



#### 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

#### Contact Us:

CSDCI 204, Aashirwad Complex, D-1, Green Park, New Delhi -110016 E-mail:

<u>standards@csdcindia.</u>
org





# Contents

2.	Qualifications Pack	P2
3.	Glossary of Key Terms	.P4
4.	OS Units	.P5
5	Assessment Criteria	P32

Introduction and Contacts.

#### Introduction

# **Qualifications Pack - Chargehand Scaffolding - System**

**SECTOR: CONSTRUCTION** 

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

OCCUPATION: SCAFFOLDING

**REFERENCE ID:** CON/Q0307

**ALIGNED TO:** NCO-2004/9313.90

**Chargehand Scaffolding - System:** This job role performs erection and dismantling of the system scaffold for complex structures at the construction site.

**Brief Job Description:** This job role is responsible for erecting and dismantling scaffold in complex and high risk situations which includes outrigger/cantilever scaffold, scaffold erection for complex structures and at complex locations such as in confined area or in wide openings in a sequential manner to meet works requirements within specified time and tolerance. The individual should possess good factual knowledge, and shall be able to maintain safe and quality work practices.

**Personal Attributes:** This job role requires the individual to be physically and mentally fit to carry out scaffolding work at a construction site. The individual should be organized, diligent, methodical, demonstrative and able to implement and maintain safety practices. The individual should have independent ability to take quick decisions and should be well versed in scaffolding works. The individual should possess good organizational, interpersonal and communication skills along with factual knowledge of reinforcement works and shall also be responsible for own work and learning.





Qualifications Pack Code		CON/Q0307		
Job Role		Chargehand Scaffolding - System		
Credits (NSQF)	TBD		Version number	1.0
Sector	Constructio	n	Drafted on	07/05/2015
Sub-sector	Real Estate and Infrastructure and Construction		Last reviewed on	23/05/2015
Occupation	Scaffolding		Next review date	23/05/2017
NSQC Clearance on	e on		05/08/2015	
Job Role		hargehand	Scaffolding - System	
Role Description		•	is responsible for erection s of system scaffolds for c ation	

Job Role	Chargehand Scaffolding - System		
Role Description	This job role is responsible for erection and dismantle of various types of system scaffolds for complex structure at complex location		
NSQF level	4		
Minimum Educational Qualifications	Preferably 8 <sup>th</sup> standard		
Maximum Educational Qualifications	N.A		
Training (Suggested but not mandatory)	Recommended training period of 12-16 weeks as per QP of Chargehand Scaffolding-System		
Minimum Job Entry Age	18 years		
Experience	Desirable:  1. Non trained worker: 9 years site experience in same occupation  2. Trained worker: 3 years site experience as a certified Scaffolder - System		
Applicable National Occupational Standards (NOS)	<ol> <li>Compulsory:         <ol> <li>CON/N0358: Erect and dismantle outrigger / cantilever scaffolds</li> </ol> </li> <li>CON/N0359: Erect and dismantle scaffolds for complex structure and at complex location</li> <li>CON/N8001: Work effectively in a team to deliver desired results at the workplace</li> <li>CON/N8002: Plan and organize work to meet expected outcomes</li> <li>CON/N9001: Work according to personal health, safety and environment protocol at construction site</li> <li>Optional:         <ol> <li>N.A.</li> </ol> </li> </ol>		
Performance Criteria	As described in the relevant OS units		





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.	

Keywords /Terms	Description
CON	Construction
NSQF	National Skill Qualifications Framework
QP	Qualification Pack
OS	Occupational Standards
TBD	To Be Decided







/N0358 Erect and dismantle outrigger / cantilever scaffolds

# National Occupational Standard



# **Overview**

This NOS covers the skills and knowledge required by a workman to be proficient in erecting and dismantling outrigger / cantilever scaffolds.







CON/N0358 Erect and dismantle outrigger / cantilever scaffolds

/NU330	Erect and dismantie outrigger / cantilever scarroids		
Unit Code	CON/N0358		
Unit Title (Task)	Erect and dismantle outrigger / cantilever scaffolds		
Description	This unit describes the skills and knowledge required to erect and dismantle outrigger / cantilever scaffolds		
Scope	The scope covers the following:  • Erect outrigger/ cantilever scaffold in a safe manner  • Dismantle outrigger/ cantilever scaffolds in a safe manner		
Performance Criteria (	(PC) w.r.t. the Scope		
Element	Performance Criteria		
Erect outrigger / cantilever scaffolds in a safe manner	To be competent, the user/individual on the job must be able to:  PC1. check and ensure that area around scaffold on ground has been barricaded to ensure safety  PC2. check and ensure that fall protection is in place to ensure safety including guard rails, safety nets, wire mesh, toe boards, etc.  PC3. read and understand schematic working drawing  PC4. calculate the number of components required from the drawing  PC5. understand the fixing and support process for scaffold  PC6. use right components and follow erection procedure as per work method statement with respect to the types of scaffolds  PC7. check verticality of scaffold at first level of erection and correct (if required) before moving to the next level  PC8. check rigidity and stability of scaffold  PC9. ensure outrigger beams do not extend beyond prescribed length from face of structureensure beam is securely braced to avoid tipping and movement  PC10. ensure that in-board and out-board ends of the outrigger beams are of required length  PC11. ensure that in-board ends of beams are securely anchored or braced  PC12. ensure that entire supporting structure is securely braced to prevent any horizontal movement  PC13. ensure that base of scaffold is erected as per requirements and in a safe manner  PC14. complete work within the allocated time with quality and safety  PC15. report to superior for completion of work & for checking, do any rework as suggested by engineer in charge or superior, and get it approved		
Dismantle outrigger / cantilever scaffolds in a safe manner	PC16. ensure standard procedures are followed for dismantling of outrigger /cantilever scaffolds PC17. check for rigidity and stability of scaffold before dismantling and maintain during dismantling PC18. ensure scaffolds are dismantled using proper tools & tackles		







