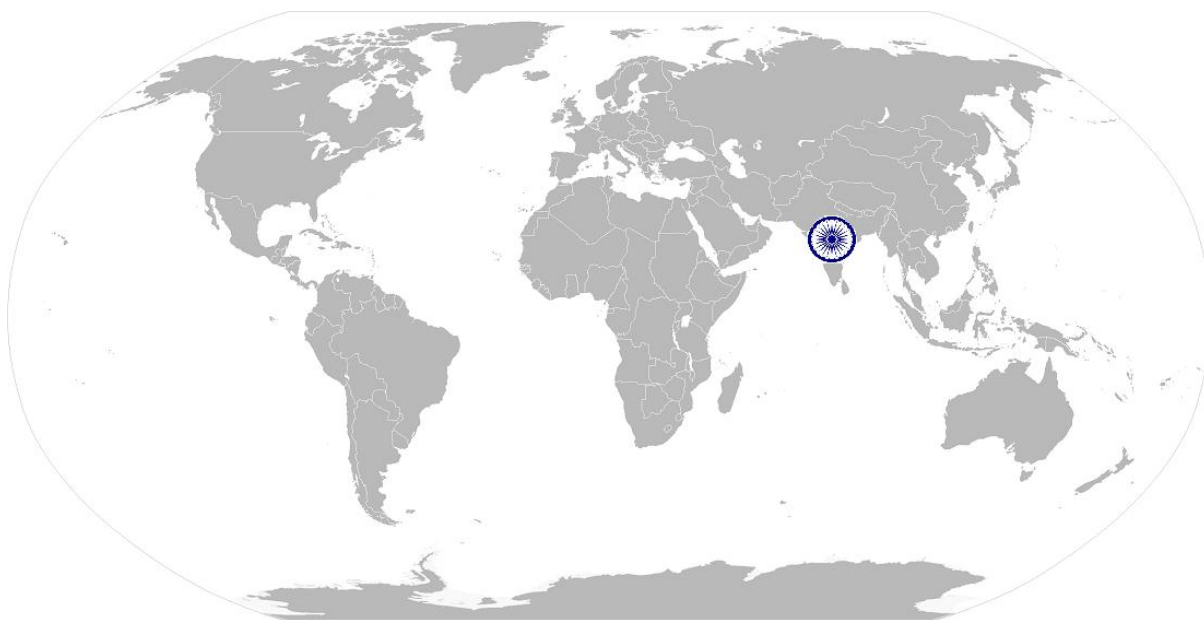
PSC/N0208 Design of hydraulic fire protection systems

	<p>KB8. the nature and characteristics of fire and related hazards</p> <p>KB9. manual and automatic fire detection systems</p> <p>KB10. hydraulic principles related to design of fire-fighting system such as fluid mechanics, flow dynamics, etc.</p> <p>KB11. various designing parameters such as amount of water flow, pressure, velocity, etc.</p> <p>KB12. various design techniques that can be used, their constraints and impacts</p> <p>KB13. different types of manual drawing tools</p> <p>KB14. software related to drawings and design such as AutoCAD, Microsoft Project, etc.</p> <p>KB15. design codes and norms related to hydraulic fire-fighting system design</p> <p>KB16. drawing and system design terminologies</p> <p>KB17. the importance of collating feedback on designs</p>
Skills (S)	
A. Core Skills/ Generic Skills	Communication skills
	The user/individual on the job needs to know and understand how to:
	SA1. communicate in Hindi, English and/or regional language
	Measurement/calculation skills
	SA2. perform measurements/testing as per requirements
	SA3. perform calculations pertaining to drawing and design
	Teamwork
	SA4. accept and interpret instructions and requirements correctly SA5. follow the instructions of the reporting authority SA6. co-ordinate with co-workers SA7. supervise sub-ordinates SA8. prioritize and complete necessary tasks in a fast-paced environment
B. Professional Skills	Software usage
	The user/individual on the job needs to know and understand how to:
	SB1. use relevant software and produce output in terms of drawings and layouts as per instructions
	SB2. produce 3D network layouts as required
	SB3. debug and modify common errors in drawings/layout preparation
	Designing skills
	SB4. design the network and its associated systems manually considering all design parameters
	SB5. adhere to relevant codes and regulations while preparing the design
	SB6. use relevant designing software



PSC/N0208 Design of hydraulic fire protection systems

	Manual sketching
	SB7. produce output in form of manual drawings and sketches
	SB8. ensure accuracy and scale in the manual sketches
	SB9. do a preliminary review of drawings and layouts for compliance of norms

