



# QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR CONSTRUCTION INDUSTRY

## 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 – Assistant Surveyor

**SECTOR:** CONSTRUCTION

**SUB-SECTOR:** Real Estate and Infrastructure Construction

**OCCUPATION:** Surveying

**REFERENCE ID:** CON/Q0901

**ALIGNED TO:** NCO-2004/2148.90

This job role performs supporting activities in various surveying works undertaken on site before and during construction works.

**Brief Job Description:** Assistant Surveyor is responsible for providing support in various surveying activities undertaken on site before and during construction works.

**Personal Attributes:** The individual is expected to be physically fit and should be able to work across various locations in extreme weather/site conditions. The person should be able to perform efficiently within a team, handle the various surveying tools and materials.



<b>Qualifications Pack Code</b>	CON/Q0901		
<b>Job Role</b>	Assistant Surveyor		
<b>Credits (NSQF)</b>	TBD	<b>Version number</b>	1.0
<b>Sector</b>	Construction	<b>Drafted on</b>	07/08/2015
<b>Sub-sector</b>	Real Estate and Infrastructure Construction	<b>Last reviewed on</b>	23/08/2015
<b>Occupation</b>	Surveying	<b>Next review date</b>	23/08/2017
<b>NSQF Clearance on</b>	NA		

<b>Job Role</b>	<b>Helper Surveyor</b>
<b>Role Description</b>	The job role is responsible for providing support in various surveying activities undertaken on site before and during construction works.
<b>NSQF level</b>	2
<b>Minimum Educational Qualifications</b>	Preferably 5 <sup>th</sup> standard
<b>Maximum Educational Qualifications</b>	N.A
<b>Training</b> (Suggested but not mandatory)	Recommended training period of 6 - 8 weeks as per QP of Assistant Surveyor Normal literacy of reading, writing and understanding
<b>Minimum Job Entry Age</b>	18 years
<b>Experience</b>	NIL
<b>Applicable National Occupational Standards (NOS)</b>	<b>Compulsory:</b> <ol style="list-style-type: none"> <li><a href="#">CON/N0901: Identify, select, use and store appropriate tools and instruments as per instructions</a></li> <li><a href="#">CON/N0902: Provide support in various surveying works</a></li> <li><a href="#">CON/N9001: Work according to personal health, safety and environment protocol at construction site</a></li> </ol> <b>Optional:</b> N.A.
<b>Performance Criteria</b>	As described in the relevant OS units

Definitions	Keywords / Terms	Description
	Sector	Sector is conglomeration of different business operations having similar business 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
	Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organization.
	Occupational Standards (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 the standard consistently. Occupational Standards are applicable both in the Indian contexts.
	Performance Criteria	Performance Criteria are statements that together specify the standard of performance required when carrying out a task.
	Qualifications Pack (QP)	Qualifications Pack comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A Qualification Pack is assigned a unique qualification pack code
	Qualification Pack Code	Qualification Pack Code is a unique reference code that identifies a qualifications pack.
	National Occupational Standards (NOS)	NOS are Occupational Standards which apply uniquely in the Indian context.
	Scope	Scope is the set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on the quality of performance required.
	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 / 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
	CON	Construction
	NSQF	National Skill Qualifications Framework
	QP	Qualification Pack
	OS	Occupational Standards
	TBD	To Be Decided

CON/N0901

Identify, select, use and store appropriate tools and instruments as per instructions

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# National Occupational Standard



## Overview

This NOS covers the skills and knowledge required by a workman to be proficient in identifying, selecting, using and storing appropriate tools and instruments as per instructions.

CON/N0901

Identify, select, use and store appropriate tools and instruments as per instructions

