



Chargehand Scaffolding - System

QP Code: CON/Q0307

Version: 1.0

NSQF Level: 4

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CON/Q0307: Chargehand Scaffolding - System

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.

Applicable National Occupational Standards (NOS)

Compulsory NOS:

1. [CON/N0358: Erect and dismantle outrigger / cantilever scaffolds](#)
2. [CON/N0359: Erect and dismantle scaffolds for complex structure and at complex location](#)
3. [CON/N8001: Work effectively in a team to deliver desired results at the workplace](#)
4. [CON/N8002: Plan and organize work to meet expected outcomes](#)
5. [CON/N9001: Work according to personal health, safety and environment protocol at construction site](#)

Qualification Pack (QP) Parameters

Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Scaffolding
Country	India



Qualification Pack



NSQF Level	4
Credits	NA
Aligned to NCO/ISCO/ISIC Code	NCOâ€¢2004/9313.90
Minimum Educational Qualification & Experience	8th Class with 3-5 Years of experience as a certified Scaffolder - System OR 8th Class with 5-10 Years of experience in case of a Non trained worker, in same occupation
Minimum Level of Education for Training in School	
Pre-Requisite License or Training	Recommended training period of 12-16 weeks as per QP of Chargehand Scaffolding-System
Minimum Job Entry Age	18 Years
Last Reviewed On	23/05/2015
Next Review Date	31/03/2022
Deactivation Date	31/03/2022
NSQC Approval Date	05/08/2015
Version	1.0
Reference code on NQR	2015/CON/CSDCI/01150
NQR Version	1.0



CON/N0358: 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

Elements and 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 structure ensure 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 of scaffolding, do any rework as suggested by engineer in charge or superior, and get it approved
- PC16.** ensure standard procedures are followed for dismantling of outrigger /cantilever scaffolds

Dismantle outrigger / cantilever scaffolds in a safe manner

To be competent, the user/individual on the job must be able to:

- PC17.** check for rigidity and stability of scaffold before dismantling and maintain during dismantling
- PC18.** ensure scaffolds are dismantled using proper tools & tackles
- PC19.** lower scaffold material in a safe manner, manually or by using mechanical devices



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PC20. ensure that all the fixtures and small components are staked properly for further use

PC21. clean and store scaffold components for further use

PC22. clean and store scaffold components for further use

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. standard practices for scaffolding work

KU2. safety rules regulation and procedures for handling and storing of scaffold material

KU3. personal protection including the use of relevant safety gears, equipments

KU4. precautions and measures required in the lifting and movement of heavy components and materials

KU5. service request procedures for tools, materials and equipments

KU6. statutory compliance requirements related to working at height

KU7. how to read and interpret scaffolding drawing , other relevant working drawings and working method statement

KU8. units of measurements

KU9. conversion of measurements units

KU10. basic arithmetic and geometric calculations

KU11. various types of measurements and marking tools

KU12. different types of scaffolds system such as pipe & couplers and other common customized system scaffold (frame scaffold) and method of erection

KU13. scaffolds components, their size and fixing accessories

KU14. how to follow a methodical scaffolding plan as per the site requirements

KU15. maintenance of erected scaffold and safe dismantling of scaffolds while working at heights

KU16. selection and use of various lifting devices

KU17. how to check and sort out all the related scaffolding components

KU18. how to identify and replace any damaged components

KU19. how to check and ensure alignment of scaffold

KU20. required dimensions of outrigger beams

KU21. appropriate method for securely bracing outrigger beam

KU22. how to carry out loading

KU23. erection of cantilever/outrigger scaffold in a safe manner

KU24. how to brace, secure and provide support to cantilever/outrigger scaffold

KU25. importance of getting scaffold checked by inspector

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. write in one or more language, preferably in the local language of the site & basic English