# Erect and dismantle outrigger / cantilever scaffolds PC19. lower scaffold material in a safe manner, manually or by using mechanical

	devices		
	devices PC20. ensure that all the fixtures and small components are staked properly for		
	further use		
	PC21. clean and store scaffold components for further use		
Knowledge and Ur	nderstanding (K)		
A. Organizational	The user/individual on the job needs to know and understand:		
Context	KA1. standard procedures for scaffolding work		
(Knowledge of	KA2. safety rules and regulations for handling and storing relevant tools and		
the company /	equipment and materials for reinforcement works		
organization and	KA3. personal protection including the use of the related safety gears and		
its processes)	equipment		
	KA4. precautions and measures required in the lifting and movement of		
	heavy components and materials		
	KA5. service request procedures for tools, materials and equipments		
	KA6. statutory compliance requirements related to working at height		
B. Technical	The user/individual on the job needs to know and understand:		
Knowledge	KB1. how to read and interpret scaffolding drawing, other relevant working		
oureuge	drawings and working method statement		
	KB2. units of measurements		
	KB3. conversion of measurements units		
	KB4. basic arithmetic and geometric calculations		
	KB5. various types of measurements and marking tools		
	KB6. different types of scaffolds system such as pipe &couplers and other		
common			
	customized system scaffold (frame scaffold ) and method of erection		
	KB7. scaffolds components, their size and fixing accessories		
	KB8. how to follow a methodical scaffolding plan as per the site requirements		
	KB9. maintenance of erected scaffold and safe dismantling of scaffolds while working at heights		
	KB10. selection and use of various lifting devices		
	KB11. how to check and sort out all the related scaffolding components		
	KB12. how to identify and replace any damaged components		
	KB13. how to check and ensure alignment of scaffold		
	KB14. required dimensions of outrigger beams		
	KB15. appropriate method for securely bracing outrigger beam		
	KB16. how to carry out loading		
	KB17. erection of cantilever/outrigger scaffold in a safe manner		
	KB18. how to brace, secure and provide support to cantilever/outrigger scaffold		
	KB19. importance of getting scaffold checked by inspector		
Skills (S)			







CON/N0358 Erect and dismantle outrigger / cantilever scaffolds

N0358	Erect and dismantle outrigger / cantilever scaffolds
	Writing Skills
	The user/ individual on the job needs to know and understand how to:
	SA1. write in one or more language, preferably in the local language of the site & basic English
	SA2. provide clear and simple instructions, details & sketches to sub-ordinate
	Reading Skills
	The user/ individual on the job needs to know and understand how to:
A. Core Skills/	SA3. read in one or more language, preferably in the local language of the site & basic English
Generic Skills	SA4. read sketches, drawing or instructions provided for the scaffolding work
	SA5. read various, sign boards, safety rules and safety tags, instructions related
	to exit routes during emergency at the workplace
	Oral Communication (Listening and Speaking skills)
	The user/ individual on the job needs to know and understand how to:
	SA6. speak in one or more language, preferably in the local language of the site
	SA7. orally and effectively communicate about sketches, drawing or instructions
	provided for the scaffolding work
	SA8. speak and convey about various, sign boards, safety rules and safety tags,
	instructions related to exit routes during emergency at the workplace
	Decision Making
	The user/individual on the job needs to know and understand how to:
	SB1. decide whether the work place is safe for working and also relevant task is not creating hazardous condition for others
	SB2. decide on manpower, tools , material and equipment for relevant work
B. Professional	SB3. decide on the method for erection and dismantle of outrigger/cantilever scaffold
Skills	Plan and Organise
	The user/individual on the job needs to know and understand how to:
	SB4. plan work & organize required resource in coordination with team members
	and superior
	Customer centricity
	The user/individual on the job needs to know and understand how to:
	SB5. perform work as per agreed time schedule and quality
	Problem solving







#### Erect and dismantle outrigger / cantilever scaffolds

The user/individual on the job needs to know and understand how to:

- SB6. rectify any problem related to erection of outrigger/cantilever scaffold
- SB7. resolve concerns raised by the scaffolding gang
- SB8. resolve any conflict within the team

#### **Analytical Thinking**

The user/individual on the job needs to know and understand how to:

- SB9. correlate the sequence of fixing of scaffolding with respect to other proceeding activity of other trade
- SB10. optimize resources
- SB11. minimize wastages

#### **Critical Thinking**

The user/individual on the job needs to know and understand how to:

- SB12. evaluate the complexity of the task and seek assistance and support whereve required
- SB13. identify violation of any safety norms which may lead to accidents









# Erect and dismantle outrigger / cantilever scaffolds

# **NOS Version Control**

NOS Code	CON/N0358		
Credits (NSQF)	TBD	Version number	1.0
Industry	Construction	Drafted on	07/05/2015
Industry Sub-sector	Real Estate and Infrastructure and Construction	Last reviewed on	23/05/2015
Occupation	Scaffolding	Next review date	23/05/2017











Erect and dismantle scaffolds for complex structure and at complex location

# National Occupational Standard



# **Overview**

This NOS covers the skills and knowledge required by a workman to be proficient in erecting and dismantling scaffolds for complex structure and at complex location



# National Occupational Standards



CON/N0359

Erect and dismantle scaffolds for complex structure and at complex location

Unit Code	CON/N0359  Erect and dismantle scaffolds for complex structure and at complex location		
Unit Title (Task)			
Description	This unit describes the skills and knowledge required to erect and dismantle scaffolds for complex structure and at complex location		
Scope	<ul> <li>Erect system scaffold for complex structure and at complex location (High rise structure, complex architectural structures, confined area and in large opening)</li> <li>Dismantle scaffolds for complex structure and at complex location in a safe manner</li> </ul>		
Performance Criteria (	PC) w.r.t. the Scope		
Element	Performance Criteria		
Erect scaffolds for complex structure and at complex location (High rise structure, complex architectural structures, confined area and in large opening )	PC1. check and ensure that area on ground has been provided with rigid barricading to ensure safety PC2. check and ensure that fall protection is in place to ensure safety including guard rails, safety nets, wire mesh, toe boards, etc. while working at height PC3. close all opening in case of erection of scaffold in lift area PC4. check compactness of ground by visual / physical check PC5. place base plates and sole boards on ground as per marking PC6. select scaffold (pipe & coupler or frame scaffold) on the basis of need and requirement PC7. use right components and follow erection procedure as per work method statement with respect to the types of scaffolds PC8. erect separate scaffolds with platforms of same height (for large radius curves) PC9. check verticality of scaffold at first level of erection and correct (if required) before moving to the next level PC10. ensure correct method in case erection of scaffold in confined area or in large opening PC11. ensure shifting of scaffold material from ground level to the desired level manually or by using mechanical devices in a safe manner PC12. check rigidity and stability of scaffold PC13. provide adequate support to the scaffold erected as per standard practice PC14. provide and ensure support at every 6 m from permanent structure for high rise structure scaffold PC15. ensure height of scaffold erected is within permissible limits and as per instructions		