National Occupational Standard

<b>Unit Code</b>	CON/N0901
<b>Unit Title (Task)</b>	Identify, select, use and store appropriate tools and instruments as per instructions
<b>Description</b>	This unit describes the skills and knowledge required to identify, select, use and store appropriate tools and instruments as per instructions.
<b>Scope</b>	<ul style="list-style-type: none"> <li>Identify and handle various tools and instruments</li> </ul>
<b>Performance Criteria (PC) w.r.t. the Scope</b>	
<b>Element</b>	
<b>Identify and handle various tools and instruments</b>	<p>PC1. identify and handle type of chain based upon its lengths</p> <p>PC2. identify different types of tapes on basis of material, marked units, total length</p> <p>PC3. identify &amp; differentiate between different types of offsets and handle them accordingly</p> <p>PC4. identify different types of levels such as dumpy level, auto level, tilting level etc</p> <p>PC5. identify different types of angle measuring instruments like tachometer, theodolite, etc.</p> <p>PC6. identify different angle and distance measuring instruments like digital theodolite, total station etc</p> <p>PC7. identify and handle other tools used in surveying like levelling staff, arrows, pegs, etc.</p> <p>PC8. identify other miscellaneous instruments used in various surveys like GPS, instruments of photogrammetry, different types of transits etc</p> <p>PC9. store and stack the surveying tools and instruments, as per standard practices, manufactures guidelines</p> <p>PC10. handle, stack and store different surveying materials such as lime, strings, hurdles, paints etc. according to standard practices or instruction</p>
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b> (Knowledge of the company / organization and its processes)	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. standard practices of façade installation works</p> <p>KA2. safety rules and regulations for handling, shifting, collecting and stacking required surveying materials, tools and tackles</p> <p>KA3. personal protection including the use of the related safety gears, safety equipment &amp; safety drills required for handling different façade installation materials, tools and tackles</p> <p>KA4. how to request for tools and materials as per set procedures</p> <p>KA5. maintenance of tools and equipment</p>
<b>B. Technical Knowledge</b>	<p>The user/individual on the job needs to know and understand:</p>

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**Identify, select, use and store appropriate tools and instruments as per instructions**

	<p>KB1. how to read in english</p> <p>KB2. how to identify</p> <ul style="list-style-type: none"> <li>• different type of chain and tapes</li> <li>• different types of levels</li> <li>• different types of angle measuring instruments</li> <li>• different angle and distance measuring instruments</li> <li>• different tools used</li> </ul> <p>KB3. different materials used in surveying, their areas of applications, storage procedures</p>
<b>Skills (S)</b>	
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. write in at least one language, preferably in the local language of the site</p>
	<b>Reading Skills</b>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA2. read in at least one language, preferably in the local language of the site</p> <p>SA3. read instructions, guidelines, sign boards, safety rules and safety tags</p> <p>SA4. read instructions and exit routes during emergency</p>
	<b>Oral Communication (Listening and Speaking skills)</b>
<b>B. Professional Skills</b>	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA5. speak in one or more language, preferably in one of the local languages of the site</p> <p>SA6. listen and follow instructions communicated by supervisors</p> <p>SA7. orally and efficiently communicate with team member</p>
	<b>Decision Making</b>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SB1. decide whether the workplace is safe for working and also the relevant work is not creating hazardous conditions for others</p> <p>SB2. identify and select appropriate tools instruments like chains, tapes, offsets, levels, angle measuring instruments, etc.</p>
	<b>Plan and Organize</b>
<p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. plan self-work as per the direction /close supervision of superior on site</p>	
<b>Customer centricity</b>	

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**Identify, select, use and store appropriate tools and instruments as per instructions**

	The user/individual on the job needs to know and understand how to: SB3. ensure work is done within time and as per desired quality as per instructions provided by superiors
	<b>Problem solving</b>
	SB4. N.A
	<b>Analytical Thinking</b>
	SB5. N.A
	<b>Critical Thinking</b>
	The user/individual on the job needs to know and understand how to: SB6. identify location at which violation of any safety norms may lead to accident