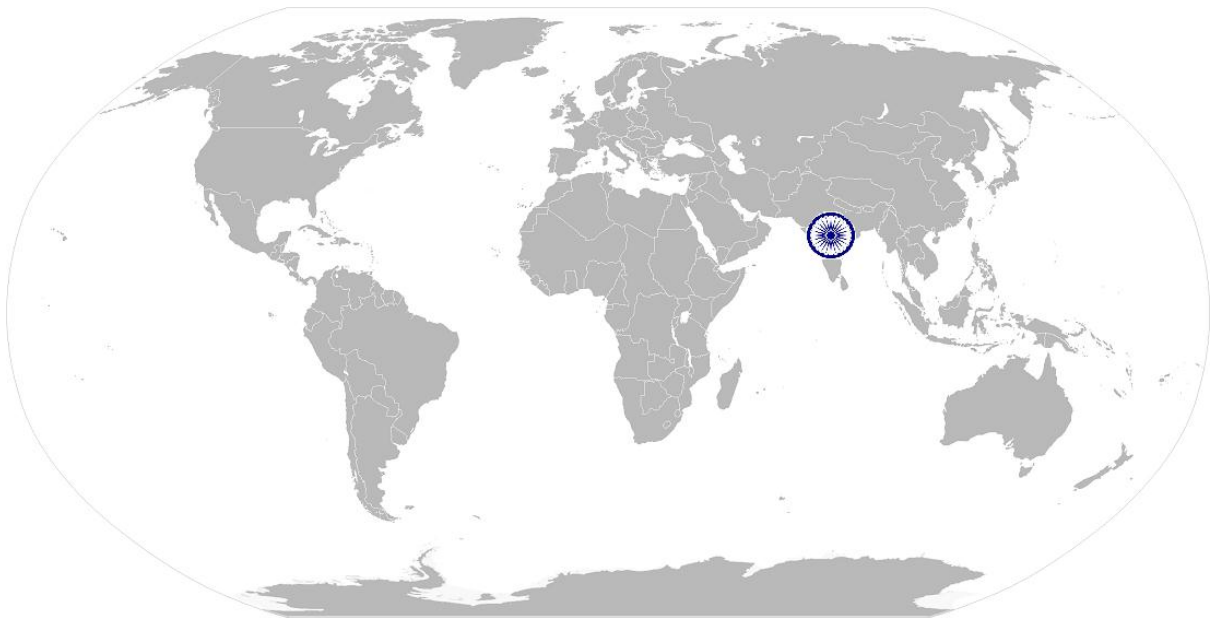




PSC/N0208 Design of hydraulic fire protection systems

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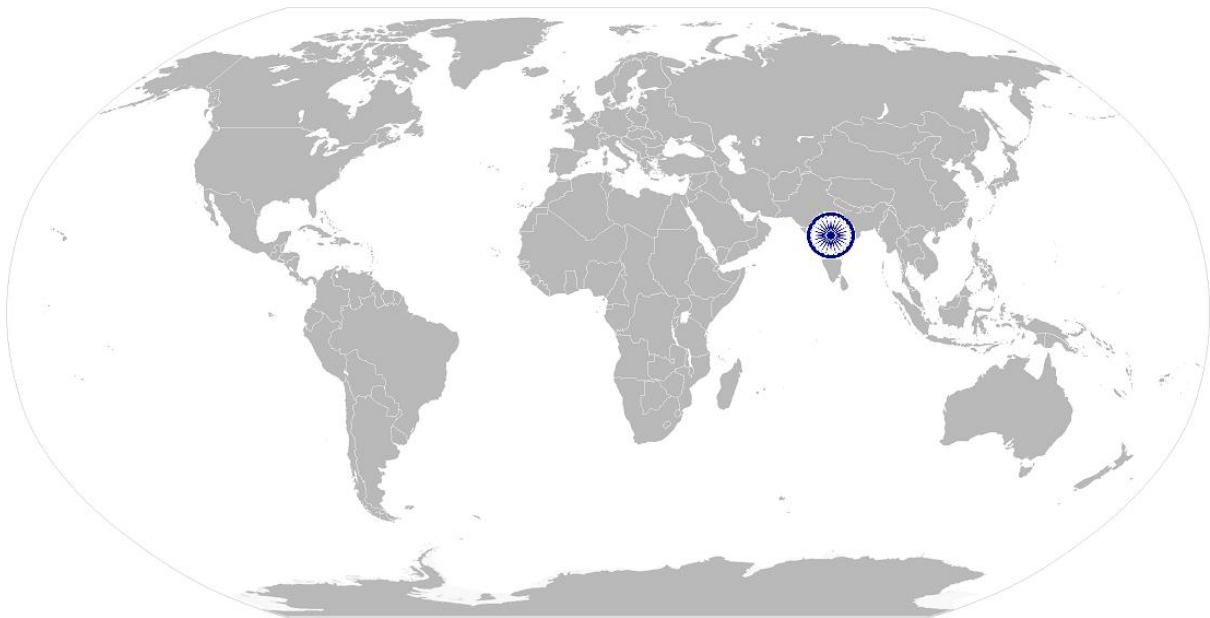
NOS Code	PSC/N0208		
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Industry	Plumbing	Drafted on	01/09/13
Industry Sub-sector	Consultants	Last reviewed on	30/10/13
		Next review date	30/04/14





PSC/N0202 Supervision and review of drawing works in a project

National Occupational Standard



Overview

This unit is about supervision and review of basic drawings prepared by draftsmen related to plumbing projects.



