



Qualification Pack



Khalasi (Assistant Rigger)

QP Code: CON/Q0701

Version: 3.0

NSQF Level: 3

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CON/Q0701: Khalasi (Assistant Rigger)

Brief Job Description

A Khalasi (Assistant Rigger) is responsible for shifting and preparing the surface of heavy structural steel/ Reinforced Cement Concrete (RCC) precast units, laying concrete pump lines, assisting in the erection of staging for heavy RCC structures, and pile foundation by using appropriate rigging gear, hand tools at construction site. The individual works under supervision.

Personal Attributes

The individual should be physically fit to work for long durations in varying environments. The person should be able to work coordinately within a team and as per the given instructions. The individual should have appropriate verbal and written communication skills.

Applicable National Occupational Standards (NOS)

Compulsory NOS:

1. [CON/N0701: Shift RCC precast/ structural steel units at construction sites](#)
2. [CON/N0702: Prepare the surface of RCC precast units or structural steel units](#)
3. [CON/N0703: Lay and dismantle concrete pump-line](#)
4. [CON/N0704: Assist in carrying out staging for heavy RCC work](#)
5. [CON/N0705: Assist in in-situ RCC piling work](#)
6. [CON/N8001: Work effectively in a team to deliver desired results at the workplace](#)
7. [CON/N9001: Work according to personal health, safety and environment protocols at construction site](#)
8. [DGT/VSQ/N0101: Employability Skills \(30 Hours\)](#)

Qualification Pack (QP) Parameters

Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Rigging



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Country	India
NSQF Level	3
Credits	12
Aligned to NCO/ISCO/ISIC Code	NCO-2015/7215.0100
Minimum Educational Qualification & Experience	10th Class OR 8th grade pass (with 2-year of (NTC/ NAC) after 8th) OR 9th grade pass with 1 Year of experience in the relevant field OR 8th grade pass with 2 Years of experience in the relevant field OR 5th grade pass with 5 Years of experience in the relevant field OR Previous relevant Qualification of NSQF Level (2) with 3 Years of experience in the relevant field OR Previous relevant Qualification of NSQF Level (2.5 with 1.5 Years of experience in the relevant field)
Minimum Level of Education for Training in School	10th Class
Pre-Requisite License or Training	NIL
Minimum Job Entry Age	18 Years
Last Reviewed On	NA
Next Review Date	31/08/2026
NSQC Approval Date	31/08/2023
Version	3.0
Reference code on NQR	QG-03-CO-00810-2023-V2-CSDCI
NQR Version	1



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CON/N0701: Shift RCC precast/ structural steel units at construction sites

Description

This unit is about shifting RCC Precast / Structural Steel units at construction sites

Scope

The scope covers the following :

- Select the appropriate rigging gear, hand tools and PPEs
- Prepare for lifting operations
- Shift RCC precast units or steel components

Elements and Performance Criteria

Select the appropriate rigging gear, hand tools and PPEs

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

- PC1.** select the appropriate hand tools, rigging gear and Personal Protection Equipment (PPE) for lifting and shifting heavy material at construction sites
- PC2.** check the hand tools, rigging gear and PPE for their usability and perform basic repair and maintenance, as appropriate
- PC3.** identify the faults requiring expert assistance and coordinate with the supervisor to resolve them
- PC4.** identify and store the faulty rigging gear separately as per the given instructions

Prepare for lifting operations

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

- PC5.** identify and remove obstructions from the lifting equipment operation area, and report conditions that are unsafe for material lifting and shifting
- PC6.** check the suitability of loading and unloading area to ensure safe loading and unloading of heavy loads
- PC7.** prepare the loads for lifting as per the supervisor's instructions
- PC8.** assist in the use of earth moving equipment or compactors to prepare the base for heavy lifting equipment

