

# QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR CONSTRUCTION INDUSTRY

## What are Occupational Standards(OS)?

- OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

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## Introduction

### Qualifications Pack – Khalasi (Assistant Rigger)

**SECTOR:** CONSTRUCTION

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

**OCCUPATION:** RIGGING

**REFERENCE ID:** CON/Q0701

**ALIGNED TO:** NCO-2004/7215.10

This job role provides support in handling of heavy material, staging works for RCC structures and pile foundation works at construction sites

**Brief Job Description:** The job role is responsible for shifting, preparing surface of heavy structural steel/ RCC precast units, laying concrete pump lines, assisting in erection of staging for heavy RCC structures and pile foundation works by using appropriate rigging gears, hand tools and PPEs at construction or erection site.

**Personal Attributes:** The individual is expected to be physically fit and should be able to work across various locations in extreme weather/site conditions. The job holder should preferably be physically sound, free from vertigo problem, cardiovascular diseases as the nature of work involves handling heavy loads and sometimes working at height.



Job Details	<b>Qualifications Pack Code</b>	CON/Q0701		
	<b>Job Role</b>	Khalasi (Assistant Rigger)		
	<b>Credits (NSQF)</b>	TBD	<b>Version number</b>	2.0
	<b>Sector</b>	Construction	<b>Drafted on</b>	07/06/2015
	<b>Sub-sector</b>	Real Estate and Infrastructure Construction	<b>Last reviewed on</b>	24/07/2019
	<b>Occupation</b>	Rigging	<b>Next review date</b>	24/07/2023
	<b>NSQC Clearance on</b>	22/08/2019		

Job Role	Khalasi (Assistant Rigger)
<b>Role Description</b>	The job role is responsible for shifting, preparing surface of heavy structural steel/ RCC precast units, laying concrete pump lines, assisting in erection of staging for heavy RCC structures and pile foundation works by using appropriate rigging gears, hand tools and PPEs under close supervision.
<b>NSQF level</b>	3
<b>Minimum Educational Qualifications</b>	5 <sup>th</sup> standard
<b>Maximum Educational Qualifications</b>	Not Applicable
<b>Prerequisite License or Training</b>	NIL
<b>Minimum Job Entry Age</b>	18 years
<b>Experience</b>	Non trained worker: 2 years site experience in same occupation Trained worker: 1 year site experience as a certified Helper Shuttering Carpenter/Helper Bar Bender and steel fixer/Helper Fabrication
<b>Applicable National Occupational Standards (NOS)</b>	<p><b>Compulsory:</b></p> <ol style="list-style-type: none"> <li><a href="#">CON/N0701:Shift RCC Precast / Structural Steel units at construction site</a></li> <li><a href="#">CON/N0702:Prepare surface of RCC Precast units or structural steel units prior to erection</a></li> <li><a href="#">CON/N0703: Lay and dismantle pump-line for concreting</a></li> <li><a href="#">CON/N0704:Assist in carrying out staging for heavy RCC work</a></li> <li><a href="#">CON/N0705:Assist in In-situ RCC piling works</a></li> <li><a href="#">CON/N8001: Work effectively in a team to deliver results at a construction site</a></li> <li><a href="#">CON/N9001: Work according to personal health, safety and environment protocol at construction site</a></li> </ol> <p><b>Optional:</b> N.A.</p>
<b>Performance Criteria</b>	As described in the relevant OS units

**Definitions**

Keywords / Terms	Description
Sector	Sector is conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-Sector	Sub-Sector is derived from a further breakdown based on the characteristics and interests of its components
Occupation	Occupation is a set of job roles, which perform similar/related set of functions in an industry
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organization.
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the knowledge and understanding they need to meet the standard consistently. Occupational Standards are applicable both in the Indian contexts.
Performance Criteria	Performance Criteria are statements that together specify the standard of performance required when carrying out a task.
Qualifications Pack (QP)	Qualifications Pack comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A Qualification Pack is assigned a unique qualification pack code
Qualification Pack Code	Qualification Pack Code is a unique reference code that identifies a qualifications pack.
National Occupational Standards (NOS)	NOS are Occupational Standards which apply uniquely in the Indian context.
Scope	Scope is the set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on the quality of performance required.
Knowledge and Understanding	Knowledge and Understanding are statements which together specify the technical, generic, professional and organizational specific knowledge that an individual needs in order to perform to the required standard
Organizational Context	Organizational Context includes the way the organization is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Core Skills / Generic Skills	Core Skills or Generic Skills are a group of skills that are key to learning and working in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.