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- GS2.** provide clear and simple instructions, details & sketches to sub-ordinate
- GS3.** read in one or more language, preferably in the local language of the site & basic English
- GS4.** read sketches, drawing or instructions provided for the scaffolding work
- GS5.** read various, sign boards, safety rules and safety tags , instructions related to exit routes during emergency at the workplace
- GS6.** speak in one or more language, preferably in the local language of the site
- GS7.** orally and effectively communicate about sketches, drawing or instructions provided for the scaffolding work
- GS8.** speak and convey about various, sign boards, safety rules and safety tags , instructions related to exit routes during emergency at the workplace
- GS9.** decide whether the work place is safe for working and also relevant task is not creating hazardous condition for others
- GS10.** decide on manpower, tools , material and equipment for relevant work
- GS11.** decide on the method for erection and dismantle of outrigger/cantilever scaffold
- GS12.** plan work & organize required resource in coordination with team members and superior
- GS13.** perform work as per agreed time schedule and quality
- GS14.** rectify any problem related to erection of outrigger/cantilever scaffold
- GS15.** resolve concerns raised by the scaffolding gang
- GS16.** resolve any conflict within the team
- GS17.** correlate the sequence of fixing of scaffolding with respect to other proceeding activity of other trade
- GS18.** optimize resources
- GS19.** minimize wastages
- GS20.** evaluate the complexity of the task and seek assistance and support wherever required
- GS21.** identify violation of any safety norms which may lead to accidents



Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Erect outrigger / cantilever scaffolds in a safe manner</i>	15	35	-	-
PC1. check and ensure that area around scaffold on ground has been barricaded to ensure safety	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	1	2	-	-
PC3. read and understand schematic working drawing	2	2	-	-
PC4. calculate the number of components required from the drawing	1	2	-	-
PC5. understand the fixing and support process for scaffold	1	3	-	-
PC6. use right components and follow erection procedure as per work method statement with respect to the types of scaffolds	1	5	-	-
PC7. check verticality of scaffold at first level of erection and correct (if required) before moving to the next level	1	1	-	-
PC8. check rigidity and stability of scaffold	1	2	-	-
PC9. ensure outrigger beams do not extend beyond prescribed length from face of structure ensure beam is securely braced to avoid tipping and movement	1	4	-	-
PC10. ensure that in-board and out-board ends of the outrigger beams are of required length	-	3	-	-
PC11. ensure that in-board ends of beams are securely anchored or braced	1	2	-	-
PC12. ensure that entire supporting structure is securely braced to prevent any horizontal movement	-	2	-	-
PC13. ensure that base of scaffold is erected as per requirements and in a safe manner	1	2	-	-



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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC14. complete work within the allocated time with quality and safety	1	1	-	-
PC15. 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	1	2	-	-
PC16. ensure standard procedures are followed for dismantling of outrigger /cantilever scaffolds	1	1	-	-
<i>Dismantle outrigger / cantilever scaffolds in a safe manner</i>	15	35	-	-
PC17. check for rigidity and stability of scaffold before dismantling and maintain during dismantling	6	14	-	-
PC18. ensure scaffolds are dismantled using proper tools & tackles	3	5	-	-
PC19. lower scaffold material in a safe manner, manually or by using mechanical devices	2	3	-	-
PC20. ensure that all the fixtures and small components are staked properly for further use	2	3	-	-
PC21. clean and store scaffold components for further use	1	5	-	-
PC22. clean and store scaffold components for further use	1	5	-	-
NOS Total	30	70	-	-



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National Occupational Standards (NOS) Parameters

NOS Code	CON/N0358
NOS Name	Erect and dismantle outrigger / cantilever scaffolds
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Scaffolding
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	23/05/2015
Next Review Date	31/03/2022
NSQC Clearance Date	05/08/2015



CON/N0359: Erect and dismantle scaffolds for complex structure and at complex location

Description

This unit describes the skills and knowledge required to erect and dismantle scaffolds for complex structure and at complex location

Scope

The scope covers the following:

- Erect system scaffold for complex structure and at complex location (High rise structure, complex architectural structures, confined area and in large opening)
- Dismantle scaffolds for complex structure and at complex location in a safe manner

Elements and Performance Criteria

Erect system scaffold for complex structure and at complex location (High rise structure, complex architectural structures, confined area and in large opening)

To be competent, the user/individual on the job must be able to:

- 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 instruction
- 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



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PC18. report to superior for completion of work & for checking of scaffold, do any rework as suggested by engineer in charge or superior, and get it approved

Dismantle scaffolds for complex structure and at complex location in a safe manner

To be competent, the user/individual on the job must be able to:

- 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 sequentially
- 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 Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** standard practices for scaffolding work
- KU2.** safety rules regulation and procedures for handling and storing of scaffold material
- KU3.** personal protection including the use of relevant safety gears, equipments
- KU4.** precautions and measures required in the lifting and movement of heavy components and materials
- KU5.** service request procedures for tools, materials and equipments
- KU6.** statutory compliance requirements related to working at height
- KU7.** how to read and interpret scaffolding drawing , other relevant working drawings and working method statement
- KU8.** units of measurements
- KU9.** conversion of measurements units
- KU10.** basic arithmetic and geometric calculations
- KU11.** various types of measurements and marking tools
- KU12.** different types of scaffolds system such as pipe & couplers and other common customized system scaffold (frame scaffold) and method of erection
- KU13.** scaffolds components, their size and fixing accessories
- KU14.** how to follow a methodical scaffolding plan as per the site requirements
- KU15.** maintenance of erected scaffold and safe dismantling of scaffolds while working at heights
- KU16.** various types of scaffold used in confined area
- KU17.** 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
- KU18.** importance of safety in case of erection of scaffold in large openings
- KU19.** selection and use of various lifting devices
- KU20.** check and sort out all the related scaffolding components
- KU21.** identify and replace any damaged components
- KU22.** how to check and ensure alignment of scaffold



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- KU23.** knowledge and understanding about loading
- KU24.** how to respond in case of heavy rain, storm, lightening
- KU25.** importance of getting scaffold checked by inspector

Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** write in one or more language, preferably in the local language of the site & basic English
- GS2.** provide clear and simple instructions, details & sketches to sub-ordinate
- GS3.** read one or more language, preferably the local language at the site
- GS4.** read sketches, drawing or instructions provided for the scaffolding work
- GS5.** read various, sign boards, safety rules and safety tags , instructions related to exit routes during emergency at the workplace
- GS6.** speak in one or more language, preferably in the local language of the site
- GS7.** orally and effectively communicate about sketches, drawing or instructions provided for the scaffolding work
- GS8.** speak and convey about various, sign boards, safety rules and safety tags , instructions related to exit routes during emergency at the workplace
- GS9.** decide whether the work place is safe for working and also relevant task is not creating hazardous condition for others
- GS10.** decide on manpower, tools , material and equipment for relevant work
- GS11.** decide on the method for erection and dismantle of scaffold for complex structure and at complex location
- GS12.** plan work & organize required resource in coordination with team members and superior
- GS13.** perform work as per agreed time schedule and quality
- GS14.** rectify any problem in related to erection of scaffold for complex structure such as high rise structure, complex architectural structural
- GS15.** rectify any problem in related to erection of scaffold in confines areas or in openings
- GS16.** resolve concerns raised by the scaffolding gang
- GS17.** resolve any conflict within the team
- GS18.** correlate the sequence of fixing of scaffolding with respect to other proceeding activity of other trade
- GS19.** optimize resources
- GS20.** minimize wastages
- GS21.** evaluate the complexity of the task and seek assistance and support wherever required
- GS22.** identify violation of any safety norms which may lead to accidents



Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Erect system scaffold for complex structure and at complex location (High rise structure, complex architectural structures, confined area and in large opening)</i>	15	35	-	-
PC1. check and ensure that area on ground has been provided with rigid barricading to ensure safety	-	2	-	-
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	1	2	-	-
PC3. close all opening in case of erection of scaffold in lift area	1	2	-	-
PC4. check compactness of ground by visual / physical check	1	1	-	-
PC5. place base plates and sole boards on ground as per marking	1	1	-	-
PC6. select scaffold (pipe & coupler or frame scaffold) on the basis of need and requirement	1	3	-	-
PC7. use right components and follow erection procedure as per work method statement with respect to the types of scaffolds	1	3	-	-
PC8. erect separate scaffolds with platforms of same height (for large radius curves)	1	4	-	-
PC9. check verticality of scaffold at first level of erection and correct (if required) before moving to the next level	1	1	-	-
PC10. ensure correct method in case erection of scaffold in confined area or in large opening	1	2	-	-
PC11. ensure shifting of scaffold material from ground level to the desired level manually or by using mechanical devices in a safe manner	1	2	-	-
PC12. check rigidity and stability of scaffold	-	2	-	-