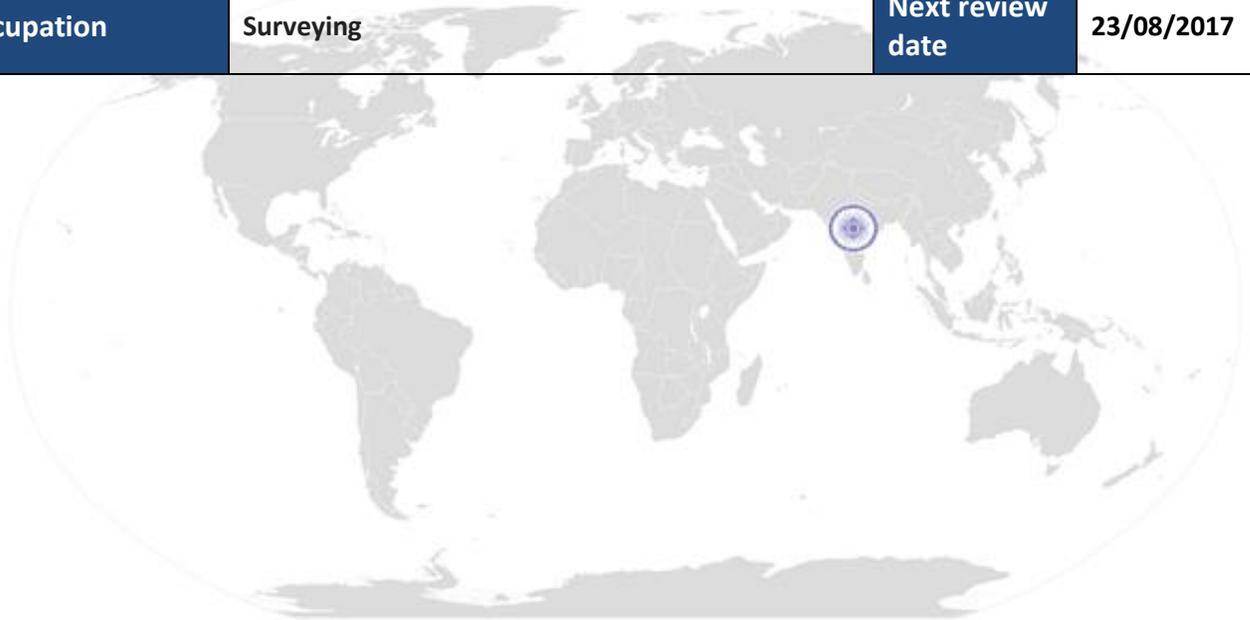


CON/N0901

Identify, select, use and store appropriate tools and instruments as per instructions

## NOS Version Control

<b>NOS Code</b>	<b>CON/N0901</b>		
<b>Credits (NSQF)</b>	<b>TBD</b>	<b>Version number</b>	<b>1.0</b>
<b>Industry</b>	<b>Construction</b>	<b>Drafted on</b>	<b>07/08/2015</b>
<b>Industry Sub-sector</b>	<b>Real Estate and Infrastructure Construction</b>	<b>Last reviewed on</b>	<b>23/08/2015</b>
<b>Occupation</b>	<b>Surveying</b>	<b>Next review date</b>	<b>23/08/2017</b>



# National Occupational Standard



## Overview

This NOS covers the skills and knowledge required by a workman to be proficient in providing support in various surveying works.

**CON/N0902 Provide support in various surveying works**

National Occupational Standard

<b>Unit Code</b>	<b>CON/N0902</b>
<b>Unit Title (Task)</b>	<b>Provide support in various surveying works</b>
<b>Description</b>	This unit describes the skills and knowledge required to provide support in various surveying works.
<b>Scope</b>	<p>The scope covers the following:</p> <ul style="list-style-type: none"> <li>• Carry out preparatory works prior to surveying</li> <li>• Assist in linear measurements of distances and lengths</li> <li>• Assist in angular measurement, leveling and setting out</li> </ul>
<b>Performance Criteria (PC) w.r.t. the Scope</b>	
<b>Element</b>	<b>Performance Criteria</b>
<b>Carry out preparatory works prior to surveying</b>	<p>To be competent, the user / individual on the job must be able to:</p> <p>PC1. identify the tools and instruments to be used for surveying as per the instruction of surveyor</p> <p>PC2. count and collect the required numbers of tools as per the instructions of the surveyor</p> <p>PC3. shift materials, tools and equipments to the instructed location as per the instruction of the surveyor</p> <p>PC4. follow the ergonomic principals while lifting, shifting and using the surveying tools and equipment's</p> <p>PC5. place the tripod approximately on the station mark and fix the instrument to the same</p> <p>PC6. report to seniors in case of any ambiguity or deviations</p>
<b>Assist in linear measurements of distances and lengths</b>	<p>PC7. unfold the chain or tape as per standard practices</p> <p>PC8. fix the ranging rod at the indicated point to mark the start point as per instruction</p> <p>PC9. start the measurements from the exact point as per instructions</p> <p>PC10. interpret correctly and follow the hand signals shown by surveyor for ranging</p> <p>PC11. fix arrows at every chain length for reference off the follower</p> <p>PC12. collect and count all tools and instruments after completion of survey</p> <p>PC13. shift the tools back to the store and stack the same as per standard practice</p>
<b>Assist in angular measurement, leveling and setting out</b>	<p>PC14. select the staff based on the type of instrument being used</p> <p>PC15. locate and confirm the staff point as instructed by the surveyor</p> <p>PC16. place the staff at exact instructed point</p> <p>PC17. place the staff vertical or normal to the surface of base as per instruction</p> <p>PC18. mark the points instructed by surveyor by suitable means</p> <p>PC19. install hurdles/profiles at instructed location</p> <p>PC20. fix the profiles maintaining their top at approximately same level</p> <p>PC21. install nails to mark the location of setting out points as per instructions</p>