**Acronyms**

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

CON/N0701

Shift RCC Precast / Structural Steel units at construction site

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# National Occupational Standard



## Overview

This NOS covers the skills and knowledge required by a workman to be proficient in shifting RCC Precast / Structural Steel units at construction site.

CON/N0701

**Shift RCC Precast / Structural Steel units at construction site**

National Occupational Standard

<b>Unit Code</b>	CON/N0701
<b>Unit Title (Task)</b>	Shift RCC Precast / Structural Steel units at construction site
<b>Description</b>	This unit describes the skills and knowledge required to shift RCC Precast / Structural Steel units at construction site.
<b>Scope</b>	<p>The scope covers the following:</p> <ul style="list-style-type: none"> <li>• Select and use appropriate rigging gears, hand tools and PPEs</li> <li>• Carry out preparatory work prior to lifting operations</li> <li>• Shift RCC precast units or steel components as per instructions</li> </ul>
<b>Performance Criteria (PC) w.r.t. the Scope</b>	
<b>Element</b>	<b>Performance Criteria</b>
<b>Select and use appropriate rigging gears, hand tools and PPEs</b>	<p>To be competent, the user / individual on the job must be able to:</p> <p>PC1. identify and select appropriate rigging gears required for heavy material lifting and shifting works at construction site</p> <p>PC2. isolate faulty rigging gears and store them separately as per instruction</p> <p>PC3. select appropriate hand tools to be used for heavy material rigging works</p> <p>PC4. select and use appropriate PPEs for lifting operations</p>
<b>Carry out preparatory work prior to lifting operations</b>	<p>PC5. carry out checks to the rigging gears and hand tools for its usability during and prior to material lifting and shifting work</p> <p>PC6. remove obstructions (if any) from equipment movement route as per instructions</p> <p>PC7. check location of lifting for suitability of unloading of loads as per instructions</p> <p>PC8. prepare loads for lifting as per instructions</p> <p>PC9. assist the earth moving Equipments or compactors in order to prepare base for heavy lifting equipment</p>
<b>Shift RCC precast units or steel components as per instructions</b>	<p>PC10. check for presence of safety signage, illumination, barricading at the route of material shifting as per agreed work plan</p> <p>PC11. report clearly and concisely to senior in case of unsafe condition for material lifting and shifting</p> <p>PC12. place prescribed supports, frames, blocking and cushioning at the deck of transporting vehicle to prevent in-transit damage of the unit or vehicle as per instruction</p> <p>PC13. anchor units to the right locations and hook up with the prescribed lifting equipment by using slings, shackle, rope or lifting hooks and secure properly against slipping or deflection as per instruction</p> <p>PC14. assist in loading of precast or structural steel units to the transporting vehicle as per instruction</p> <p>PC15. control position of suspended components while being shifted directly by</p>