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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC13. provide adequate support to the scaffold erected as per standard practice	1	3	-	-
PC14. provide and ensure support at every 6 m from permanent structure for high rise structure scaffold	-	2	-	-
PC15. ensure height of scaffold erected is within permissible limits and as per instruction	1	1	-	-
PC16. fix walk boards, guard rail, toe boards and other components on the walking platform	1	1	-	-
PC17. complete work within the allocated time with quality and safety	1	2	-	-
PC18. report to superior for completion of work & for checking of scaffold, do any rework as suggested by engineer in charge or superior, and get it approved	1	1	-	-
<i>Dismantle scaffolds for complex structure and at complex location in a safe manner</i>	15	35	-	-
PC19. follow and ensure standards procedure are followed for dismantling of scaffold	6	14	-	-
PC20. check for rigidity and stability of scaffold before dismantling and maintain during dismantling	3	5	-	-
PC21. remove guard rails, toe boards, walk boards and other components sequentially	1	3	-	-
PC22. ensure scaffolds are dismantle using proper tools & tackles	1	3	-	-
PC23. lower scaffold material in a safe manner, manually or by using mechanical devices	2	2	-	-
PC24. ensure that all the fixtures and small components are staked properly for further use	1	4	-	-
PC25. clean and store scaffold components for further use	1	4	-	-
NOS Total	30	70	-	-



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National Occupational Standards (NOS) Parameters

NOS Code	CON/N0359
NOS Name	Erect and dismantle scaffolds for complex structure and at complex location
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Scaffolding
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	23/05/2015
Next Review Date	31/03/2022
NSQC Clearance Date	05/08/2015



CON/N8001: 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

The scope covers the following:

- Interact and communicate effectively with co-workers, superiors and sub-ordinates across different teams
- Support co-workers, superiors and sub-ordinates within the team and across interfacing teams to ensure effective execution of assigned task

Elements and 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

Support co-workers to execute project requirements

To be competent, the user/individual on the job must be able to:

- PC7.** hand over the required material, tools tackles, equipment and work fronts timely to interfacing teams
- PC8.** work together with co-workers in a synchronized manner

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** own roles and responsibilities
- KU2.** importance of effective communication and establishing strong working
- KU3.** risks of a failure in teamwork in terms of effects on project outcomes, timelines, safety at the construction site, etc.
- KU4.** different modes of communication, and its appropriate usage
- KU5.** importance of creating healthy and cooperative work environment among the gangs of workers



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- KU6.** different activities within his work area where an interaction with other workers is required
- KU7.** applicable techniques of work, properties of materials used, tools and tackles used, safety standards that co- workers might need as per the requirement
- KU8.** importance of proper and effective communication and the expected adverse
- KU9.** importance and need of supporting co-workers facing problems for smooth

Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** write in at least one language, preferably in the local language of the site
- GS2.** read in one or more languages, preferably the local language of the site
- GS3.** read communication from team members regarding work completed, materials used, tools and tackles used, support required
- GS4.** speak in one or more languages, preferably in one of the local language of the site
- GS5.** listen and follow instructions / communication shared by superiors/ co-workers regarding team requirements or interfaces during work processes
- GS6.** orally communicate with co-workers regarding support required to complete the respective work
- GS7.** decide on what information is to be shared with co-workers within the team or from interfacing gang of workers
- GS8.** plan work and organize required resources in coordination with team members
- GS9.** complete all assigned task in coordination with team members
- GS10.** take initiative in resolving issues among co-workers or report the same to superiors
- GS11.** ensure best ways of coordination among team members
- GS12.** communicate with co-workers considering their educational / social background
- GS13.** evaluate the complexity of task and determine if any guidance is required from superiors



Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Interact and communicate in effective and conclusive manner</i>	14	34	-	-
PC1. pass on work related information/ requirement clearly to the team members	2	5	-	-
PC2. inform co-workers and superiors about any kind of deviations from work	2	5	-	-
PC3. address the problems effectively and report if required to immediate supervisor appropriately	3	7	-	-
PC4. receive instructions clearly from superiors and respond effectively on the same	2	5	-	-
PC5. communicate to team members/subordinates for appropriate work technique and method	3	7	-	-
PC6. seek clarification and advice as per the requirement and applicability	2	5	-	-
<i>Support co-workers to execute project requirements</i>	16	36	-	-
PC7. hand over the required material, tools tackles, equipment and work fronts timely to interfacing teams	8	18	-	-
PC8. work together with co-workers in a synchronized manner	8	18	-	-
NOS Total	30	70	-	-



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National Occupational Standards (NOS) Parameters