Erect and dismantle scaffolds for complex structure and at complex location

Dismantle scaffolds	PC16. fix walk boards, guard rail, toe boards and other components on the walking platform  PC17. complete work within the allocated time with quality and safety  PC18. report to superior for completion of work and checking, do any rework as suggested by engineer in charge or superior, and get it approved  PC19. follow and ensure standards procedure are followed for dismantling of scaffold  PC20. check for rigidity and stability of scaffold before dismantling and maintain during dismantling  PC21. remove guard rails, toe boards, walk boards and other components
for complex structure and at	sequentially
complex location in a safe manner	PC22. ensure scaffolds are dismantle using proper tools & tackles PC23. lower scaffold material in a safe manner, manually or by using mechanical devices
	PC24. ensure that all the fixtures and small components are staked properly for further use  PC25. clean and store scaffold components for further use
Knowledge and Ur	nderstanding (K)
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand:  KA1. standard procedures for scaffolding work  KA2. safety rules and regulations for handling and storing relevant tools and equipment and materials for reinforcement works  KA3. personal protection including the use of the related safety gears and equipment  KA4. precautions and measures required in the lifting and movement of heavy components and materials  KA5. service request procedures for tools, materials and equipments  KA6. statutory compliance requirements related to working at height
B. Technical Knowledge	The user/individual on the job needs to know and understand:  KB1. how to read and interpret scaffolding drawing , other relevant drawings and working method statement  KB2. units of measurements  KB3. conversion of measurements units  KB4. basic arithmetic and geometric calculations  KB5. different types of measurements and marking tools  KB6. different types of scaffolds system such as pipe &couplers and other common customized system scaffold (frame scaffold ) and method of erection  KB7. scaffolds components, their size and fixing accessories  KB8. how to follow a methodical scaffolding plan as per the site requirements







Erect and dismantle scaffolds for complex structure and at complex location

	KB9. maintenance of erected scaffold and safe dismantling of scaffolds while working at heights  KB10. various types of scaffold used in confined area  KB11. methods for erection of scaffold in case of complex structure and at complex location such as high rise structure, complex architecture structures, confined area and in openings  KB12. importance of safety in case of erection of scaffold in large openings  KB13. selection and use of various lifting devices  KB14. check and sort out all the related scaffolding components  KB15. identify and replace any damaged components  KB16. how to check and ensure alignment of scaffold  KB17. knowledge and understanding about loading  KB18. how to respond in case of heavy rain, storm, lightening  KB19. importance of getting scaffold checked by inspector
Skills (S)	
A. Core Skills/ Generic Skills	Writing Skills  The user/ individual on the job needs to know and understand how to:  SA1. write in one or more language, preferably the local language at the site SA2. provide clear and simple instructions, details & sketches to sub-ordinate  Reading Skills  The user/ individual on the job needs to know and understand how to: SA3. read one or more language, preferably the local language at the site SA4. read sketches, drawing or instructions provided for the scaffolding work SA5. read various, sign boards, safety rules and safety tags, instructions related to exit routes during emergency at the workplace  Oral Communication (Listening and Speaking skills)
	The user/ individual on the job needs to know and understand how to:  SA6. speak one or more language, preferably the local language at the site  SA7. orally and effectively communicate about various sketches, drawing or instructions provided for the scaffolding work  SA8. speak and convey about various, sign boards, safety rules and safety tags, instructions related to exit routes during emergency at the workplace
	Decision Making
B. Professional Skills	The user/individual on the job needs to know and understand how to:  SB1. decide whether the work place is safe for working and also relevant task is not creating hazardous condition for others  SB2. decide on manpower, tools, material and equipment for relevant work
	, , , , , , , , , , , , , , , , , , , ,







Erect and dismantle scaffolds for complex structure and at complex location

SB3.	decide on the method for erection and dismantle of scaffold for complex
S	tructure and at complex location

#### **Plan and Organise**

The user/individual on the job needs to know and understand how to:

SB4. plan work & organize required resource in coordination with team members and superior

#### **Customer centricity**

The user/individual on the job needs to know and understand how to:

SB5. perform work as per agreed time schedule and quality

#### **Problem solving**

The user/individual on the job needs to know and understand how to:

- SB6. rectify any problem in related to erection of scaffold for complex structure such as high rise structure, complex architectural structural
- SB7. rectify any problem in related to erection of scaffold in confines areas or in openings
- SB8. resolve concerns raised by the scaffolding gang
- SB9. resolve any conflict within the team

#### **Analytical Thinking**

The user/individual on the job needs to know and understand how to:

- SB10. correlate the sequence of fixing of scaffolding with respect to other proceeding activity of other trade
- SB11. optimize resources
- SB12. minimize wastages

#### **Critical Thinking**

The user/individual on the job needs to know and understand how to:

- SB13. evaluate the complexity of the task and seek assistance and support wherever required
- SB14. identify violation of any safety norms which may lead to accidents







Erect and dismantle scaffolds for complex structure and at complex location

# **NOS Version Control**

NOS Code	CON/N0359		
Credits (NSQF)	TBD	Version number	1.0
Industry	Construction	Drafted on	07/05/2015
Industry Sub-sector	Real Estate and Infrastructure and Construction	Last reviewed on	23/05/2015
Occupation	Scaffolding	Next review date	23/05/2017









\_\_\_\_\_

# National Occupational Standard



# **Overview**

This NOS covers the skill and knowledge required to work effectively within a team to achieve the desired results.