Shift RCC precast units or steel components

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

- PC9.** assist in checking and ensuring the presence of safety signage, illumination, barricading at the route of material shifting as per the agreed work plan
- PC10.** place the prescribed supports, frames, blocking and cushioning on the deck of transporting vehicle as per instructions to prevent damage to the units during transit
- PC11.** anchor units to the appropriate locations and hook up with the prescribed lifting equipment by using slings, shackles, ropes or lifting hooks, and secure to prevent slipping or deflection
- PC12.** assist in loading precast or structural steel units in the transporting vehicle as per the supervisor's instructions



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- PC13.** assist in controlling the position of suspended loads during shifting by using tag lines and relevant equipment
- PC14.** assist in offloading units from vehicle to ground at the point of heavy lifting
- PC15.** place suitable materials, such as wooden sleepers and stools on the base as per the given instruction to create ground clearance for the materials and provision for further lifting
- PC16.** assist in placing and de-slinging material on the sleepers safely as per the given instructions

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** standard procedure for construction rigging work
- KU2.** the applicable safety regulations concerning construction rigging
- KU3.** the importance of personal protection and the use of relevant safety gear and equipment
- KU4.** the safe working methods and movements while performing rigging activities
- KU5.** the process of shifting and stacking heavy structural members
- KU6.** different units of linear measurement
- KU7.** the selection and use of rigging gears and tools, such as pulley, chain block, slings, heavy lifting chains, shackles, hooks, ropes, etc
- KU8.** how to interpret signage during erection procedures
- KU9.** the procedures for attaching slings to load directly or using lifting gears
- KU10.** the hand signals used for load lifting operations
- KU11.** the dos and don'ts for carrying out rigging operations at construction sites
- KU12.** the importance of barricading the lifting area and maintaining appropriate distance from the load
- KU13.** the safe posture of load lifting equipment while lifting load

Generic Skills (GS)

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

- GS1.** maintain the appropriate data and records
- GS2.** read the appropriate reports and literature concerning the field of work
- GS3.** communicate professionally with all the stakeholders
- GS4.** listen attentively to understand the information/ instructions being shared and take appropriate action
- GS5.** coordinate with the co-workers to achieve the work objectives
- GS6.** plan and execute tasks based on priority
- GS7.** identify possible disruptions to work and take appropriate mitigation measures
- GS8.** take prompt action to deal with workplace emergencies and accidents
- GS9.** evaluate all possible solutions to work-related problems and select the best one
- GS10.** follow the recommended practices for the timely completion of work and achievement of organizational objectives



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Select the appropriate rigging gear, hand tools and PPEs</i>	9	25	-	4
PC1. select the appropriate hand tools, rigging gear and Personal Protection Equipment (PPE) for lifting and shifting heavy material at construction sites	-	-	-	-
PC2. check the hand tools, rigging gear and PPE for their usability and perform basic repair and maintenance, as appropriate	-	-	-	-
PC3. identify the faults requiring expert assistance and coordinate with the supervisor to resolve them	-	-	-	-
PC4. identify and store the faulty rigging gear separately as per the given instructions	-	-	-	-
<i>Prepare for lifting operations</i>	10	20	-	3
PC5. identify and remove obstructions from the lifting equipment operation area, and report conditions that are unsafe for material lifting and shifting	-	-	-	-
PC6. check the suitability of loading and unloading area to ensure safe loading and unloading of heavy loads	-	-	-	-
PC7. prepare the loads for lifting as per the supervisor's instructions	-	-	-	-
PC8. assist in the use of earth moving equipment or compactors to prepare the base for heavy lifting equipment	-	-	-	-
<i>Shift RCC precast units or steel components</i>	11	15	-	3
PC9. assist in checking and ensuring the presence of safety signage, illumination, barricading at the route of material shifting as per the agreed work plan	-	-	-	-