PSC/N0202 Supervision and review of drawing works in a project

Unit Code	PSC/N0202
Unit Title (Task)	Supervision and review of drawing works in a project
Description	This OS unit is about supervision and review of basic drawings prepared by draftsmen related to plumbing projects
Scope	<p>This unit/task covers the following:</p> <p>Supervision and review</p> <ul style="list-style-type: none"> supervision and review of drawings prepared by draftsmen
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Supervision and review	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC1. instruct draftsmen regarding the project specification and corresponding drawing preparation</p> <p>PC2. supervise the work of a team of plumbing draftsmen</p> <p>PC3. review final drawings in terms of project requirements and code compliance</p> <p>PC4. answer internal and external queries related to drawings</p> <p>PC5. maintain records and files of the previous drawing works</p>
Knowledge and Understanding (K)	
A. Organizational Context	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. company's policies on: quality and delivery standards, safety and hazards, integrity, code, compliance, etc.</p> <p>KA2. risk and impact of not following defined codes and norms</p>
B. Technical Knowledge	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. software related to drawings such as AutoCAD, Autodesk Revit, etc.</p> <p>KB2. knowledge of plumbing principles</p> <p>KB3. drawing codes and norms</p> <p>KB4. drawing and design terminologies</p> <p>KB5. common drawing errors and their resolution</p>
Skills (S)	
A. Core Skills/ Generic Skills	Communication skills
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA1. communicate in Hindi, English and/or regional language</p>
	Measurement/calculation skills
	<p>SA2. perform measurements as per requirement</p> <p>SA3. perform basic and advance calculations pertaining to drawing and design</p>



PSC/N0202 Supervision and review of drawing works in a project

	Teamwork
	SA4. accept, interpret and provide instructions and requirements correctly SA5. co-ordinate with co-workers and sub-ordinates SA6. prioritize and complete necessary tasks in a fast-paced environment
B. Professional Skills	Software usage
	The user/individual on the job needs to know and understand how to:
	SB1. use relevant software and produce output in terms of drawings and layouts as per requirements
	SB2. produce 3D layouts as required
	SB3. debug and modify common errors in drawings
	Manual sketching
	SB4. produce output in form of manual drawings and sketches
	SB5. ensure accuracy and scale in the manual sketches
	Review and supervision
	SB6. do a comprehensive review of drawings and layouts for compliance of norms
	SB7. instruct and continually guide and monitor drawing preparation by draftsmen