# National Occupational Standards



# CON/N8001

#### Work effectively in a team to deliver desired results at the workplace

Unit Code	CON/N8001
Unit Title (Task)	Work effectively in a team to deliver desired results at the workplace
Description	This unit describes the skills and knowledge required to work effectively within a team to achieve the desired results.
Scope	<ul> <li>Interact and communicate effectively with co-workers, superiors and sub-ordinates across different teams</li> <li>Support co-workers, superiors and sub-ordinates within the team and across interfacing teams to ensure effective execution of assigned task</li> </ul>
Performance Criteria (	PC) w.r.t. the Scope
Element	Performance Criteria
Interact and communicate in effective and conclusive manner	To be competent, the user / individual on the job must be able to:  PC1. pass on work related information/ requirement clearly to the team members  PC2. inform co-workers and superiors about any kind of deviations from work  PC3. address the problems effectively and report if required to immediate supervisor appropriately  PC4. receive instructions clearly from superiors and respond effectively on the same  PC5. communicate to team members/subordinates for appropriate work technique and method  PC6. seek clarification and advice as per the requirement and applicability  PC7. hand over the required material, tools tackles, equipment and work fronts
to execute project requirements	timely to interfacing teams  PC8. work together with co-workers in a synchronized manner
Knowledge and Ur	nderstanding (K)
A. Organizational Context (Knowledge of the company / organization and its processes)	<ul> <li>The user/individual on the job needs to know and understand:</li> <li>KA1. own roles and responsibilities</li> <li>KA2. importance of effective communication and establishing strong working relationships with co-workers</li> <li>KA3. risks of a failure in teamwork in terms of effects on project outcomes, timelines, safety at the construction site, etc.</li> <li>KA4. different modes of communication, and its appropriate usage</li> <li>KA5. importance of creating healthy and cooperative work environment among the gangs of workers</li> </ul>