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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC10. place the prescribed supports, frames, blocking and cushioning on the deck of transporting vehicle as per instructions to prevent damage to the units during transit	-	-	-	-
PC11. anchor units to the appropriate locations and hook up with the prescribed lifting equipment by using slings, shackles, ropes or lifting hooks, and secure to prevent slipping or deflection	-	-	-	-
PC12. assist in loading precast or structural steel units in the transporting vehicle as per the supervisor's instructions	-	-	-	-
PC13. assist in controlling the position of suspended loads during shifting by using tag lines and relevant equipment	-	-	-	-
PC14. assist in offloading units from vehicle to ground at the point of heavy lifting	-	-	-	-
PC15. place suitable materials, such as wooden sleepers and stools on the base as per the given instruction to create ground clearance for the materials and provision for further lifting	-	-	-	-
PC16. assist in placing and de-slinging material on the sleepers safely as per the given instructions	-	-	-	-
NOS Total	30	60	-	10



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National Occupational Standards (NOS) Parameters

NOS Code	CON/N0701
NOS Name	Shift RCC precast/ structural steel units at construction sites
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Rigging
NSQF Level	3.0
Credits	2
Version	3.0
Last Reviewed Date	31/08/2023
Next Review Date	31/08/2026
NSQC Clearance Date	31/08/2023



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CON/N0702: Prepare the surface of RCC precast units or structural steel units

Description

This unit is about preparing the surface of RCC precast units or structural steel units before erection

Scope

The scope covers the following :

- Carry out abrasive blasting to structural steel and precast RCC sections
- Carry out epoxy gluing in segmental RCC precast construction work

Elements and Performance Criteria

Carry out abrasive blasting to structural steel and precast RCC sections

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

- PC1.** check the surroundings as per the given instructions to ensure safe conditions for sandblasting and assist in erecting appropriate protection, as required
- PC2.** adjust the air compressor and sandblaster gauges to the correct or desired pressure, as instructed
- PC3.** connect the compressor and blasting equipment safely before undertaking the blasting activity
- PC4.** carry out sandblasting as per the given instructions and clean the unwanted substances from the RCC or metal surface

Carry out epoxy gluing in segmental RCC precast construction work

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

- PC5.** clean dust, laitance, unwanted articles from the joints between RCC precast components where gluing is to be done
- PC6.** prepare glue-mix following the given instructions
- PC7.** apply glue to the concrete surface as per the specification or instructions using the suitable means of application

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** the procedure of handling sand blasting gun
- KU2.** different abrasives used in sandblasting and their physical properties
- KU3.** the use of relevant PPE, such as protective jacket, ear plugs, goggles, gloves during sandblasting work
- KU4.** the procedure for carrying out sandblasting and wire brushing
- KU5.** the properties of epoxy bonding agent
- KU6.** the appropriate temperature for the application of epoxy bonding agent



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KU7. the process of applying epoxy bonding agent

Generic Skills (GS)

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

- GS1.** maintain the appropriate data and records
- GS2.** read the appropriate reports and literature concerning the field of work
- GS3.** communicate professionally with all the stakeholders
- GS4.** listen attentively to understand the information/ instructions being shared and take appropriate action
- GS5.** coordinate with the co-workers to achieve the work objectives
- GS6.** plan and execute tasks based on priority
- GS7.** identify possible disruptions to work and take appropriate mitigation measures
- GS8.** take prompt action to deal with workplace emergencies and accidents
- GS9.** evaluate all possible solutions to work-related problems and select the best one
- GS10.** follow the recommended practices for the timely completion of work and achievement of organizational objectives



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Carry out abrasive blasting to structural steel and precast RCC sections</i>	15	30	-	6
PC1. check the surroundings as per the given instructions to ensure safe conditions for sandblasting and assist in erecting appropriate protection, as required	-	-	-	-
PC2. adjust the air compressor and sandblaster gauges to the correct or desired pressure, as instructed	-	-	-	-
PC3. connect the compressor and blasting equipment safely before undertaking the blasting activity	-	-	-	-
PC4. carry out sandblasting as per the given instructions and clean the unwanted substances from the RCC or metal surface	-	-	-	-
<i>Carry out epoxy gluing in segmental RCC precast construction work</i>	15	30	-	4
PC5. clean dust, laitance, unwanted articles from the joints between RCC precast components where gluing is to be done	-	-	-	-
PC6. prepare glue-mix following the given instructions	-	-	-	-
PC7. apply glue to the concrete surface as per the specification or instructions using the suitable means of application	-	-	-	-
NOS Total	30	60	-	10