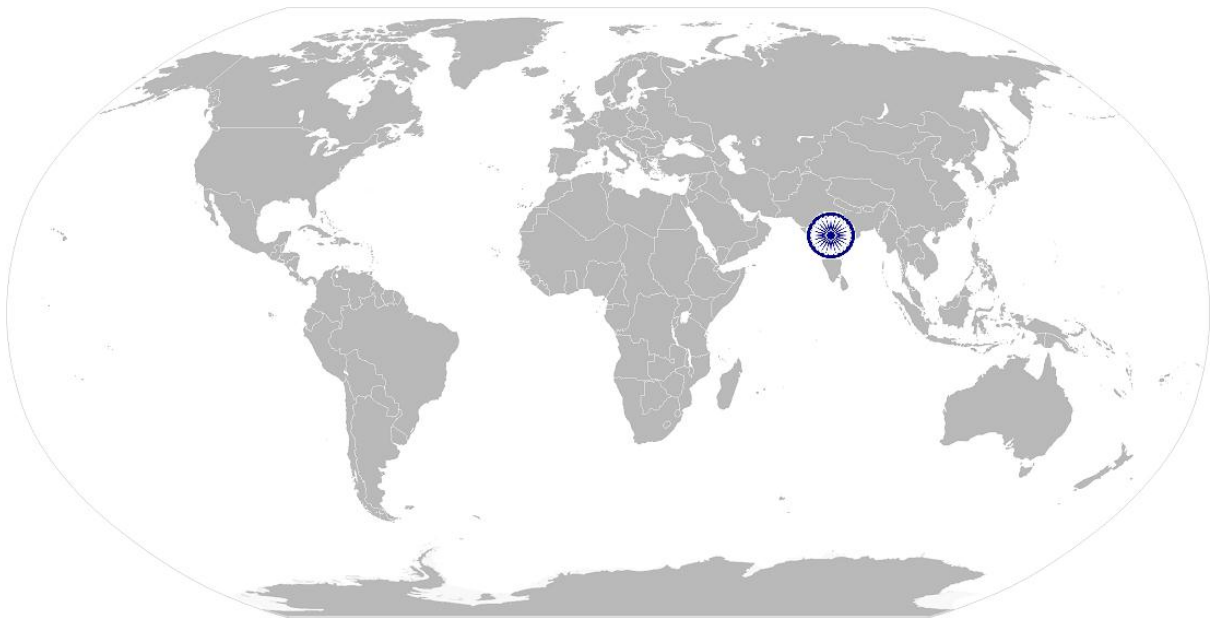




PSC/N0202 Supervision and review of drawing works in a project

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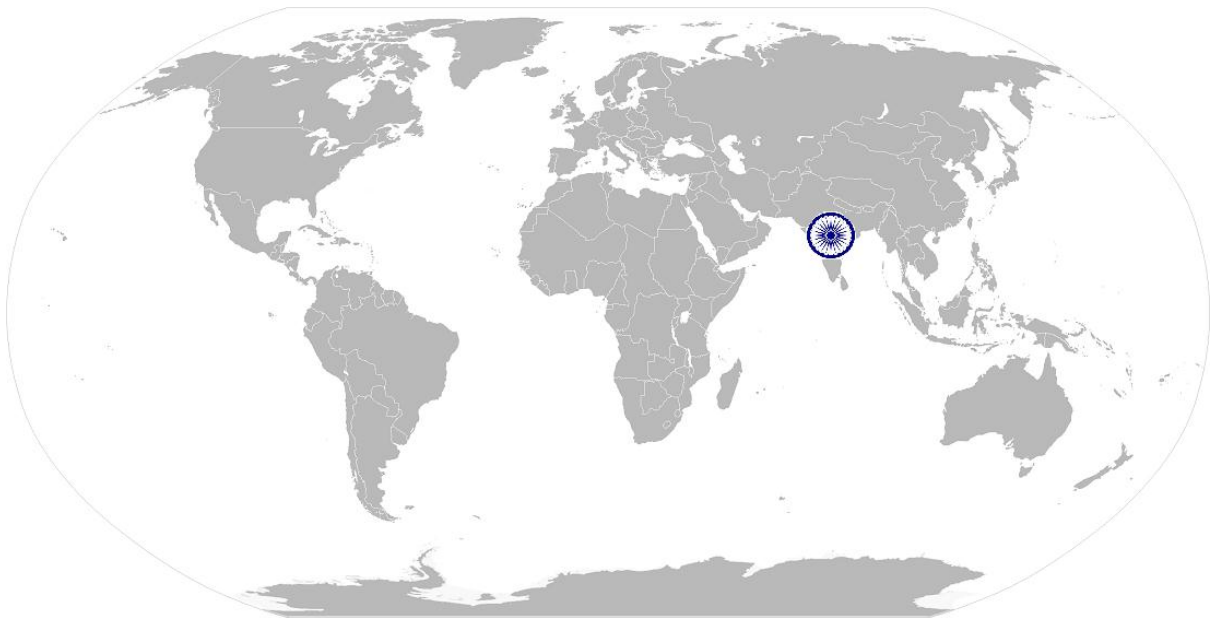
NOS Code	PSC/N0202		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	0.1
Industry	Plumbing	Drafted on	15/07/13
Industry Sub-sector	Consultants	Last reviewed on	30/07/13
		Next review date	31/01/14





PSC/N0209 Management of a design project

National Occupational Standard



Overview

This unit is about management of a design project during the designing phase of a project.



PSC/N0209 Management of a design project

Unit Code	PSC/N0209
Unit Title (Task)	Management of a design project
Description	This OS unit is about management of a design project during the designing phase of a project
Scope	<p>This unit/task covers the following:</p> <p>Management of design project</p> <ul style="list-style-type: none"> management of design work of various systems such as water/wastewater system, hydraulic fire protection system, rainwater harvesting system, groundwater extracting system, etc.
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Management of design project	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC1. understand the nature of design work and requirement of the task</p> <p>PC2. assign the drafting task to draftsmen and/or drafting engineer</p> <p>PC3. checking prepared drawings and design for accuracy</p> <p>PC4. validate the designs, ensuring that designs meet the site/project's requirement</p> <p>PC5. understand and apply relevant codes as related to buildings and plumbing design</p> <p>PC6. do a quality check of all the completed design work to ensure its compliance with applicable codes and norms</p> <p>PC7. assist in preparing quantity and construction cost estimates as requested</p> <p>PC8. works to meet design schedules and complete tasks on budget</p>
Knowledge and Understanding (K)	
A. Organizational Context	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. company's policies on: quality and delivery standards, safety and hazards, design codes and norms, integrity, dress code, etc.</p> <p>KA2. importance of review of designs and plans</p> <p>KA3. risk and impact of not following defined procedures/work plans</p> <p>KA4. how to obtain previous designs and plans from organization existing database</p>
B. Technical Knowledge	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. basic plumbing principles related to design, planning and execution</p> <p>KB2. relevant designing and planning software such as AutoCAD, MS Office, etc.</p> <p>KB3. design and plumbing terminologies</p> <p>KB4. units of measurements</p>