CON/N0701

**Shift RCC Precast / Structural Steel units at construction site**

	<p>using equipments by pulling efficiently by ropes as per instruction</p> <p>PC16. offload units from vehicle to ground at heavy lifting point by assisting lifting equipments under close supervision</p> <p>PC17. place suitable materials like wooden sleepers, stools, etc. on the base as per instruction to create ground clearance to the materials and provision for further lifting</p> <p>PC18. offload, place and de-sling material on the sleepers safely as per instructions</p>
<b>Knowledge and Understanding (K)</b>	
<p><b>A. Organizational Context</b> (Knowledge of the company / organization and its processes)</p>	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. standard procedure for construction rigging works</p> <p>KA2. safety rules and regulations for construction rigging works</p> <p>KA3. personal protection including use of safety gears and equipment</p> <p>KA4. safe working methods and movements while performing relevant tasks</p> <p>KA5. request procedure for tools &amp; materials</p> <p>KA6. housekeeping &amp; other administrative rules</p>
<p><b>B. Technical Knowledge</b></p>	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. standard practices for shifting and stacking of heavy structural members</p> <p>KB2. safety rules and PPE for shifting and stacking of heavy structural members</p> <p>KB3. service request procedures for material and tools</p> <p>KB4. linear measurement</p> <p>KB5. selection and use of hand tools and rigging gears like pulley, chain block, slings, heavy lifting chains, shackles, hooks, ropes, hammers etc.</p> <p>KB6. how to interpret signage during erection procedures</p> <p>KB7. procedures for attaching of slings to load directly or using lifting gears</p> <p>KB8. standard procedure for creating provisions for further lifting of heavy components or assemblies</p> <p>KB9. basic knowledge of hand signaling used for load lifting operations</p> <p>KB10. dos and don'ts for carrying out rigging operations at construction sites</p> <p>KB11. method of barricading and clear distance to be covered surrounding lifting area</p> <p>KB12. safe posture of load lifting equipments while lifting load</p>
<b>Skills (S)</b>	
<p><b>A. Core Skills/ Generic Skills</b></p>	<p><b>Writing Skills</b></p>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. write in one or more language, preferably in the local language of the site</p>
	<p><b>Reading Skills</b></p>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA2. read in one or more language, preferably in the local language of the site</p>

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**Shift RCC Precast / Structural Steel units at construction site**

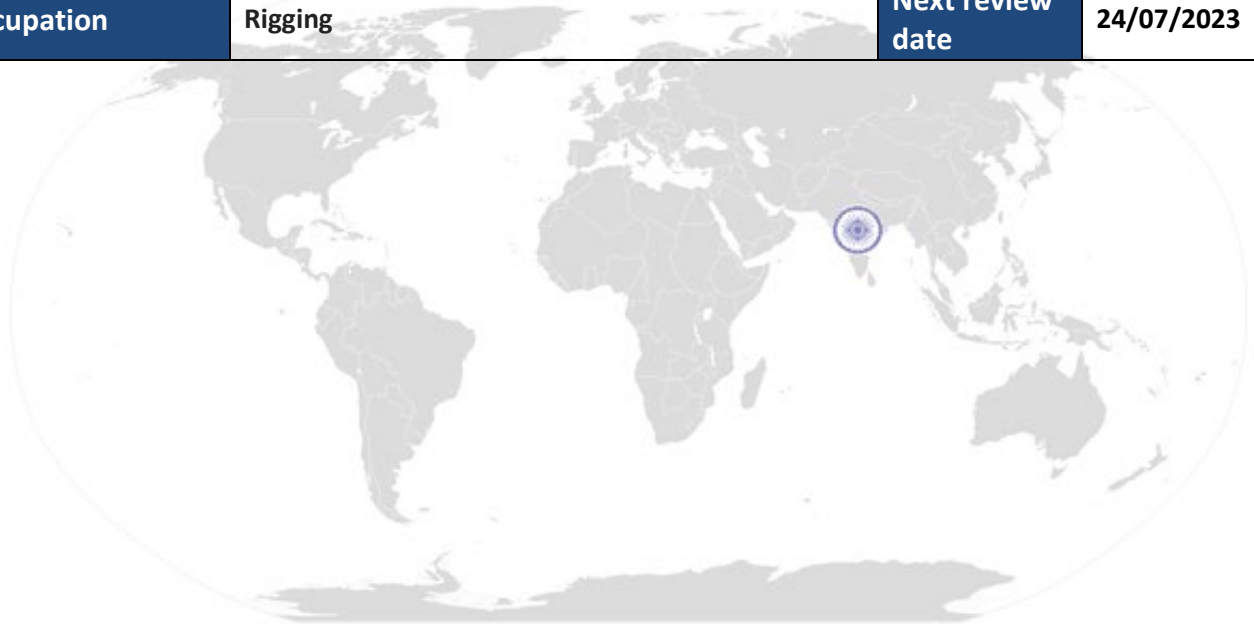
	SA3. read instructions, guidelines, sign boards, safety rules, safety tags and instructions related to exit routes during emergency at the workplace
	<b>Oral Communication (Listening and Speaking skills)</b>
<b>B. Professional Skills</b>	The user/ individual on the job needs to know and understand how to: SA4. speak in one or more language, preferably in one of the local language of the site SA5. listen and follow 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
	<b>Decision Making</b>
	The user/ individual on the job needs to know and understand how to: SB1. decide whether the workplace is safe for working and also check that the relevant work is not creating hazardous conditions for others SB2. decide on the use of rigging gears considering the type of loads SB3. decide on the usability of the rigging gears and reject if found damaged
	<b>Plan and Organize</b>
	The user/ individual on the job needs to know and understand how to: SB4. identify and use relevant tools effectively
	<b>Customer centricity</b>
	The user/individual on the job needs to know and understand how to: SB5. complete work as per agreed time schedule and quality norms
	<b>Problem solving</b>
	The user/individual on the job needs to know and understand how to: SB6. N.A
	<b>Analytical Thinking</b>
	The user/individual on the job should know and understand how to: SB7. minimize wastages SB8. revert to superior for selection/sorting of materials
	<b>Critical Thinking</b>
	The user/individual on the job needs to know and understand how to: SB9. identify location at which violation of any safety norms may lead to accidents