**CON/N0902 Provide support in various surveying works**

	<p>PC22. mark symbols using appropriate paints to denote the identification of point</p> <p>PC23. connect line thread /strings to respective nails on profile for marking appropriate points</p> <p>PC24. mark layouts for excavations using lime post setting out works</p>
<b>Knowledge and Understanding (K)</b>	
<p><b>A. Organizational Context</b> (Knowledge of the company / organization and its processes)</p>	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. standard practices of surveying works</p> <p>KA2. safety rules and regulations for handling, shifting, collecting and stacking required surveying materials, tools and tackles</p> <p>KA3. personal protection including the use of the related safety gears, safety equipment &amp; safety drills required for handling different façade installation materials, tools and tackles</p> <p>KA4. how to request for tools and materials as per set procedures</p> <p>KA5. maintenance of tools and equipment</p>
<p><b>B. Technical Knowledge</b></p>	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. basic numeracy and arithmetic calculations</p> <p>KB2. ergonomic principals for lifting and shifting of long, heavy and sharp objects</p> <p>KB3. standard procedure for linier measurements</p> <p>KB4. different types of staffs to be used for different types of instruments</p> <p>KB5. locate various points on field</p> <p>KB6. standard procedure for marking various points and symbols</p> <p>KB7. procedure for application of lime</p> <p>KB8. importance of correct setting out</p> <p>KB9. procedure for application of paints</p> <p>KB10. procedures for installing hurdles and profiles as per requirement</p>
<b>Skills (S)</b>	
<p><b>A. Core Skills/ Generic Skills</b></p>	<p><b>Writing Skills</b></p>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. write in at least one language, preferably in the local language of the site</p>
	<p><b>Reading Skills</b></p>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA2. read in at least one language, preferably in the local language of the site</p> <p>SA3. read instructions, guidelines, sign boards, safety rules and safety tags</p> <p>SA4. read instructions and exit routes during emergency</p>
	<p><b>Oral Communication (Listening and Speaking skills)</b></p>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA5. speak in one or more language, preferably in one of the local languages of</p>

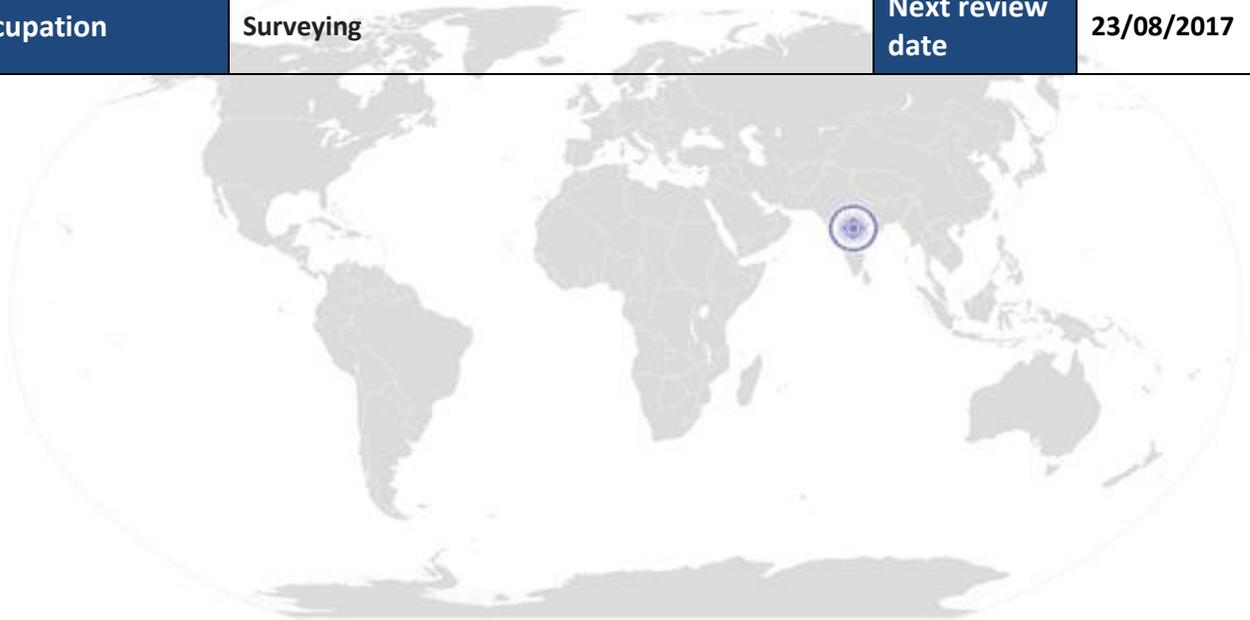
**CON/N0902 Provide support in various surveying works**