# Work effectively in a team to deliver desired results at the workplace

B. Technical Knowledge  Knowledge  K1. different activities within his work area where an interaction with other workers is required  K81. different activities within his work area where an interaction with other workers is required  K82. applicable techniques of work, properties of materials used, tools and tackles  used, safety standards that co-workers might need as per the requirement K83. importance of proper and effective communication and the expected adverse  effects in case of failure relating to quality, timelines, safety, risks at the construction project site  K84. importance and need of supporting co-workers facing problems for smooth functioning of work  Skills (S)  Writing Skills  The user/ individual on the job needs to know and understand how to:  SA1. write in one or more languages, preferably in the local language of the site  Reading Skills  The user/ individual on the job needs to know and understand how to:  SA2. read in one or more languages, preferably in the local language of the site SA3. read communication from team members regarding work completed, materials used, tools and tackles used, support required  Oral Communication (Listening and Speaking skills)  The user/ individual on the job needs to know and understand how to:  SA4. speak in one or more languages, preferably in one of the local languages of the site  SA5. listen and follow instructions / communication shared by superiors/ co-workers regarding team requirements or interfaces during work processes  SA6. orally communicate with co-workers regarding support required to complete the respective work  Decision Making  The user/individual on the job needs to know and understand how to:  S81. decide on what information is to be shared with co-workers within the team or from interfacing gang of workers  Plan and Organise		·
effects in case of failure relating to quality, timelines, safety, risks at the construction project site  KB4. importance and need of supporting co-workers facing problems for smooth functioning of work  Skills (S)  Writing Skills  The user/ individual on the job needs to know and understand how to: SA1. write in one or more languages, preferably in the local language of the site  Reading Skills  The user/ individual on the job needs to know and understand how to: SA2. read in one or more languages, preferably in the local language of the site SA3. read communication from team members regarding work completed, materials used, tools and tackles used, support required  Oral Communication (Listening and Speaking skills)  The user/ individual on the job needs to know and understand how to: SA4. speak in one or more languages, preferably in one of the local languages of the site SA5. listen and follow instructions / communication shared by superiors/ coworkers regarding team requirements or interfaces during work processes SA6. orally communicate with co-workers regarding support required to complete the respective work  Decision Making  The user/individual on the job needs to know and understand how to: SB1. decide on what information is to be shared with co-workers within the team or from interfacing gang of workers		KB1. different activities within his work area where an interaction with other workers is required  KB2. applicable techniques of work, properties of materials used, tools and tackles  used, safety standards that co- workers might need as per the requirement
Mriting Skills  The user/ individual on the job needs to know and understand how to: SA1. write in one or more languages, preferably in the local language of the site  Reading Skills  The user/ individual on the job needs to know and understand how to: SA2. read in one or more languages, preferably in the local language of the site SA3. read communication from team members regarding work completed, materials used, tools and tackles used, support required  Oral Communication (Listening and Speaking skills)  The user/ individual on the job needs to know and understand how to: SA4. speak in one or more languages, preferably in one of the local languages of the site SA5. listen and follow instructions / communication shared by superiors/ coworkers regarding team requirements or interfaces during work processes SA6. orally communicate with co-workers regarding support required to complete the respective work  Decision Making  The user/individual on the job needs to know and understand how to: SB1. decide on what information is to be shared with co-workers within the team or from interfacing gang of workers		effects in case of failure relating to quality, timelines, safety, risks at the construction project site  KB4. importance and need of supporting co-workers facing problems for smooth
The user/ individual on the job needs to know and understand how to:  SA1. write in one or more languages, preferably in the local language of the site  Reading Skills  The user/ individual on the job needs to know and understand how to:  SA2. read in one or more languages, preferably in the local language of the site  SA3. read communication from team members regarding work completed, materials used, tools and tackles used, support required  Oral Communication (Listening and Speaking skills)  The user/ individual on the job needs to know and understand how to:  SA4. speak in one or more languages, preferably in one of the local languages of the site  SA5. listen and follow instructions / communication shared by superiors/ coworkers regarding team requirements or interfaces during work processes  SA6. orally communicate with co-workers regarding support required to complete the respective work  Decision Making  The user/individual on the job needs to know and understand how to:  SB1. decide on what information is to be shared with co-workers within the team or from interfacing gang of workers	Skills (S)	
A. Core Skills/ Generic Skills  The user/ individual on the job needs to know and understand how to: SA2. read in one or more languages, preferably in the local language of the site SA3. read communication from team members regarding work completed, materials used, tools and tackles used, support required  Oral Communication (Listening and Speaking skills)  The user/ individual on the job needs to know and understand how to: SA4. speak in one or more languages, preferably in one of the local languages of the site SA5. listen and follow instructions / communication shared by superiors/ coworkers regarding team requirements or interfaces during work processes SA6. orally communicate with co-workers regarding support required to complete the respective work  Decision Making  The user/individual on the job needs to know and understand how to: SB1. decide on what information is to be shared with co-workers within the team or from interfacing gang of workers		Writing Skills
A. Core Skills/ Generic Skills  The user/ individual on the job needs to know and understand how to:  SA2. read in one or more languages, preferably in the local language of the site  SA3. read communication from team members regarding work completed, materials used, tools and tackles used, support required  Oral Communication (Listening and Speaking skills)  The user/ individual on the job needs to know and understand how to: SA4. speak in one or more languages, preferably in one of the local languages of the site  SA5. listen and follow instructions / communication shared by superiors/ coworkers regarding team requirements or interfaces during work processes SA6. orally communicate with co-workers regarding support required to complete the respective work  Decision Making  The user/individual on the job needs to know and understand how to: SB1. decide on what information is to be shared with co-workers within the team or from interfacing gang of workers		The user/ individual on the job needs to know and understand how to:
The user/ individual on the job needs to know and understand how to: SA2. read in one or more languages, preferably in the local language of the site SA3. read communication from team members regarding work completed, materials used, tools and tackles used, support required  Oral Communication (Listening and Speaking skills)  The user/ individual on the job needs to know and understand how to: SA4. speak in one or more languages, preferably in one of the local languages of the site SA5. listen and follow instructions / communication shared by superiors/ coworkers regarding team requirements or interfaces during work processes SA6. orally communicate with co-workers regarding support required to complete the respective work  Decision Making  The user/individual on the job needs to know and understand how to: SB1. decide on what information is to be shared with co-workers within the team or from interfacing gang of workers		SA1. write in one or more languages, preferably in the local language of the site
SA2. read in one or more languages, preferably in the local language of the site SA3. read communication from team members regarding work completed, materials used, tools and tackles used, support required  Oral Communication (Listening and Speaking skills)  The user/ individual on the job needs to know and understand how to: SA4. speak in one or more languages, preferably in one of the local languages of the site SA5. listen and follow instructions / communication shared by superiors/ coworkers regarding team requirements or interfaces during work processes SA6. orally communicate with co-workers regarding support required to complete the respective work  Decision Making  The user/individual on the job needs to know and understand how to: SB1. decide on what information is to be shared with co-workers within the team or from interfacing gang of workers		Reading Skills
SA3. read communication from team members regarding work completed, materials used, tools and tackles used, support required  Oral Communication (Listening and Speaking skills)  The user/ individual on the job needs to know and understand how to: SA4. speak in one or more languages, preferably in one of the local languages of the site SA5. listen and follow instructions / communication shared by superiors/ coworkers regarding team requirements or interfaces during work processes SA6. orally communicate with co-workers regarding support required to complete the respective work  Decision Making  The user/individual on the job needs to know and understand how to: SB1. decide on what information is to be shared with co-workers within the team or from interfacing gang of workers		
Oral Communication (Listening and Speaking skills)    The user/ individual on the job needs to know and understand how to:   SA4.   speak in one or more languages, preferably in one of the local languages of the site   SA5.   listen and follow instructions / communication shared by superiors/ coworkers regarding team requirements or interfaces during work processes   SA6.   orally communicate with co-workers regarding support required to complete the respective work   Decision Making   The user/individual on the job needs to know and understand how to:     SB1.   decide on what information is to be shared with co-workers within the team or from interfacing gang of workers	A. Core Skills/	SA3. read communication from team members regarding work completed,
The user/ individual on the job needs to know and understand how to:  SA4. speak in one or more languages, preferably in one of the local languages of the site  SA5. listen and follow instructions / communication shared by superiors/ coworkers regarding team requirements or interfaces during work processes  SA6. orally communicate with co-workers regarding support required to complete the respective work  Decision Making  The user/individual on the job needs to know and understand how to:  SB1. decide on what information is to be shared with co-workers within the team or from interfacing gang of workers	Generic Skills	
SA4. speak in one or more languages, preferably in one of the local languages of the site  SA5. listen and follow instructions / communication shared by superiors/ coworkers regarding team requirements or interfaces during work processes  SA6. orally communicate with co-workers regarding support required to complete the respective work  Decision Making  The user/individual on the job needs to know and understand how to:  SB1. decide on what information is to be shared with co-workers within the team or from interfacing gang of workers		
the site  SA5. listen and follow instructions / communication shared by superiors/ coworkers regarding team requirements or interfaces during work processes  SA6. orally communicate with co-workers regarding support required to complete the respective work  Decision Making  The user/individual on the job needs to know and understand how to: SB1. decide on what information is to be shared with co-workers within the team or from interfacing gang of workers		
SA5. listen and follow instructions / communication shared by superiors/ coworkers regarding team requirements or interfaces during work processes  SA6. orally communicate with co-workers regarding support required to complete the respective work  Decision Making  The user/individual on the job needs to know and understand how to: SB1. decide on what information is to be shared with co-workers within the team or from interfacing gang of workers		
workers regarding team requirements or interfaces during work processes  SA6. orally communicate with co-workers regarding support required to complete the respective work  Decision Making  The user/individual on the job needs to know and understand how to: SB1. decide on what information is to be shared with co-workers within the team or from interfacing gang of workers		
complete the respective work  Decision Making  The user/individual on the job needs to know and understand how to: SB1. decide on what information is to be shared with co-workers within the team or from interfacing gang of workers		, , , , , , , , , , , , , , , , , , , ,
B. Professional Skills  The user/individual on the job needs to know and understand how to: SB1. decide on what information is to be shared with co-workers within the team or from interfacing gang of workers		
B. Professional Skills The user/individual on the job needs to know and understand how to: SB1. decide on what information is to be shared with co-workers within the team or from interfacing gang of workers		the respective work
Skills  SB1. decide on what information is to be shared with co-workers within the team or from interfacing gang of workers		Decision Making
or from interfacing gang of workers	B. Professional	The user/individual on the job needs to know and understand how to:
	Skills	SB1. decide on what information is to be shared with co-workers within the team
Plan and Organise		or from interfacing gang of workers
		Plan and Organise