CON/N0701

Shift RCC Precast / Structural Steel units at construction site

## NOS Version Control

<b>NOS Code</b>	<b>CON/N0701</b>		
<b>Credits (NSQF)</b>	TBD	<b>Version number</b>	1.1
<b>Industry</b>	Construction	<b>Drafted on</b>	06/04/2018
<b>Industry Sub-sector</b>	Real Estate and Infrastructure Construction	<b>Last reviewed on</b>	24/07/2019
<b>Occupation</b>	Rigging	<b>Next review date</b>	24/07/2023





CON/N0702 Prepare surface of RCC precast units or structural steel units prior to erection

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# National Occupational Standard



## Overview

This NOS covers the skills and knowledge required by a workman to be proficient in preparing surface of RCC precast units or structural steel units prior to erection.

**CON/N0702 Prepare surface of RCC precast units or structural steel units prior to erection**

**National Occupational Standard**

<b>Unit Code</b>	<b>CON/N0702</b>
<b>Unit Title (Task)</b>	<b>Prepare surface of RCC precast units or structural steel units prior to erection</b>
<b>Description</b>	This unit describes the skills and knowledge required to prepare surface of RCC precast units or structural steel units prior to erection.
<b>Scope</b>	The scope covers the following: <ul style="list-style-type: none"> <li>• Carry out abrasive blasting to structural steel and precast RCC sections</li> <li>• Carry out epoxy gluing in segmental RCC precast construction works</li> </ul>
<b>Performance Criteria (PC) w.r.t. the Scope</b>	
<b>Element</b>	<b>Performance Criteria</b>
<b>Carry out abrasive blasting to structural steel and precast RCC sections</b>	To be competent, the user/individual on the job must be able to: <ul style="list-style-type: none"> <li>PC1. check surroundings to ensure safe condition for sandblasting</li> <li>PC2. erect obstructing arrangement surrounding to the area of sand blasting operation as per instruction</li> <li>PC3. adjust the air compressor and sandblaster gauges to the correct or desired pressure</li> <li>PC4. grade abrasive materials as per instruction prior to start blasting operation</li> <li>PC5. connect compressor and blasting equipment prior to undertake blasting activity</li> <li>PC6. carry out sandblasting as per instruction and ensure proper cleaning of unwanted substances from RCC or metal surface</li> </ul>
<b>Carry out epoxy gluing in segmental RCC precast construction works</b>	<ul style="list-style-type: none"> <li>PC7. clean existing dust, laitance, unwanted articles from the joints between RCC precast components where gluing is to be done as per instruction</li> <li>PC8. prepare glue-mix (if required) as per instruction</li> <li>PC9. apply glue to the concrete surface as per specification or instruction using suitable means of application</li> </ul>
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b> (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: <ul style="list-style-type: none"> <li>KA1. standard procedure for construction rigging works</li> <li>KA2. safety rules and regulations for construction rigging works</li> <li>KA3. personal protection including use of safety gears and equipment</li> <li>KA4. safe working methods and movements while performing relevant tasks</li> <li>KA5. request procedure for tools &amp; materials</li> <li>KA6. housekeeping &amp; other administrative rules</li> </ul>