PSC/N0209 Management of a design project

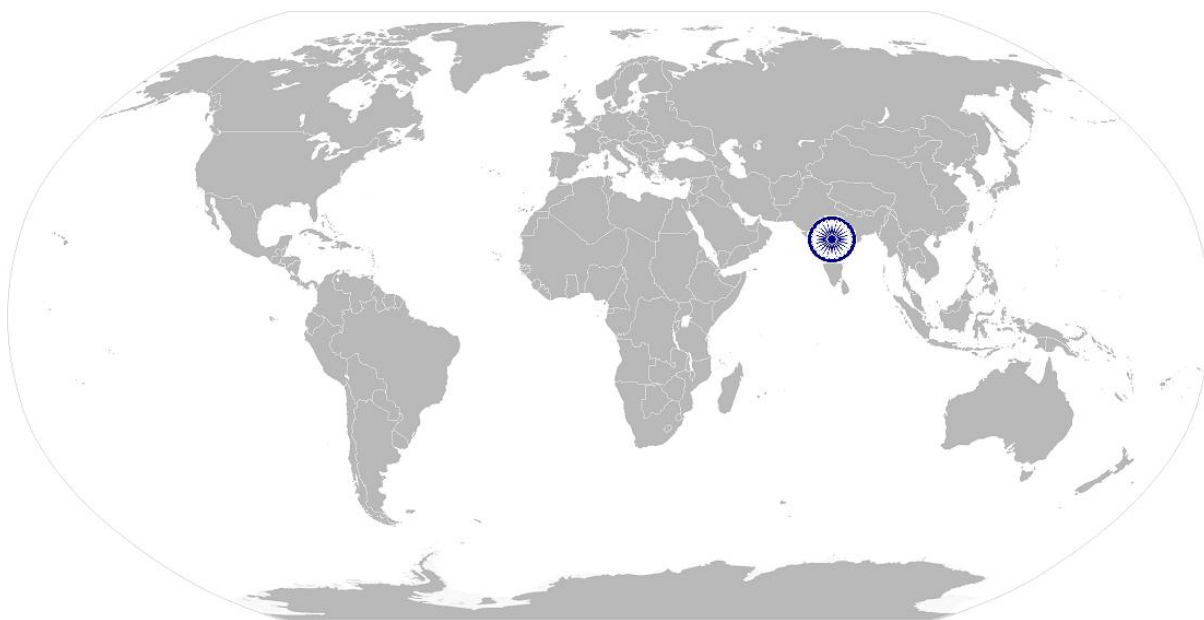
	KB5. basic runtime errors and their resolution ensuring minimal deviation from the design/plan KB6. how to calculate material requirements as per drawing/layout
Skills (S)	
A. Core Skills/ Generic Skills	Communication and reading skills
	The user/individual on the job needs to know and understand how to: SA1. communicate in Hindi, English and/or regional language SA2. read designs and plans
	Estimation skills
	SA3. perform mathematical calculations SA4. basic quantity and time estimations from the prepared design/plan
B. Professional Skills	Critical thinking and decision making
	The user/individual on the job needs to know and understand how to: SB1. spot signs of deviation from codes/norms and take appropriate action SB2. learn from past errors
	Quality check
	SB3. ensure quality at work-in-progress stage according to design requirements SB4. check for quality in the final system design
	Co-ordination and supervision
	SB5. allocate work to sub-ordinates as required SB6. communicate instructions and requirements correctly SB7. co-ordinate with co-workers, sub-ordinates and seniors for design/plan related compliance



PSC/N0209 Management of a design project

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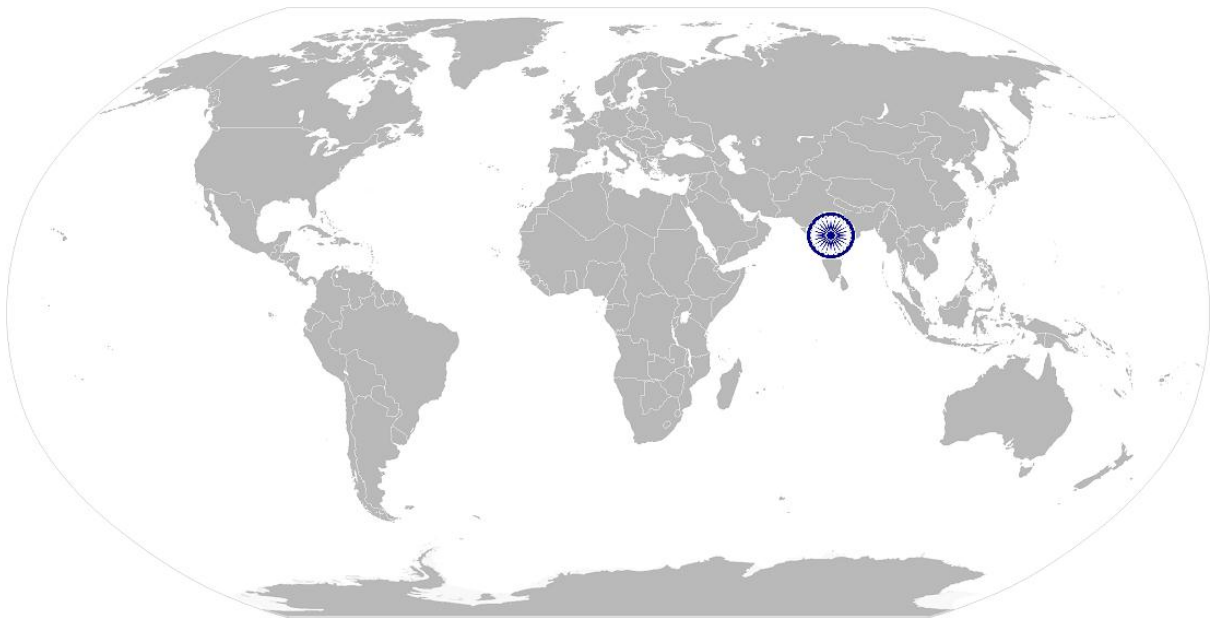
NOS Code	PSC/N0209		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	0.1
Industry	Plumbing	Drafted on	01/09/13
Industry Sub-sector	Consultants	Last reviewed on	30/10/13
		Next review date	30/04/14





PSC/N0211 Work effectively with colleagues

National Occupational Standard



Overview

This unit is about working effectively with colleagues, either within team or in other working teams for a plumbing project.