#### Work effectively in a team to deliver desired results at the workplace

The user/individual on the job needs to know and understand how to:

SB2. plan work and organize required resources in coordination with team members

#### **Customer centricity**

The user/individual on the job needs to know and understand how to:

SB3. complete all assigned task in coordination with team members

#### **Problem solving**

The user/individual on the job needs to know and understand how to:

SB4. take initiative in resolving issues among co-workers or report the same to superiors

#### **Analytical Thinking**

The user/individual on the job needs to know and understand how to:

SB5. ensure best ways of coordination among team members

SB6. communicate with co-workers considering their educational / social background

#### **Critical Thinking**

The user/individual on the job needs to know and understand how to:

SB7. evaluate the complexity of task and determine if any guidance is required from superiors







Work effectively in a team to deliver desired results at the workplace

# **NOS Version Control**

NOS Code	CON/N8001		
Credits (NSQF)	TBD	Version number	1.0
Industry	Construction	Drafted on	07/05/2015
Industry Sub-sector	Real Estate and Infrastructure and Construction	Last reviewed on	23/05/2015
Occupation	Scaffolding	Next review date	23/05/2017









Plan and organize work to meet expected outcomes

# National Occupational Standard



# **Overview**

This NOS covers the skills and knowledge required to plan and organize work in order to meet expected quality in established time frame.



# National Occupational Standards



# CON/N8002 Plan and organize work to meet expected outcomes

Unit Code	CON/N8002
Unit Title (Task)	Plan and organize work to meet expected outcomes
Description	This unit describes the knowledge and the skills required for an individual to plan and organize own work in order to meet expected outcome.
Scope	This scope covers the following:  Prioritize work activities to achieve desired results Organize desired resources prior to commencement of work
Performance Criteria (	PC) w.r.t. the Scope
Element	Performance Criteria
Prioritize work activities to achieve desired results	To be competent, the user / individual on the job must be able to:  PC1. understand clearly the targets and timelines set by superiors  PC2. plan activities as per schedule and sequence  PC3. provide guidance to the subordinates to obtain desired outcome  PC4. plan housekeeping activities prior to and post completion of work
Organize desired resources prior to commencement of work	PC5. list and arrange required resources prior to commencement of work PC6. select and employ correct tools, tackles and equipment for completion of desired work PC7. complete the work with allocated resources PC8. engage allocated manpower in an appropriate manner PC9. use resources in an optimum manner to avoid any unnecessary wastage PC10. employ tools, tackles and equipment with care to avoid damage to the same PC11. organize work output, materials used, tools and tackles deployed, PC12. processes adopted to be in line with the specified standards and instructions
Knowledge and Ur	nderstanding (K)
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: KA1. importance of proper housekeeping KA2. policies, procedures and work targets set by superiors KA3. roles and responsibilities in executing the work for subordinates and self
B. Technical Knowledge	The user/individual on the job needs to know and understand:  KB1. standard practices of work to be adopted for assigned task  KB2. how to use available resources in a judicious and appropriate manner to minimize wastages or damage







# Plan and organize work to meet expected outcomes

Skills (S)		
	Writing Skills	
	The user/ individual on the job needs to know and understand how to:  SA1. write in one or more language, preferably in the local language of the site SA1. list out the assigned works and targets	
	Reading Skills	
A. Core Skills/ Generic Skills	The user/ individual on the job needs to know and understand how to:  SA2. read in one or more language, preferably in the local language of the site  SA3. read communication from co-workers, superiors and notices from other departments as per requirement of the level	
	Oral Communication (Listening and Speaking skills)	
	The user/ individual on the job needs to know and understand how to:  SA4. speak in one or more language, preferably in one of the local language of the site  SA5. listen and follow communication shared by co-workers regarding standard work processes, resources available, timelines, etc.  SA6. communicate effectively with co-workers and subordinates	
	Decision Making	
	The user/individual on the job needs to know and understand how to:  SB1. decide on what sequence is to be adopted for execution of work	
	Plan and Organise	
B. Professional	The user/individual on the job needs to know and understand how to:  SB2. plan and organize the materials, tools, tackles and equipment required to execute the work	
Skills	Customer centricity	
	The user/individual on the job needs to know and understand how to:  SB3. complete all assigned task with proper planning and organizing	
	Problem solving	
	The user/individual on the job needs to know and understand how to:  SB4. arrange or seek help to arrange for material, tools and tackles in case of shortfall	
	Analytical Thinking	







# Plan and organize work to meet expected outcomes

The user/individual on the job needs to know and understand how to:  SB5. analyze areas of work which could result in a delay of work, wastage of material or damage to tools and tackles
Critical Thinking
The user/individual on the job needs to know and understand how to:
SB6. evaluate potential solutions to minimize avoidable delays and wastages at the construction site









# Plan and organize work to meet expected outcomes

# **NOS Version Control**

NOS Code	CON/N8002		
Credits (NSQF)	TBD	Version number	1.0
Industry	Construction	Drafted on	07/05/2015
Industry Sub-sector	Real Estate and Infrastructure and Construction	Last reviewed on	23/05/2015
Occupation	Scaffolding	Next review date	23/05/2017