**CON/N0702 Prepare surface of RCC precast units or structural steel units prior to erection**

<b>B. Technical Knowledge</b>	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. procedure of handling sand blasting gun</p> <p>KB2. abrasives to be used in sandblasting and their physical properties</p> <p>KB3. safety rules and use of protective jacket, ear plugs, goggles, gloves during sandblasting work</p> <p>KB4. procedure for carrying out sandblasting and wire brushing</p> <p>KB5. properties of epoxy bonding agent</p> <p>KB6. appropriate temperature for application of epoxy bonding agent</p> <p>KB7. manufacturer’s instructions for application of epoxy bonding agent</p>
<b>Skills (S)</b>	
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. write in one or more one language, preferably in the local language of the site</p>
	<b>Reading Skills</b>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA2. read in one or more, preferably in the local language of the site</p> <p>SA3. read instructions, guidelines, sign boards, safety rules, safety tags and instructions related to exit routes during emergency at the workplace</p>
	<b>Oral Communication (Listening and Speaking skills)</b>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA4. speak in one or more language, preferably in one of the local language of the site</p> <p>SA5. listen and follow instructions communicated by supervisors</p> <p>SA6. orally and efficiently communicate with team members</p>
<b>B. Professional Skills</b>	<b>Decision Making</b>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SB1. decide whether the workplace is safe for working and also the relevant work is not creating hazardous conditions for others</p> <p>SB2. decide on the distance of protective arrangement (eg. Curtaining) from the abrasive blasting point</p>
	<b>Plan and Organize</b>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB3. plan self-work as per the direction /close supervision of a level-3 riggers and above</p>
	<b>Customer centricity</b>

**CON/N0702      Prepare surface of RCC precast units or structural steel units prior to erection**

	The user/individual on the job needs to know and understand how to: SB4. ensure work is done within time and as per desired quality as per instructions provided by superiors
	<b>Problem solving</b>
	SB5. N.A
	<b>Analytical Thinking</b>
	The user/individual on the job needs to know and understand how to: SB6. N.A
	<b>Critical Thinking</b>
	The user/individual on the job needs to know and understand how to: SB7. identify location at which violation of any safety norms may lead to accident



**CON/N0702     Prepare surface of RCC precast units or structural steel units prior to erection**

### **NOS Version Control**

<b>NOS Code</b>	<b>CON/N0702</b>		
<b>Credits (NSQF)</b>	TBD	<b>Version number</b>	<b>1.1</b>
<b>Industry</b>	Construction	<b>Drafted on</b>	<b>06/04/2018</b>
<b>Industry Sub-sector</b>	Real Estate and Infrastructure Construction	<b>Last reviewed on</b>	<b>24/07/2019</b>
<b>Occupation</b>	Rigging	<b>Next review date</b>	<b>24/07/2023</b>



CON/N0703

Lay and dismantle pump-line for concreting

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# National Occupational Standard



## Overview

This NOS covers the skills and knowledge required by a workman to be proficient in laying and dismantling pump-line for concreting.