PSC/N0211 Work effectively with colleagues

Unit Code	PSC/N0211
Unit Title (Task)	Work effectively with colleagues
Description	This OS unit is about working effectively with colleagues, either within team or in other working teams for a plumbing project
Scope	<p>This unit/task covers the following:</p> <p>Interact with seniors</p> <ul style="list-style-type: none"> receive work instructions, discuss task status and receive feedback <p>Interact with colleagues within and outside the team</p> <ul style="list-style-type: none"> communicate and discuss work flow, problems faced, possible solutions and pass on the learning within and outside the team
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Interaction with seniors	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC1. receive work instructions and discuss the project/design with seniors</p> <p>PC2. communicate to reporting senior about task status, repairs and maintenance of tools and equipment as required</p> <p>PC3. communicate any potential hazards and expected process disruptions</p> <p>PC4. get the work reviewed and handover completed task to seniors</p> <p>PC5. receive feedback from reporting senior</p> <p>PC6. report any anticipated reasons for delays</p>
Interact with colleagues within and outside the team	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC7. work as a team with colleagues and share work as per the work load and skills</p> <p>PC8. work with colleagues of other teams</p> <p>PC9. communicate and discuss work flow related difficulties in order to find solution with mutual agreement</p> <p>PC10. put team over individual goals</p> <p>PC11. resolve conflicts</p>
Knowledge and Understanding (K)	
A. Organizational Context	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. company's policies on: preferred language of communication, quality delivery standards and personnel management</p> <p>KA2. reporting structure</p>



PSC/N0211 Work effectively with colleagues

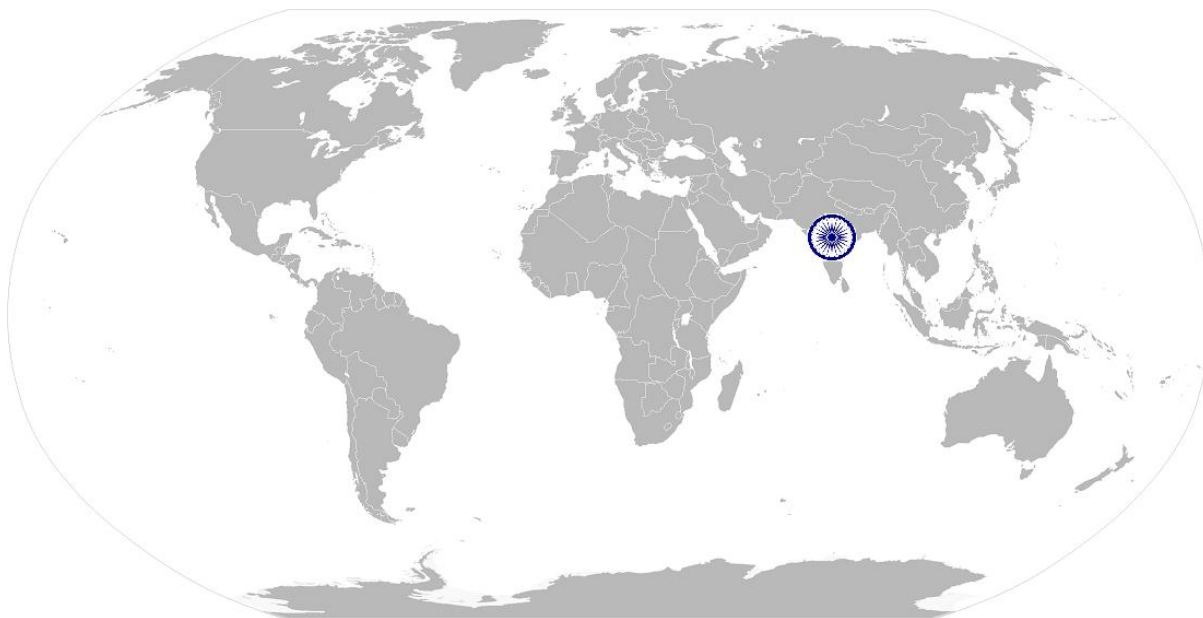
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. effective ways of communication KB2. building team co-ordination
Skills (S)	
A. Core Skills/ Generic Skills	Communication skills
	The user/individual on the job needs to know and understand how to: SA1. communicate in Hindi, English and/or regional language
	Teamwork
	SA2. share work load as required SA3. accept and interpret instructions and requirements correctly SA4. co-ordinate with co-workers and sub-ordinates
B. 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 and report the same SB2. when to report to supervisor and when to deal with a colleague individually, depending on the type of concern
	Reflective thinking
	SB3. improve work processes by interacting with others and adopting best practices