\_\_\_\_\_\_

# 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.







Unit Code	CON/N9001
Unit Title (Task)	Work according to personal health, safety and environment protocol at construction site
Description	This NOS covers the skill and knowledge required for an individual to work according to personal health, safety and environmental protocol at construction site
Scope	<ul> <li>The scope covers the following:</li> <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>
Performance Criteria (	PC) w.r.t. the Scope
Element	Performance Criteria
Follow safety norms as defined by organization	To be competent, the user / individual on the job must be able to:  PC1. identify and report any hazards, risks or breaches in site safety to the appropriate authority  PC2. follow emergency and evacuation procedures in case of accidents, fires, natural calamities  PC3. follow recommended safe practices in handling construction materials, including chemical and hazardous material whenever applicable  PC4. participate in safety awareness programs like Tool Box Talks, safety demonstrations, mock drills, conducted at site  PC5. identify near miss , unsafe condition and unsafe act
Adopt healthy & safe work practices	PC6. use appropriate Personal Protective Equipment (PPE) as per work requirements including:  • Head Protection (Helmets)  • Ear protection  • Fall Protection  • Foot Protection  • Face and Eye Protection,  • Hand and Body Protection  • Respiratory Protection (if required)  PC7. handle all required tools, tackles, materials & equipment safely  PC8. follow safe disposal of waste, harmful and hazardous materials as per EHS guidelines  PC9. install and apply properly all safety equipment as instructed  PC10. follow safety protocol and practices as laid down by site EHS department







Implement good housekeeping practices  Knowledge and Ur		PC11. collect and deposit construction waste into identified containers before disposal, separate containers that may be needed for disposal of toxic or hazardous wastes  PC12. apply ergonomic principles wherever required
	Organizational Context (Knowledge of the company / organization and its processes)  Technical Knowledge	The user/individual on the job needs to know and understand:  KA1. reporting procedures in cases of breaches or hazards for site safety, accidents, and emergency situations as per guidelines  KA2. types of safety hazards at construction sites  KA3. basic ergonomic principles as per applicability  The user/individual on the job needs to know and understand:  KB1. the procedure for responding to accidents and other emergencies at site  KB2. appropriate personal protective equipment to used based on various working conditions  KB3. importance of handling tools, equipment and materials as per applicable  KB4. health and environments effect of construction materials as per applicability  KB5. various environmental protection methods as per applicability  KB6. storage of waste including the following at appropriate location:  • non-combustible scrap material and debris  • combustible scrap material and debris  • general construction waste and trash (non-toxic, non-hazardous)  • any other hazardous wastes  • any other flammable wastes  KB7. how to use hazardous material, in a safe and appropriate manner as per applicability  KB8. safety relevant to tools, tackles, & requirement as per applicability  KB9. housekeeping activities relevant to task
	Skills (S)	
A	A. Core Skills/ Generic Skills	Writing Skills  The user/ individual on the job needs to know and understand how to:  SA2. write in one or more language, preferably in the local language of the site SA3. fill safety formats for near miss, unsafe conditions and safety suggestions  Reading Skills  The user/ individual on the job needs to know and understand how to: SA4. read in one or more language, preferably in the local language of the site SA5. read sign boards, notice boards relevant to safety







	Onel Communication (Historian and Constitute 1911)
	Oral Communication (Listening and Speaking skills)
	The user/ individual on the job needs to know and understand how to:
	SA6. speak in one or more language, preferably in one of the local language of
	the site
	SA7. listen instructions / communication shared by site EHS and superiors
	regarding site safety, and conducting tool box talk
	SA8. communicate reporting of site conditions, hazards, accidents, etc.
	Decision Making
	The user/individual on the job needs to know and understand how to:
	SB1. not create unsafe conditions for others
	SB2. keep the workplace clean and tidy
	Plan and Organise
	SB3. N.A
	Customer centricity
	SB4. N.A
B. Professional	Problem solving
Skills	The user/individual on the job needs to know and understand how to:
Skiiis	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
	Analytical Thinking
	The user/individual on the job needs to know and understand how to:
	SB6. assess and analyze areas which may affect health, safety and environment
	protocol on the site
	Critical Thinking
	The user/individual on the job needs to know and understand how to:
	SB7. ensure personal safety behavior
	SB8. respond to emergency







NOS Code	CON/N9001				
Credits (NSQF)	TBD	Version number	1.0		
Industry	Construction	Drafted on	07/05/2015		
Industry Sub-sector	Real Estate and Infrastructure and Construction	Last reviewed on	23/05/2015		
Occupation	Scaffolding	Next review date	23/05/2017		









Assessment Criteria for Chargehand Scaffolding System

#### **CRITERIA FOR ASSESSMENT OF TRAINEES**

<u>Job Role</u> Chargehand Scaffolding System

Qualification PackCON/Q0307Sector Skill CouncilConstruction

#### **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 70%. To pass the Qualification Pack, every trainee should score a minimum of 70% 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.

			Marks Allocation		ocation
Assessment outcomes	Assessment Criteria for outcomes	Total Mark	Out Of	Theory	Skills Practical
CON/N0358: Erect and dismantle outrigger / cantilever scaffolds	PC1. check and ensure that area around scaffold on ground has been barricaded to ensure safety	100	2	1	1
	PC2. check and ensure that fall protection is in place to ensure safety including guard rails, safety nets, wire mesh, toe boards, etc.		3	1	2
	PC3. read and understand schematic working drawing		4	2	2
	PC4. calculate the number of components required from the drawing		3	1	2
	PC5. understand the fixing and support process for scaffold		4	1	3







	PC6. use right components and follow erection procedure as per work method statement with respect to the types of scaffolds		6	1	5
	PC7. check verticality of scaffold at first level of erection and correct (if required) before moving to the next level		2	1	1
	PC8. check rigidity and stability of scaffold		3	1	2
	PC9. ensure outrigger beams do not extend beyond				
	prescribed length from face of structure		4		_
	PC10. ensure beam is securely braced to avoid tipping and movement		4	1	7
	PC11. ensure that in-board and out-board ends of the outrigger beams are of required length		2	4	4
	PC12. ensure that in-board ends of beams are securely anchored or braced		3	1	4
	PC13. ensure that entire supporting structure is securely braced to prevent any horizontal movement		3	1	2
	PC14. ensure that base of scaffold is erected as per requirements and in a safe manner		2	1	1
	PC15. complete work within the allocated time with		3	1	2
	quality and safety  PC16. report to superior for completion of work & for checking of scaffolding, do any rework as suggested by engineer in charge or superior, and get it approved		2	1	1
	PC17. ensure standard procedures are followed for dismantling of outrigger /cantilever scaffolds		20	6	14
	PC18. check for rigidity and stability of scaffold before dismantling and maintain during dismantling		8	3	5
	PC19. ensure scaffolds are dismantled using proper tools & tackles		5	2	3
	PC20. lower scaffold material in a safe manner, manually or by using mechanical devices		5	2	3
	PC21. ensure that all the fixtures and small components are staked properly for further use		6	1	5
	PC22. clean and store scaffold components for further use		6	1	5
		Total	100	30	70
CON/N0359: Erect and	PC1. check and ensure that area on ground has been provided with rigid barricading to ensure safety		2		
dismantle scaffolds for complex structure and at complex location	PC2. check and ensure that fall protection is in place to ensure safety including guard rails, safety nets, wire mesh, toe boards, etc. while working at height	100	3	1	4
	PC3. close all opening in case of erection of scaffold in lift area		3	1	2
	PC4. check compactness of ground by visual / physical check		2	1	1
	PC5. place base plates and sole boards on ground as per marking		2	1	1