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National Occupational Standards (NOS) Parameters

NOS Code	CON/N0702
NOS Name	Prepare the surface of RCC precast units or structural steel units
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Rigging
NSQF Level	3.0
Credits	2
Version	3.0
Last Reviewed Date	31/08/2023
Next Review Date	31/08/2026
NSQC Clearance Date	31/08/2023



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CON/N0703: Lay and dismantle concrete pump-line

Description

This unit describes the skills and knowledge required to lay and dismantle pump-line for concreting

Scope

The scope covers the following :

- Shift, stack and clean pipe segments
- Lay, join and dismantle concrete pump-line

Elements and Performance Criteria

Shift, stack and clean pipe segments

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

- PC1.** conduct appropriate checks on pipe segments for their usability
- PC2.** shift and stack pipe segments at the appropriate location as per the given instructions
- PC3.** select and shift clamps and required hand tools to the work location as per instructions
- PC4.** clean the pipe segments before and during the concreting work as per the requirement

Lay, join and dismantle concrete pump-line

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

- PC5.** join pipe segments using appropriate clamps, turnbuckles, hand tools and supporting tools under supervision
- PC6.** construct working platforms at appropriate intervals for the maintenance of pump line
- PC7.** assist in lifting pipe segments at the required heights using rigging tools as per the work requirement
- PC8.** carry out ramming of external pipes to check continuity of flow of concrete during concreting work as per instructions
- PC9.** align pipelines providing required support at the identified locations to provide stability and water tightness
- PC10.** use standard bent pipes as per the instruction to ensure desired flow of concrete in the pipeline
- PC11.** join, cut, clean and realign pump lines according to the concreting work needs and the given instructions
- PC12.** dismantle and lower pump line safely, using the appropriate tool

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** the selection and use of common lifting tools and tackles, e.g. pulley, chain block, slings, shackles, hooks, ropes, hammers etc
- KU2.** the standard procedure of laying and aligning concrete pump line



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- KU3.** how to clean concrete from pipe segments without damaging the same
- KU4.** the use of standard bent pipes
- KU5.** how to use clamps, safety chains, wire strops, anchor brackets, etc. to secure the concrete pipeline

Generic Skills (GS)

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

- GS1.** maintain the appropriate data and records
- GS2.** read the appropriate reports and literature concerning the field of work
- GS3.** communicate professionally with all the stakeholders
- GS4.** listen attentively to understand the information/ instructions being shared and take appropriate action
- GS5.** coordinate with the co-workers to achieve the work objectives
- GS6.** plan and execute tasks based on priority
- GS7.** identify possible disruptions to work and take appropriate mitigation measures
- GS8.** take prompt action to deal with workplace emergencies and accidents
- GS9.** evaluate all possible solutions to work-related problems and select the best one
- GS10.** follow the recommended practices for the timely completion of work and achievement of organizational objectives