	<p>the site</p> <p>SA6. listen and follow instructions communicated by supervisors</p> <p>SA7. orally and efficiently communicate with team member</p>
<p><b>B. Professional Skills</b></p>	<p><b>Decision Making</b></p>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SB1. decide whether the workplace is safe for working and also the relevant work is not creating hazardous conditions for others</p> <p>SB2. select the tools and instruments to be used for surveying works</p> <p>SB3. identify the appropriate location to place the tripod as per instructions</p> <p>SB4. select the appropriate staff based on the instrument used</p> <p>SB5. identify whether staff is to be placed vertical or normal to surface of the base as per instructions</p>
	<p><b>Plan and Organize</b></p>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB6. plan self-work as per the direction /close supervision of a superior on site</p>
	<p><b>Customer centricity</b></p>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB7. ensure work is done within time and as per desired quality as per instructions provided by superiors</p>
	<p><b>Problem solving</b></p>
	<p>SB8. report to superiors in case of ambiguity or deviations in preparatory work</p>
	<p><b>Analytical Thinking</b></p>
	<p>SB9. analyze and correctly interpret hand signals during surveying works</p> <p>SB10. identify the exact point for starting the measurements</p> <p>SB11. analyze the appropriate level for fixing profiles</p>
	<p><b>Critical Thinking</b></p>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB12. identify location at which violation of any safety norms may lead to accident</p>

CON/N0902 Provide support in various surveying works

## NOS Version Control

<b>NOS Code</b>	<b>CON/N0902</b>		
<b>Credits (NSQF)</b>	<b>TBD</b>	<b>Version number</b>	<b>1.0</b>
<b>Industry</b>	<b>Construction</b>	<b>Drafted on</b>	<b>07/08/2015</b>
<b>Industry Sub-sector</b>	<b>Real Estate and Infrastructure Construction</b>	<b>Last reviewed on</b>	<b>23/08/2015</b>
<b>Occupation</b>	<b>Surveying</b>	<b>Next review date</b>	<b>23/08/2017</b>



CON/N9001 Work according to personal health, safety and environment protocol at construction site

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# National Occupational Standard



## Overview

This NOS covers the skill and knowledge required for an individual to work according to personal health, safety and environmental protocol at construction site.

**CON/N9001 Work according to personal health, safety and environment protocol at construction site**

National Occupational Standard	<b>Unit Code</b>	CON/N9001
	<b>Unit Title (Task)</b>	Work according to personal health, safety and environment protocol at construction site
	<b>Description</b>	This NOS covers the skill and knowledge required for an individual to work according to personal health, safety and environmental protocol at construction site
	<b>Scope</b>	The scope covers the following: <ul style="list-style-type: none"> <li>Follow safety norms as defined by organization</li> <li>Adopt healthy &amp; safe work practices</li> <li>Implement good housekeeping and environment protection process and activities</li> </ul>
	<b>Performance Criteria (PC) w.r.t. the Scope</b>	
	<b>Element</b>	<b>Performance Criteria</b>
	<b>Follow safety norms as defined by organization</b>	To be competent, the user / individual on the job must be able to: <ul style="list-style-type: none"> <li>PC1. identify and report any hazards, risks or breaches in site safety to the appropriate authority</li> <li>PC2. follow emergency and evacuation procedures in case of accidents, fires, natural calamities</li> <li>PC3. follow recommended safe practices in handling construction materials, including chemical and hazardous material whenever applicable</li> <li>PC4. participate in safety awareness programs like Tool Box Talks, safety demonstrations, mock drills, conducted at site</li> <li>PC5. identify near miss , unsafe condition and unsafe act</li> </ul>
	<b>Adopt healthy &amp; safe work practices</b>	<ul style="list-style-type: none"> <li>PC6. use appropriate Personal Protective Equipment (PPE) as per work requirements including: <ul style="list-style-type: none"> <li>Head Protection (Helmets)</li> <li>Ear protection</li> <li>Fall Protection</li> <li>Foot Protection</li> <li>Face and Eye Protection,</li> <li>Hand and Body Protection</li> <li>Respiratory Protection (if required)</li> </ul> </li> <li>PC7. handle all required tools, tackles , materials &amp; equipment safely</li> <li>PC8. follow safe disposal of waste, harmful and hazardous materials as per EHS guidelines</li> <li>PC9. install and apply properly all safety equipment as instructed</li> <li>PC10. follow safety protocol and practices as laid down by site EHS department</li> </ul>