CON/N8001: Work effectively





PC6. select scaffold (pipe & coupler or frame scaffold)		3		
on the basis of need and requirement			_	C
PC7. use right components and follow erection		_	2	6
procedure as per work method		5		
statement with respect to the types of scaffolds				
PC8. erect separate scaffolds with platforms of same		_	1	4
height (for large radius curves)		5	1	4
•				
PC9. check verticality of scaffold at first level of		2	1	1
erection and correct (if required) before moving to the next level		2	1	1
PC10. ensure correct method in case erection of				
		3		
scaffold in confined area or in large opening				
PC11. ensure shifting of scaffold material from ground				
level to the desired level		2	2	6
manually or by using mechanical devices in a safe				
manner		_	-	
PC12. check rigidity and stability of scaffold		3		
PC13. provide adequate support to the scaffold		3		
erected as per standard practice		,	1	5
PC14. provide and ensure support at every 6 m from		3	_	3
permanent structure for high rise structure scaffold		,		
PC15. ensure height of scaffold erected is within		2	1	1
permissible limits and as per instruction			_	-
PC16. fix walk boards, guard rail, toe boards and other		2	1	1
components on the walking platform			_	-
PC17. complete work within the allocated time with		3	1	2
quality and safety		,	_	
PC18. report to superior for completion of work & for				
checking of scaffold, do any rework as suggested by		2	1	1
engineer in charge or superior, and get it approved				
PC19. follow and ensure standards procedure are		20	6	14
followed for dismantling of scaffold			Ŭ	
PC20. check for rigidity and stability of scaffold before		8	3	5
dismantling and maintain during dismantling			J	<b>3</b>
PC21. remove guard rails, toe boards, walk boards				
and other components		4	1	3
sequentially				
PC22. ensure scaffolds are dismantle using proper		4	1	3
tools & tackles		•	_	,
PC23. lower scaffold material in a safe manner,		4	2	2
manually or by using mechanical devices		'	_	_
PC24. ensure that all the fixtures and small		5	1	4
components are staked properly for further use			_	•
PC25. clean and store scaffold components for further		5	1	4
use				
	Total	100	30	70
PC1. pass on work related information/ requirement	100	7	2	5
clearly to the team members	100	,	_	,







in a team to deliver desired results at the workplace	PC2. inform co-workers and superiors about any kind of deviations from work		7	2	5
	PC3. address the problems effectively and report if required to immediate supervisor appropriately	-	10	3	7
	PC4. receive instructions clearly from superiors and respond effectively on the same		7	2	5
	PC5. communicate to team members/subordinates for appropriate work technique and method		10	3	7
	PC6. seek clarification and advice as per the requirement and applicability		7	2	5
	PC7. hand over the required material, tools tackles, equipment and work fronts timely to interfacing teams		27	8	19
	PC8. work together with co-workers in a synchronized manner		27	8	19
		Total	100	30	70
CON/N8002: Plan and	PC1. understand clearly the targets and timelines set by superiors		7	2	5
organize work to	PC2. plan activities as per schedule and sequence		7	2	5
meet expected outcomes	PC3. provide guidance to the subordinates to obtain desired outcome	100	10	3	7
	PC4. plan housekeeping activities prior to and post completion of work		7	2	5
	PC5. list and arrange required resources prior to commencement of work		10	3	7
	PC6. select and employ correct tools, tackles and equipment for completion of desired work		10	3	7
	PC7. complete the work with allocated resources		10	3	7
	PC8. engage allocated manpower in an appropriate manner		10	3	7
	PC9. use resources in an optimum manner to avoid any unnecessary wastage		10	3	7
	PC10. employ tools, tackles and equipment with care to avoid damage to the same		7	2	5
	PC11. organize work output, materials used, tools and tackles deployed,		7	2	5
	PC12. processes adopted to be in line with the specified standards and instructions		7	2	5
		Total	100	30	70
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 authority		7	2	5
	PC2. follow emergency and evacuation procedures in case of accidents, fires, natural calamities		7	2	5
	PC3. follow recommended safe practices in handling construction materials, including chemical and hazardous material whenever applicable	100	10	3	7
	PC4. participate in safety awareness programs like Tool Box Talks, safety demonstrations, mock drills, conducted at site		7	2	5







PC5. identify near miss , unsafe condition and unsafe		7	2	5
act				_
PC6. use appropriate Personal Protective Equipment				
(PPE) as per work requirements including:				
Head Protection (Helmets)				
Ear protection				
Fall Protection		10	3	7
Foot Protection				
Face and Eye Protection				
Hand and Body Protection				
Respiratory Protection (if required)				
PC7. handle all required tools, tackles, materials &		7	2	Г
equipment safely		/	2	5
PC8. follow safe disposal of waste, harmful and		7	2	5
hazardous materials as per EHS guidelines		,	2	5
PC9. install and apply properly all safety equipment as		13	4	9
instructed		13	4	9
PC10. follow safety protocol and practices as laid		12	4	0
down by site EHS department		13	4	9
PC11. collect and deposit construction waste into				
identified containers before disposal, separate		_	2	_
containers that may be needed for disposal of toxic or		7	2	5
hazardous wastes				
PC12. apply ergonomic principles wherever required		7	2	5
11,7,0	Total	100	30	70