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Shift, stack and clean pipe segments</i>	16	29	-	4
PC1. conduct appropriate checks on pipe segments for their usability	-	-	-	-
PC2. shift and stack pipe segments at the appropriate location as per the given instructions	-	-	-	-
PC3. select and shift clamps and required hand tools to the work location as per instructions	-	-	-	-
PC4. clean the pipe segments before and during the concreting work as per the requirement	-	-	-	-
<i>Lay, join and dismantle concrete pump-line</i>	14	31	-	6
PC5. join pipe segments using appropriate clamps, turnbuckles, hand tools and supporting tools under supervision	-	-	-	-
PC6. construct working platforms at appropriate intervals for the maintenance of pump line	-	-	-	-
PC7. assist in lifting pipe segments at the required heights using rigging tools as per the work requirement	-	-	-	-
PC8. carry out ramming of external pipes to check continuity of flow of concrete during concreting work as per instructions	-	-	-	-
PC9. align pipelines providing required support at the identified locations to provide stability and water tightness	-	-	-	-
PC10. use standard bent pipes as per the instruction to ensure desired flow of concrete in the pipeline	-	-	-	-
PC11. join, cut, clean and realign pump lines according to the concreting work needs and the given instructions	-	-	-	-
PC12. dismantle and lower pump line safely, using the appropriate tool	-	-	-	-



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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
NOS Total	30	60	-	10



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National Occupational Standards (NOS) Parameters

NOS Code	CON/N0703
NOS Name	Lay and dismantle concrete pump-line
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Rigging
NSQF Level	3.0
Credits	2
Version	3.0
Last Reviewed Date	31/08/2023
Next Review Date	31/08/2026
NSQC Clearance Date	31/08/2023



Qualification Pack

CON/N0704: Assist in carrying out staging for heavy RCC work

Description

This unit is about assisting in carrying out staging for heavy RCC work

Scope

The scope covers the following :

- Handle staging components
- Assist in erection and dismantling of staging

Elements and Performance Criteria

Handle staging components

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

- PC1.** select appropriate staging components, such as trestles, heavy duty H- frames, acrowspans, base jacks, clamps etc., as instructed
- PC2.** check the staging components visually to ensure their physical condition is safe for working
- PC3.** shift and stack required staging materials, chain pulleys, ropes, hooks, shackles required for erecting staging to the work location as directed

Assist in erection and dismantling of staging

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

- PC4.** check for the compaction/ rigidity and level of scaffolding's base
- PC5.** assist in erecting vertical and bracing components at the specified intervals as per instructions
- PC6.** assist in lifting staging components at the required locations using appropriate tools and tackles, such as chain hoist, pulley, hooks, etc
- PC7.** install supports at the appropriate locations using suitable formwork component as per direction
- PC8.** follow appropriate housekeeping practices to ensure health and safety the work site

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** the use and name of hand tools and rigging gear commonly used for staging work, such as hammer, pulley, rope, spanner etc
- KU2.** the components required for staging work for heavy RCC structure, trestles, H-frames, acrowspans, base jacks, timber, clamps, MS channels, etc
- KU3.** the standard procedure of lifting heavy components using rigging tools and tackles
- KU4.** the standard procedure of shifting, storing and stacking staging materials at the worksite

Generic Skills (GS)



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

- GS1.** maintain the appropriate data and records
- GS2.** read the appropriate reports and literature concerning the field of work
- GS3.** communicate professionally with all the stakeholders
- GS4.** listen attentively to understand the information/ instructions being shared and take appropriate action
- GS5.** coordinate with the co-workers to achieve the work objectives
- GS6.** plan and execute tasks based on priority
- GS7.** identify possible disruptions to work and take appropriate mitigation measures
- GS8.** take prompt action to deal with workplace emergencies and accidents
- GS9.** evaluate all possible solutions to work-related problems and select the best one
- GS10.** follow the recommended practices for the timely completion of work and achievement of organizational objectives



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Handle staging components</i>	17	28	-	4
PC1. select appropriate staging components, such as trestles, heavy duty H- frames, acrowspans, base jacks, clamps etc., as instructed	-	-	-	-
PC2. check the staging components visually to ensure their physical condition is safe for working	-	-	-	-
PC3. shift and stack required staging materials, chain pulleys, ropes, hooks, shackles required for erecting staging to the work location as directed	-	-	-	-
<i>Assist in erection and dismantling of staging</i>	13	32	-	6
PC4. check for the compaction/ rigidity and level of scaffolding's base	-	-	-	-
PC5. assist in erecting vertical and bracing components at the specified intervals as per instructions	-	-	-	-
PC6. assist in lifting staging components at the required locations using appropriate tools and tackles, such as chain hoist, pulley, hooks, etc	-	-	-	-
PC7. install supports at the appropriate locations using suitable formwork component as per direction	-	-	-	-
PC8. follow appropriate housekeeping practices to ensure health and safety the work site	-	-	-	-
NOS Total	30	60	-	10