PSC/N0211 Work effectively with colleagues

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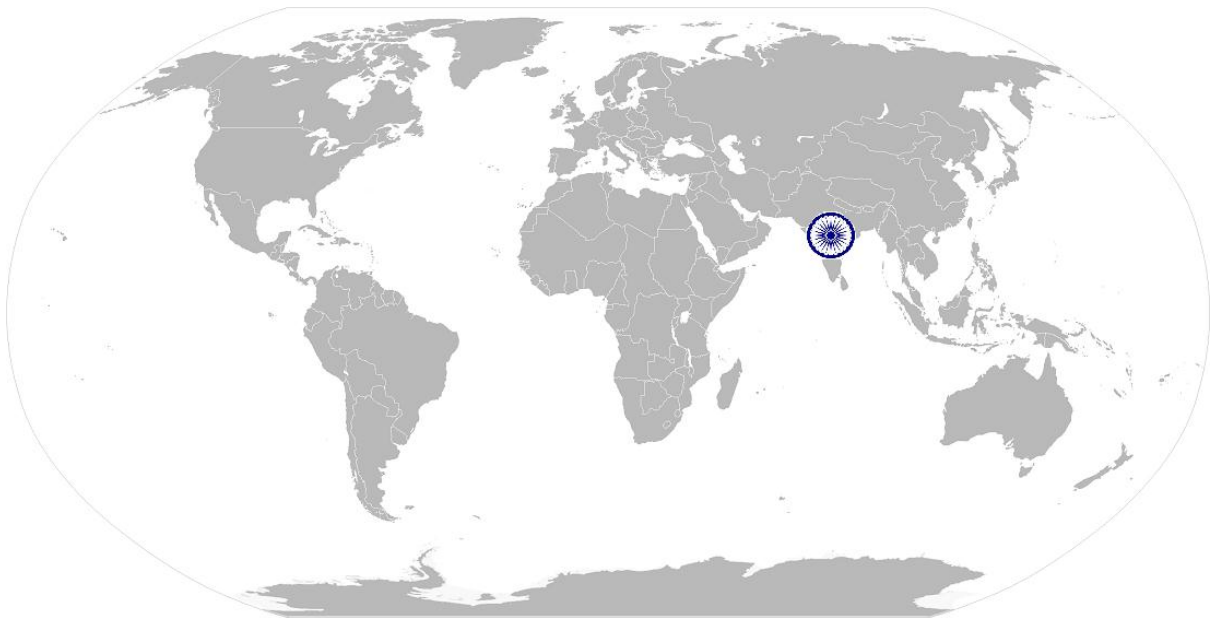
NOS Code	PSC/N0211		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	0.1
Industry	Plumbing	Drafted on	01/09/13
Industry Sub-sector	Consultants / Manufacturers	Last reviewed on	30/10/13
		Next review date	30/04/14





PSC/N0212 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.



PSC/N0212 Maintain a healthy, safe and secure working environment

Unit Code	PSC/N0212
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	<p>This unit/task covers the following:</p> <p>Emergency procedures to be followed in case of</p> <ul style="list-style-type: none"> • accidents • fires • illness • breach of security • other reasons to evacuate the premises
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Emergency procedures	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC1. comply with organization's current health, safety and security policies and procedures</p> <p>PC2. report any identified breaches in health, safety, and security policies and procedures to the designated person</p> <p>PC3. identify and remove any hazards that can be dealt safely, competently and within the limits of individual's authority</p> <p>PC4. report hazards to the relevant person in line with organizational procedures and warn other people who may be affected</p> <p>PC5. follow organization's emergency procedures promptly, calmly, and efficiently</p> <p>PC6. identify and recommend opportunities for improving health, safety, and security to the designated person</p> <p>PC7. complete any health and safety records legibly and accurately</p>
Knowledge and Understanding (K)	
A. Organizational Context	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. company's policy on: safety and hazards, personnel management, role and responsibilities</p> <p>KA2. reporting structure</p> <p>KA3. what is meant by a hazard, including the different types of health and safety hazards that can be found in the workplace</p> <p>KA4. organization's emergency procedures for different emergency situations and</p>