**CON/N9001 Work according to personal health, safety and environment protocol at construction site**

<p><b>Implement good housekeeping practices</b></p>	<p>PC11. collect and deposit construction waste into identified containers before disposal, separate containers that may be needed for disposal of toxic or hazardous wastes</p> <p>PC12. apply ergonomic principles wherever required</p>
<p><b>Knowledge and Understanding (K)</b></p>	
<p><b>A. Organizational Context</b> (Knowledge of the company / organization and its processes)</p>	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. reporting procedures in cases of breaches or hazards for site safety, accidents, and emergency situations as per guidelines</p> <p>KA2. types of safety hazards at construction sites</p> <p>KA3. basic ergonomic principles as per applicability</p>
<p><b>B. Technical Knowledge</b></p>	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. the procedure for responding to accidents and other emergencies at site</p> <p>KB2. appropriate personal protective equipment to used based on various working conditions</p> <p>KB3. importance of handling tools, equipment and materials as per applicable</p> <p>KB4. health and environments effect of construction materials as per applicability</p> <p>KB5. various environmental protection methods as per applicability</p> <p>KB6. storage of waste including the following at appropriate location:</p> <ul style="list-style-type: none"> <li>• non-combustible scrap material and debris</li> <li>• combustible scrap material and debris</li> <li>• general construction waste and trash (non-toxic, non-hazardous)</li> <li>• any other hazardous wastes</li> <li>• any other flammable wastes</li> </ul> <p>KB7. how to use hazardous material, in a safe and appropriate manner as per applicability</p> <p>KB8. safety relevant to tools, tackles, &amp; requirement as per applicability</p> <p>KB9. housekeeping activities relevant to task</p>
<p><b>Skills (S)</b></p>	
<p><b>A. Core Skills/ Generic Skills</b></p>	<p><b>Writing Skills</b></p>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. write in one or more language, preferably in the local language of the site</p> <p>SA2. fill safety formats for near miss, unsafe conditions and safety suggestions</p>
	<p><b>Reading Skills</b></p>
<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA3. read in one or more language, preferably in the local language of the site</p> <p>SA4. read sign boards, notice boards relevant to safety</p>	

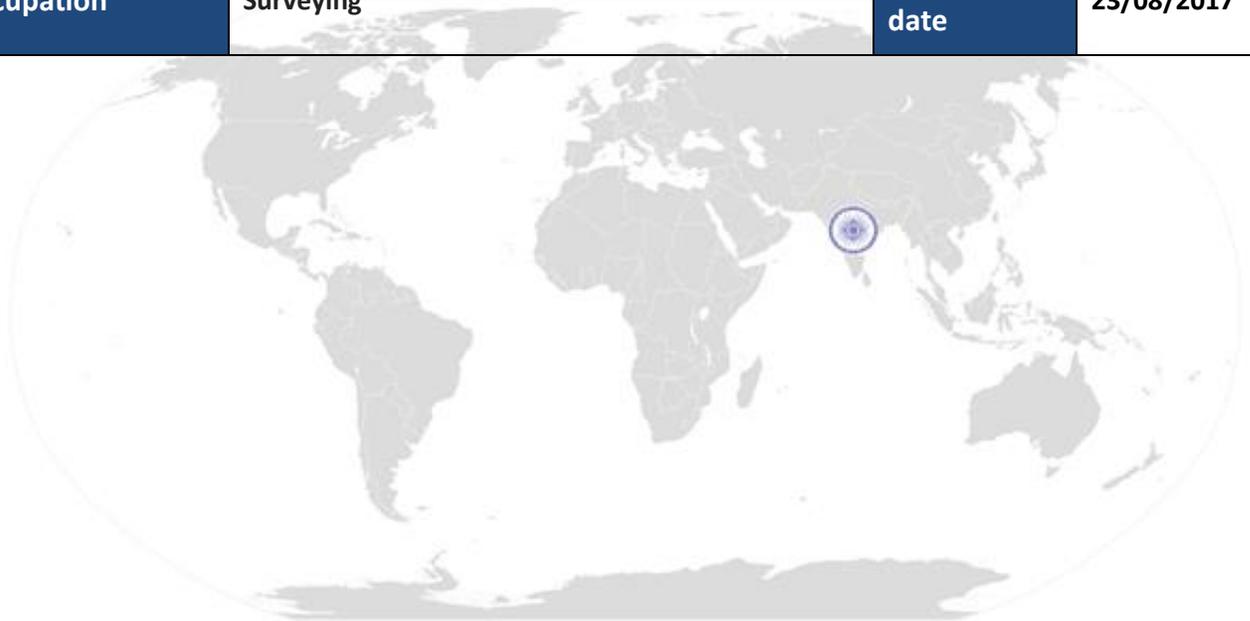
**CON/N9001 Work according to personal health, safety and environment protocol at construction site**