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National Occupational Standards (NOS) Parameters

NOS Code	CON/N0704
NOS Name	Assist in carrying out staging for heavy RCC work
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Rigging
NSQF Level	3.0
Credits	1
Version	3.0
Last Reviewed Date	31/08/2023
Next Review Date	31/08/2026
NSQC Clearance Date	31/08/2023



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CON/N0705: Assist in in-situ RCC piling work

Description

This unit describes the skills and knowledge required to assist in in-situ RCC piling work

Scope

The scope covers the following :

- Carry out preparatory activities
- Assist in piling work

Elements and Performance Criteria

Carry out preparatory activities

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

- PC1.** shift and stack tools and accessories required for piling work at the specified work location as per the given instructions
- PC2.** assist in erecting piling tripod at the appropriate positions
- PC3.** assist in establishing winch, pumps and pipelines required for piling operation at the specified locations
- PC4.** erect barricading and safety signage at the work location as per instruction
- PC5.** clean the piling tools and accessories before and after the concreting work

Assist in piling work

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

- PC6.** apply bentonite to the earth-pit as per the requirement and instructions
- PC7.** clean sludge and muck generated from the boreholes and dispose them of the designated location
- PC8.** carry out cleaning and greasing of concreting tremie pipe, funnel and other accessories as required
- PC9.** assist in shifting and lowering reinforcement cage into the bored hole of the pile before concreting
- PC10.** carry out manual earthwork according to the work requirement/ instructions

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** the tools used for piling work, such as tripod, funnel, auger chisel, tremie, etc
- KU2.** the use of lifting tools and equipment in bore hole piling work, such as pulley, chain block, winch machine, wire rope, etc
- KU3.** how to operate tremie pipes during manual boring and concreting work
- KU4.** how to erect tripod and its accessories



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- KU5.** the use of bentonite in piling work and its physical properties
- KU6.** the process of cleaning muck and debris from earth pit
- KU7.** the signage requirements at a piling site

Generic Skills (GS)

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

- GS1.** maintain the appropriate data and records
- GS2.** read the appropriate reports and literature concerning the field of work
- GS3.** communicate professionally with all the stakeholders
- GS4.** listen attentively to understand the information/ instructions being shared and take appropriate action
- GS5.** coordinate with the co-workers to achieve the work objectives
- GS6.** plan and execute tasks based on priority
- GS7.** identify possible disruptions to work and take appropriate mitigation measures
- GS8.** take prompt action to deal with workplace emergencies and accidents
- GS9.** evaluate all possible solutions to work-related problems and select the best one
- GS10.** follow the recommended practices for the timely completion of work and achievement of organizational objectives



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Carry out preparatory activities</i>	12	26	-	4
PC1. shift and stack tools and accessories required for piling work at the specified work location as per the given instructions	-	-	-	-
PC2. assist in erecting piling tripod at the appropriate positions	-	-	-	-
PC3. assist in establishing winch, pumps and pipelines required for piling operation at the specified locations	-	-	-	-
PC4. erect barricading and safety signage at the work location as per instruction	-	-	-	-
PC5. clean the piling tools and accessories before and after the concreting work	-	-	-	-
<i>Assist in piling work</i>	18	34	-	6
PC6. apply bentonite to the earth-pit as per the requirement and instructions	-	-	-	-
PC7. clean sludge and muck generated from the boreholes and dispose them of the designated location	-	-	-	-
PC8. carry out cleaning and greasing of concreting tremie pipe, funnel and other accessories as required	-	-	-	-
PC9. assist in shifting and lowering reinforcement cage into the bored hole of the pile before concreting	-	-	-	-
PC10. carry out manual earthwork according to the work requirement/ instructions	-	-	-	-
NOS Total	30	60	-	10