NOS Code	CON/N8001
NOS Name	Work effectively in a team to deliver desired results at the workplace
Sector	Construction
Sub-Sector	Generic
Occupation	Generic
NSQF Level	3
Credits	TBD
Version	1.1
Last Reviewed Date	23/05/2015
Next Review Date	31/03/2022
NSQC Clearance Date	21/07/2016



CON/N8002: 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

Elements and 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

To be competent, the user/individual on the job must be able to:

- 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 Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** importance of proper housekeeping
- KU2.** policies, procedures and work targets set by superiors
- KU3.** roles and responsibilities in executing the work for subordinates and self
- KU4.** standard practices of work to be adopted for assigned task
- KU5.** how to use available resources in a judicious and appropriate manner to minimize wastages or damage

Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** write in at least one language, preferably in the local language of the site
- GS2.** list out the assigned works and targets



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- GS3.** read in one or more language, preferably the local language at the site
- GS4.** read communication from co-workers, superiors and notices from other departments as per requirement of the level
- GS5.** speak in one or more language, preferably one of the local language at the site
- GS6.** listen and follow communication shared by co-workers regarding standard work processes, resources available, timelines, etc.
- GS7.** communicate effectively with co-workers and subordinates
- GS8.** decide on what sequence is to be adopted for execution of work
- GS9.** plan and organize the materials, tools, tackles and equipment required to execute the work
- GS10.** complete all assigned task with proper planning and organizing
- GS11.** arrange or seek help to arrange for material, tools and tackles in case of shortfall
- GS12.** analyze areas of work which could result in a delay of work, wastage of material or damage to tools and tackles
- GS13.** evaluate potential solutions to minimize avoidable delays and wastages at the construction site



Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Prioritize work activities to achieve desired results</i>	9	22	-	-
PC1. understand clearly the targets and timelines set by superiors	2	5	-	-
PC2. plan activities as per schedule and sequence	2	5	-	-
PC3. provide guidance to the subordinates to obtain desired outcome	3	7	-	-
PC4. plan housekeeping activities prior to and post completion of work	2	5	-	-
<i>Organize desired resources prior to commencement of work</i>	21	48	-	-
PC5. list and arrange required resources prior to commencement of work	3	7	-	-
PC6. select and employ correct tools, tackles and equipment for completion of desired work	3	7	-	-
PC7. complete the work with allocated resources	3	7	-	-
PC8. engage allocated manpower in an appropriate manner	3	6	-	-
PC9. use resources in an optimum manner to avoid any unnecessary wastage	3	6	-	-
PC10. employ tools, tackles and equipment with care to avoid damage to the same	2	5	-	-
PC11. organize work output, materials used, tools and tackles deployed	2	5	-	-
PC12. processes adopted to be in line with the specified standards and instructions	2	5	-	-
NOS Total	30	70	-	-



Qualification Pack



National Occupational Standards (NOS) Parameters

NOS Code	CON/N8002
NOS Name	Plan and organize work to meet expected outcomes
Sector	Construction
Sub-Sector	Generic
Occupation	Generic
NSQF Level	3
Credits	TBD
Version	1.0
Last Reviewed Date	23/03/2015
Next Review Date	31/03/2022
NSQC Clearance Date	19/05/2015



CON/N9001: 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

The scope covers the following:

- Follow safety norms as defined by organization
- Adopt healthy & safe work practices
- Implement good housekeeping and environment protection process and activities

Elements and 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

To be competent, the user/individual on the job must be able to:

- 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

To be competent, the user/individual on the job must be able to:

- 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

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:



Qualification Pack



- KU1.** reporting procedures in cases of breaches or hazards for site safety, accidents, and emergency situations as per guidelines
- KU2.** types of safety hazards at construction sites
- KU3.** basic ergonomic principles as per applicability
- KU4.** the procedure for responding to accidents and other emergencies at site
- KU5.** appropriate personal protective equipment to be used based on various
- KU6.** importance of handling tools, equipment and materials as per applicable
- KU7.** health and environment effect of construction materials as per
- KU8.** various environmental protection methods as per applicability
- KU9.** 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
- KU10.** how to use hazardous material, in a safe and appropriate manner as per
- KU11.** safety relevant to tools, tackles, & requirement as per applicability
- KU12.** housekeeping activities relevant to task

Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** write in at least one language, preferably in the local language of the site
- GS2.** fill safety formats for near miss, unsafe conditions and safety suggestions
- GS3.** read in one or more language, preferably in the local language of the site
- GS4.** read sign boards, notice boards relevant to safety
- GS5.** speak in one or more language, preferably in one of the local language of the site
- GS6.** listen instructions / communication shared by site EHS and superiors regarding site safety, and conducting tool box talk
- GS7.** communicate reporting of site conditions, hazards, accidents, etc.
- GS8.** not create unsafe conditions for others
- GS9.** keep the workplace clean and tidy
- GS10.** 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
- GS11.** assess and analyze areas which may affect health, safety and environment protocol on the site
- GS12.** ensure personal safety behavior
- GS13.** respond to emergency



Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Follow safety norms as defined by organization</i>	11	27	-	-
PC1. identify and report any hazards, risks or breaches in site safety to the appropriate authority	2	5	-	-
PC2. follow emergency and evacuation procedures in case of accidents, fires, natural calamities	2	5	-	-
PC3. follow recommended safe practices in handling construction materials, including chemical and hazardous material whenever applicable	3	7	-	-
PC4. participate in safety awareness programs like Tool Box Talks, safety demonstrations, mock drills, conducted at site	2	5	-	-
PC5. identify near miss , unsafe condition and unsafe act	2	5	-	-
<i>Adopt healthy & safe work practices</i>	15	33	-	-
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)	3	7	-	-
PC7. handle all required tools, tackles , materials & equipment safely	2	5	-	-
PC8. follow safe disposal of waste, harmful and hazardous materials as per EHS guidelines	2	5	-	-
PC9. install and apply properly all safety equipment as instructed	4	8	-	-
PC10. follow safety protocol and practices as laid down by site EHS department	4	8	-	-
<i>Implement good housekeeping practices</i>	4	10	-	-



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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC11. collect and deposit construction waste into identified containers before disposal, separate containers that may be needed for disposal of toxic or hazardous wastes	2	5	-	-
PC12. apply ergonomic principles wherever required	2	5	-	-
NOS Total	30	70	-	-



National Occupational Standards (NOS) Parameters

NOS Code	CON/N9001
NOS Name	Work according to personal health, safety and environment protocol at construction site
Sector	Construction
Sub-Sector	Generic
Occupation	Generic
NSQF Level	3
Credits	TBD
Version	1.2
Last Reviewed Date	23/05/2015
Next Review Date	31/03/2022
NSQC Clearance Date	21/07/2016

Assessment Guidelines and Assessment Weightage

Assessment Guidelines

- 1.Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) (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 theory part will be based on knowledge bank of questions created by the SSC.
3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/ training center based on these criteria.
5. In case of successfully passing only certain number of NOSs, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack.
6. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack

Minimum Aggregate Passing % at QP Level : 70



Qualification Pack



(Please note: Every Trainee should score a minimum aggregate passing percentage as specified above, to successfully clear the Qualification Pack assessment.)

Assessment Weightage

Compulsory NOS

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
CON/N0358.Erect and dismantle outrigger / cantilever scaffolds	30	70	-	-	100	30
CON/N0359.Erect and dismantle scaffolds for complex structure and at complex location	30	70	-	-	100	30
CON/N8001.Work effectively in a team to deliver desired results at the workplace	30	70	-	-	100	5
CON/N8002.Plan and organize work to meet expected outcomes	30	70	-	-	100	15
CON/N9001.Work according to personal health, safety and environment protocol at construction site	30	70	-	-	100	20
Total	150	350	-	-	500	100



Qualification Pack



Acronyms

NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training



Qualification Pack



Glossary

Sector	Sector is a 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 organisation.
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 (KU) they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Performance Criteria (PC)	Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.
National Occupational Standards (NOS)	NOS are occupational standards which apply uniquely in the Indian context.
Qualifications Pack (QP)	QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.
Unit Code	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'
Unit Title	Unit title gives a clear overall statement about what the incumbent should be able to do.
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.
Scope	Scope is a 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 quality of performance required.
Knowledge and Understanding (KU)	Knowledge and Understanding (KU) are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard.



Qualification Pack



Organisational Context	Organisational context includes the way the organisation 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 (GS)	Core skills or Generic Skills (GS) are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment 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.
Electives	Electives are NOS/set of NOS that are identified by the sector as contributive to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives.
Options	Options are NOS/set of NOS that are identified by the sector as additional skills. There may be multiple options within a QP. It is not mandatory to select any of the options to complete a QP with Options.