	<b>Oral Communication (Listening and Speaking skills)</b>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA5. speak in one or more language, preferably in one of the local language of the site</p> <p>SA6. listen instructions / communication shared by site EHS and superiors regarding site safety, and conducting tool box talk</p> <p>SA7. communicate reporting of site conditions, hazards, accidents, etc.</p>
<b>B. Professional Skills</b>	<b>Decision Making</b>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. not create unsafe conditions for others</p> <p>SB2. keep the workplace clean and tidy</p>
	<b>Plan and Organise</b>
	SB3. N.A
	<b>Customer centricity</b>
	SB4. N.A
	<b>Problem solving</b>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB5. identify safety risks that affect the health, safety and environment for self and others working in the vicinity, tackle it if within limit or report to appropriate authority</p>
	<b>Analytical Thinking</b>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB6. assess and analyze areas which may affect health, safety and environment protocol on the site</p>
<b>Critical Thinking</b>	
<p>The user/individual on the job needs to know and understand how to:</p> <p>SB7. ensure personal safety behavior</p> <p>SB8. respond to emergency</p>	

CON/N9001 Work according to personal health, safety and environment protocol at construction site

## NOS Version Control

<b>NOS Code</b>	<b>CON/N9001</b>		
<b>Credits (NSQF)</b>	<b>TBD</b>	<b>Version number</b>	<b>1.0</b>
<b>Industry</b>	<b>Construction</b>	<b>Drafted on</b>	<b>07/08/2015</b>
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<b>Occupation</b>	<b>Surveying</b>	<b>Next review date</b>	<b>23/08/2017</b>



Assessment Criteria for Assistant Surveyor

**CRITERIA FOR ASSESSMENT OF TRAINEES**

<b><u>Job Role</u></b>	Assistant Surveyor
<b><u>Qualification Pack</u></b>	CON/Q0901
<b><u>Sector Skill Council</u></b>	Construction

**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 knowledge part will be based on knowledge bank of questions created by Assessment Bodies subject to approval by SSC
3. Individual assessment agencies will create unique question papers for knowledge/theory part for assessment of candidates as per assessment criteria given below
4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on assessment criteria.
5. The passing percentage for each QP will be 50%. To pass the Qualification Pack, every trainee should score a minimum of 50% individually in each NOS.
6. The Assessor shall check the final outcome of the practices while evaluating the steps performed to achieve the final outcome.
7. The trainee shall be provided with a chance to repeat the test to correct his procedures in case of improper performance, with a deduction of marks for each iteration.
8. After the certain number of iteration as decided by SSC the trainee is marked as fail, scoring zero marks for the procedure for the practical activity .
9. 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 within the specified timeframe set by SSC.
10. Minimum duration of Assessment of each QP shall be of 4hrs/trainee.

Assessment outcomes	Assessment Criteria for outcomes	Marks Allocation			
		Total Mark	Out Of	Theory	Skills Practical
CON/N0901: Identify, select, use and store appropriate tools and instruments as per instructions	PC1. identify and handle type of chain based upon its lengths	<b>100</b>	10	1	9
	PC2. identify different types of tapes on basis of material, marked units, total length		10	1	9
	PC3. identify & differentiate between different types of offsets and handle them accordingly		10	1	9
	PC4. identify different types of levels such as dumpy level, auto level, tilting level etc		10	1	9
	PC5. identify different types of angle measuring instruments like tachometer, theodolite etc		10	1	9