PSC/N0212 Maintain a healthy, safe and secure working environment

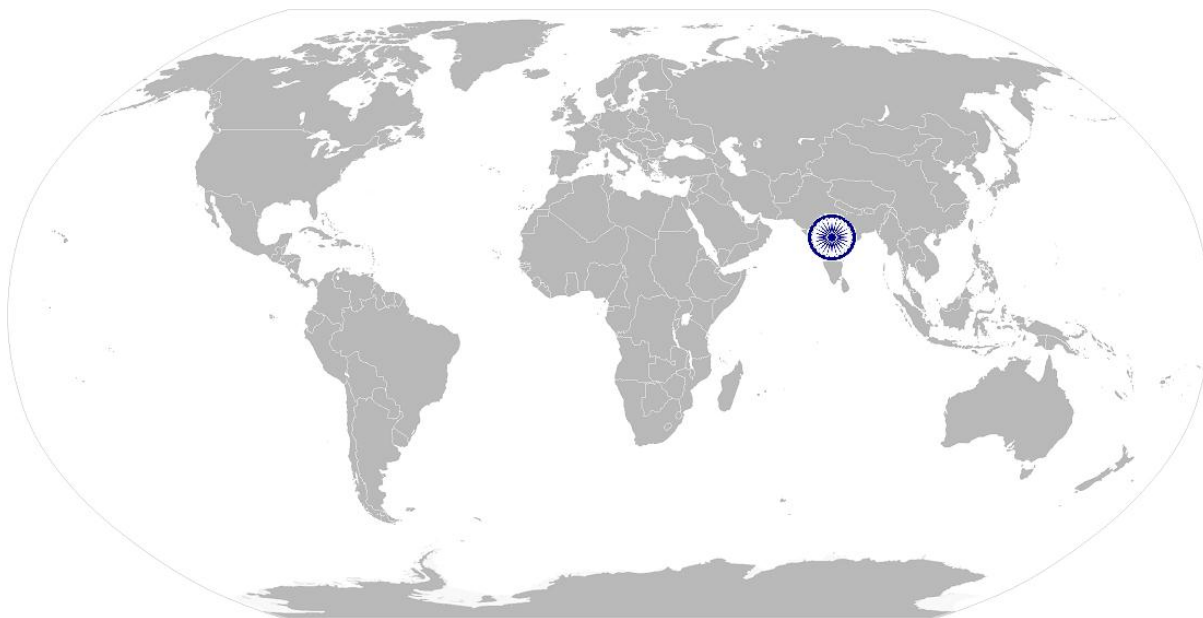
	<p>the importance of following these</p> <p>KA5. importance of maintaining high standards of health, safety and security</p> <p>KA6. implications that any non-compliance with health, safety and security may have on individuals and the organization</p>
B. Technical Knowledge	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. different types of breaches in health, safety and security and how and when to report these</p> <p>KB2. evacuation procedures for workers and visitors</p>
Skills (S)	
A. Core Skills/ Generic Skills	Communication skills
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA1. effectively communicate the danger</p>
	Organising skills
	<p>SA2. keep the work environment safe and clean</p>
B. Professional Skills	Decision making
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. report potential sources of danger</p> <p>SB2. follow prescribed procedure in the event of an accident</p> <p>SB3. plan and organize your work to meet health, safety and security requirements</p>
	Reflective thinking
	<p>SB4. learn from past mistakes and apply balanced judgments to different situations</p>



PSC/N0212 Maintain a healthy, safe and secure working environment

NOS Version Control

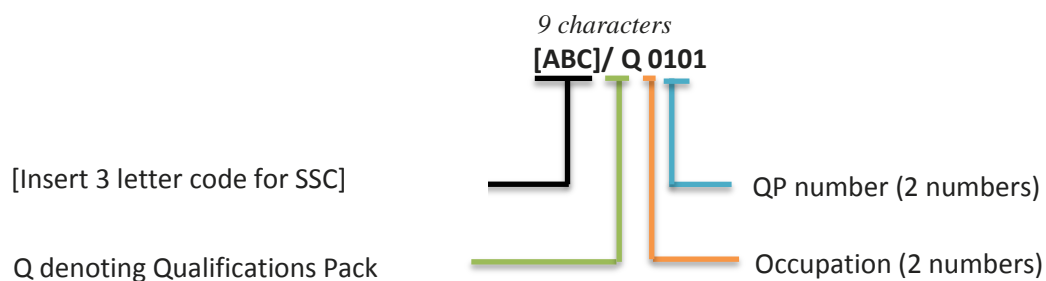
NOS Code	PSC /N0212		
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Industry	Plumbing	Drafted on	15/07/13
Industry Sub-sector	Consultants / Manufacturers	Last reviewed on	30/07/13
		Next review date	31/01/14



Annexure

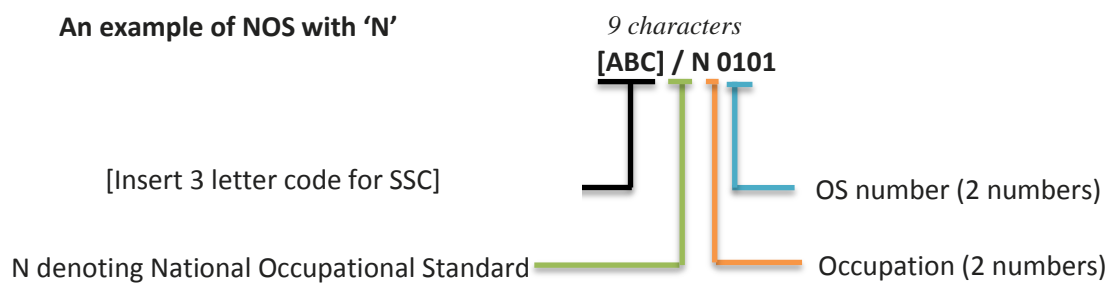
Nomenclature for QP and NOS

Qualifications Pack



Occupational Standard

An example of NOS with 'N'



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

Sub-sector	Range of Occupation numbers
Contractors	01-30
Consultants	30-60
Manufacturers	60-90

Sequence	Description	Example
Three letters	Industry name	PSC
Slash	/	/
Next letter	Whether QP or NOS	N
Next two numbers	Occupation code	01
Next two numbers	OS number	01