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National Occupational Standards (NOS) Parameters

NOS Code	CON/N0705
NOS Name	Assist in in-situ RCC piling work
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Rigging
NSQF Level	3.0
Credits	2
Version	3.0
Last Reviewed Date	31/08/2023
Next Review Date	31/08/2026
NSQC Clearance Date	31/08/2023



Qualification Pack

DGT/VSQ/N0101: Employability Skills (30 Hours)

Description

This unit is about employability skills, Constitutional values, becoming a professional in the 21st Century, digital, financial, and legal literacy, diversity and Inclusion, English and communication skills, customer service, entrepreneurship, and apprenticeship, getting ready for jobs and career development.

Scope

The scope covers the following :

- Introduction to Employability Skills
- Constitutional values - Citizenship
- Becoming a Professional in the 21st Century
- Basic English Skills
- Communication Skills
- Diversity & Inclusion
- Financial and Legal Literacy
- Essential Digital Skills
- Entrepreneurship
- Customer Service
- Getting ready for Apprenticeship & Jobs

Elements and Performance Criteria

Introduction to Employability Skills

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

PC1. understand the significance of employability skills in meeting the job requirements

Constitutional values – Citizenship

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

PC2. identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices

Becoming a Professional in the 21st Century

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

PC3. explain 21st Century Skills such as Self-Awareness, Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc.

Basic English Skills

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

PC4. speak with others using some basic English phrases or sentences

Communication Skills

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

PC5. follow good manners while communicating with others

PC6. work with others in a team



Qualification Pack

Diversity & Inclusion

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

PC7. communicate and behave appropriately with all genders and PwD

PC8. report any issues related to sexual harassment

Financial and Legal Literacy

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

PC9. use various financial products and services safely and securely

PC10. calculate income, expenses, savings etc.

PC11. approach the concerned authorities for any exploitation as per legal rights and laws

Essential Digital Skills

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

PC12. operate digital devices and use its features and applications securely and safely

PC13. use internet and social media platforms securely and safely

Entrepreneurship

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

PC14. identify and assess opportunities for potential business

PC15. identify sources for arranging money and associated financial and legal challenges

Customer Service

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

PC16. identify different types of customers

PC17. identify customer needs and address them appropriately

PC18. follow appropriate hygiene and grooming standards

Getting ready for apprenticeship & Jobs

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

PC19. create a basic biodata

PC20. search for suitable jobs and apply

PC21. identify and register apprenticeship opportunities as per requirement

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. need for employability skills

KU2. various constitutional and personal values

KU3. different environmentally sustainable practices and their importance

KU4. Twenty first (21st) century skills and their importance

KU5. how to use basic spoken English language

KU6. Do and dont of effective communication

KU7. inclusivity and its importance

KU8. different types of disabilities and appropriate communication and behaviour towards PwD

KU9. different types of financial products and services



Qualification Pack

- KU10.** how to compute income and expenses
- KU11.** importance of maintaining safety and security in financial transactions
- KU12.** different legal rights and laws
- KU13.** how to operate digital devices and applications safely and securely
- KU14.** ways to identify business opportunities
- KU15.** types of customers and their needs
- KU16.** how to apply for a job and prepare for an interview
- KU17.** apprenticeship scheme and the process of registering on apprenticeship portal

Generic Skills (GS)

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

- GS1.** communicate effectively using appropriate language
- GS2.** behave politely and appropriately with all
- GS3.** perform basic calculations
- GS4.** solve problems effectively
- GS5.** be careful and attentive at work
- GS6.** use time effectively
- GS7.** maintain hygiene and sanitisation to avoid infection



Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Introduction to Employability Skills</i>	1	1	-	-
PC1. understand the significance of employability skills in meeting the job requirements	-	-	-	-
<i>Constitutional values – Citizenship</i>	1	1	-	-
PC2. identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices	-	-	-	-
<i>Becoming a Professional in the 21st Century</i>	1	3	-	-
PC3. explain 21st Century Skills such as Self-Awareness, Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc.	-	-	-	-
<i>Basic English Skills</i>	2	3	-	-
PC4. speak with others using some basic English phrases or sentences	-	-	-	-
<i>Communication Skills</i>	1	1	-	-
PC5. follow good manners while communicating with others	-	-	-	-
PC6. work with others in a team	-	-	-	-
<i>Diversity & Inclusion</i>	1	1	-	-
PC7. communicate and behave appropriately with all genders and PwD	-	-	-	-
PC8. report any issues related to sexual harassment	-	-	-	-
<i>Financial and Legal Literacy</i>	3	4	-	-
PC9. use various financial products and services safely and securely	-	-	-	-



Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC10. calculate income, expenses, savings etc.	-	-	-	-
PC11. approach the concerned authorities for any exploitation as per legal rights and laws	-	-	-	-
<i>Essential Digital Skills</i>	4	6	-	-
PC12. operate digital devices and use its features and applications securely and safely	-	-	-	-
PC13. use internet and social media platforms securely and safely	-	-	-	-
<i>Entrepreneurship</i>	3	5	-	-
PC14. identify and assess opportunities for potential business	-	-	-	-
PC15. identify sources for arranging money and associated financial and legal challenges	-	-	-	-
<i>Customer Service</i>	2	2	-	-
PC16. identify different types of customers	-	-	-	-
PC17. identify customer needs and address them appropriately	-	-	-	-
PC18. follow appropriate hygiene and grooming standards	-	-	-	-
<i>Getting ready for apprenticeship & Jobs</i>	1	3	-	-
PC19. create a basic biodata	-	-	-	-
PC20. search for suitable jobs and apply	-	-	-	-
PC21. identify and register apprenticeship opportunities as per requirement	-	-	-	-
NOS Total	20	30	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	DGT/VSQ/N0101
NOS Name	Employability Skills (30 Hours)
Sector	Cross Sectoral
Sub-Sector	Professional Skills
Occupation	Employability
NSQF Level	2
Credits	1
Version	1.0
Last Reviewed Date	08/05/2025
Next Review Date	08/05/2028
NSQC Clearance Date	08/05/2025

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) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
2. The assessment for the knowledge part will be based on knowledge bank of questions created by Assessment Bodies subject to approval by SSC.
3. Individual assessment agencies will create unique question papers for knowledge/theory part for assessment of candidates as per assessment criteria given below.
4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on assessment criteria.
5. The passing percentage for each QP will be 50%. To pass the Qualification Pack, every trainee should score a minimum of 50% individually in each NOS.
6. The Assessor shall check the final outcome of the practices while evaluating the steps performed to achieve the final outcome.



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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 iterations 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 time frame set by SSC.
10. Minimum duration of Assessment of each QP shall be of 4hrs/trainee.

Minimum Aggregate Passing % at QP Level : 50

(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/N0701.Shift RCC precast/ structural steel units at construction sites	30	60	0	10	100	20
CON/N0702.Prepare the surface of RCC precast units or structural steel units	30	60	0	10	100	20
CON/N0703.Lay and dismantle concrete pump-line	30	60	0	10	100	15
CON/N0704.Assist in carrying out staging for heavy RCC work	30	60	0	10	100	15
CON/N0705.Assist in in-situ RCC piling work	30	60	0	10	100	15
CON/N8001.Work effectively in a team to deliver desired results at the workplace	30	70	0	0	100	5



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National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
CON/N9001.Work according to personal health, safety and environment protocols at construction site	30	70	0	0	100	5
DGT/VSQ/N0101.Employability Skills (30 Hours)	20	30	-	-	50	5
Total	230	470	0	50	750	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.



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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.
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.