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	PC6. identify different angle and distance measuring instruments like digital theodolite, total station etc		10	1	9
	PC7. identify and handle other tools used in surveying like levelling staff, arrows, pegs etc		10	1	9
	PC8. identify other miscellaneous instruments used in various surveys like GPS, instruments of photogrammetry, different types of transits etc		10	1	9
	PC9. store and stack the surveying tools and instruments, as per standard practices, manufactures guidelines		10	1	9
	PC10. handle, stack and store different surveying materials such as lime, strings, hurdles, paints etc. according to standard practices or instruction		10	1	9
		<b>Total</b>	<b>100</b>	<b>10</b>	<b>90</b>
CON/N0902:Provide support in various surveying works	PC1. identify the tools and instruments to be used for surveying as per the instruction of surveyor	<b>100</b>	10	1	9
	PC2. count and collect the required numbers of tools as per the instructions of the surveyor				
	PC3. shift materials, tools and equipments to the instructed location as per the instruction of the surveyor		10	1	9
	PC4. follow the ergonomic principals while lifting, shifting and using the surveying tools and equipment's				
	PC5. place the tripod approximately on the station mark and fix the instrument to the same		5	0.5	4.5
	PC6. report to seniors in case of any ambiguity or deviations		5	0.5	4.5
	PC7. unfold the chain or tape as per standard practices		5	0.5	4.5
	PC8. fix the ranging rod at the indicated point to mark the start point as per instruction		5	0.5	4.5
	PC9. start the measurements from the exact point as per instructions		5	0.5	4.5
	PC10. interpret correctly and follow the hand signals shown by surveyor for ranging		5	0.5	4.5
	PC11. fix arrows at every chain length for reference off the follower		5	0.5	4.5
	PC12. collect and count all tools and instruments after completion of survey		5	0.5	4.5
	PC13. shift the tools back to the store and stack the same as per standard practice				
	PC14. select the staff based on the type of instrument being used		15	1.5	13.5

Assessment Criteria for Assistant Surveyor

	PC15. locate and confirm the staff point as instructed by the surveyor							
	PC16. place the staff at exact instructed point							
	PC17. place the staff vertical or normal to the surface of base as per instruction							
	PC18. mark the points instructed by surveyor by suitable means					5	0.5	4.5
	PC19. install hurdles/profiles at instructed location					5	0.5	4.5
	PC20. fix the profiles maintaining their top at approximately same level					5	0.5	4.5
	PC21. install nails to mark the location of setting out points as per instructions					5	0.5	4.5
	PC22. mark symbols using appropriate paints to denote the identification of point					5	0.5	4.5
	PC23. connect line thread /strings to respective nails on profile for marking appropriate points					5	0.5	4.5
	PC24. mark layouts for excavations using lime post setting out works					5	0.5	4.5
						<b>Total</b>	<b>100</b>	<b>10</b>
CON/N9001: Work according to personal health, safety and environment protocol at construction site	PC1. identify and report any hazards, risks or breaches in site safety to the appropriate authorities	<b>100</b>						
	PC2. follow emergency and evacuation procedures in case of accidents, fires, natural calamities					10	1	9
	PC3. follow recommended safe practices in handling construction materials, including chemical and hazardous material whenever applicable					10	1	9
	PC4. participate in safety awareness programs like Tool Box Talks, safety demonstrations, mock drills, conducted at site					5	0.5	4.5
	PC5. identify near miss , unsafe condition and unsafe act					5	0.5	4.5
	PC6. use appropriate Personal Protective Equipment (PPE) as per work requirements including: <ul style="list-style-type: none"> <li>• Head Protection (Helmets)</li> <li>• Ear protection</li> <li>• Fall Protection</li> <li>• Foot Protection</li> <li>• Face and Eye Protection</li> <li>• Hand and Body Protection</li> <li>• Respiratory Protection (if required)</li> </ul>					10	1	9
	PC7. handle all required tools, tackles , materials & equipment safely					10	1	9



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	PC8. follow safe disposal of waste, harmful and hazardous materials as per EHS guidelines		10	1	9
	PC9. install and apply properly all safety equipment as instructed		10	1	9
	PC10. follow safety protocol and practices as laid down by site EHS department		10	1	9
	PC11. collect and deposit construction waste into identified containers before disposal, separate containers that may be needed for disposal of toxic or hazardous wastes		10	1	9
	PC12. apply ergonomic principles wherever required		10	1	9
		<b>Total</b>	<b>100</b>	<b>10</b>	<b>90</b>