**CON/N0703**

## Lay and dismantle pump-line for concreting

**National Occupational Standard**

<b>Unit Code</b>	<b>CON/N0703</b>
<b>Unit Title (Task)</b>	<b>Lay and dismantle pump-line for concreting</b>
<b>Description</b>	This unit describes the skills and knowledge required to lay and dismantle pump-line for concreting.
<b>Scope</b>	The scope covers the following: <ul style="list-style-type: none"> <li>Shift, stack and clean pipe segments as per requirements</li> <li>Lay, join and dismantle pump-line for concreting</li> </ul>
<b>Performance Criteria (PC) w.r.t. the Scope</b>	
<b>Element</b>	<b>Performance Criteria</b>
<b>Shift, stack and clean pipe segments as per requirements</b>	To be competent, the user / individual on the job must be able to: <ul style="list-style-type: none"> <li>PC1. carry out visual checks to the pipe segments for usability</li> <li>PC2. shift and stack pipe segments as per instruction to appropriate location</li> <li>PC3. select and shift clamps and required hand tools to the work location as per instruction</li> <li>PC4. carry out cleaning of pipe segments as per requirement prior and during concreting work</li> </ul>
<b>Lay, join and dismantle pump-line for concreting</b>	<ul style="list-style-type: none"> <li>PC5. join pipe segments using clamps, turn-buckles, hand tools and supporting tools under supervision</li> <li>PC6. construct working platforms at intervals for maintenance of pump line</li> <li>PC7. lift pipe segments at heights using rigging tools as per work requirement</li> <li>PC8. carry out ramming of external pipes in order to check continuity of flow of concrete during concreting works as per instruction</li> <li>PC9. align pipeline efficiently providing required support at instructed locations to provide stability and water tightness</li> <li>PC10. use standard bent pipes as per instruction to ensure desired flow of concrete in pipeline</li> <li>PC11. join, cut, clean and realign pump lines according to need of concreting works as per instruction</li> <li>PC12. dismantle, lower pump line safely, using appropriate hand tools</li> </ul>
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b> (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: <ul style="list-style-type: none"> <li>KA1. standard procedure for construction rigging works</li> <li>KA2. safety rules and regulations for construction rigging works</li> <li>KA3. personal protection including use of safety gears and equipment</li> <li>KA4. safe working methods and movements while performing relevant tasks</li> <li>KA5. request procedure for tools &amp; materials</li> <li>KA6. housekeeping &amp; other administrative rules</li> </ul>

**CON/N0703**

## Lay and dismantle pump-line for concreting

<b>B. Technical Knowledge</b>	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. selection and use of common lifting tools and tackles like pulley, chain block, slings, shackles, hooks, ropes, hammers etc.</p> <p>KB2. standard procedure of laying and aligning concrete pump line</p> <p>KB3. how to clean concrete from pipe segments without damaging the same</p> <p>KB4. use of standard bent pipes as per requirements</p> <p>KB5. how to use clamps, safety chains, wire strops, anchor brackets, etc. to secure the concrete pipeline</p>
<b>Skills (S)</b>	
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. write in at least one language, preferably in the local language of the site</p>
	<b>Reading Skills</b>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA2. read in one or more one language, preferably in the local language of the site</p> <p>SA3. read instructions, guidelines, sign boards, safety rules, safety tags and instructions related to exit routes during emergency at the workplace</p>
	<b>Oral Communication (Listening and Speaking skills)</b>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA4. speak in one or more language, preferably in one of the local language of the site</p> <p>SA5. listen and follow instructions communicated by supervisors</p> <p>SA6. orally and efficiently communicate with team member</p>
<b>B. Professional Skills</b>	<b>Decision Making</b>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SB1. decide whether the workplace is safe for working and also the relevant work is not creating hazardous conditions for others</p> <p>SB2. decide on the rigging tools are to be used for laying pump-line as per work requirement</p>
	<b>Plan and Organize</b>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB3. plan method of supporting to be provided to the pipe assembly</p> <p>SB4. plan handling and stacking methods of pipe segments during shifting and erection</p>
	<b>Customer centricity</b>



**CON/N0703**

## Lay and dismantle pump-line for concreting

	The user/individual on the job needs to know and understand how to: SB1. ensure work is done within time and as per desired quality as per instructions provided by superiors
	<b>Problem solving</b>
	SB2. N.A
	<b>Analytical Thinking</b>
	SB3. N.A
	<b>Critical Thinking</b>
	The user/individual on the job needs to know and understand how to: SB4. identify location at which violation of any safety norms may lead to accident



**CON/N0703**

**Lay and dismantle pump-line for concreting**

**NOS Version Control**

<b>NOS Code</b>	<b>CON/N0703</b>		
<b>Credits (NSQF)</b>	TBD	<b>Version number</b>	<b>1.1</b>
<b>Industry</b>	Construction	<b>Drafted on</b>	<b>06/04/2018</b>
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<b>Occupation</b>	Rigging	<b>Next review date</b>	<b>24/07/2023</b>



CON/N0704

Assist in carrying out staging for heavy RCC work

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# National Occupational Standard



## Overview

This NOS covers the skills and knowledge required by a workman to be proficient in assisting in carrying out staging for heavy RCC work.

**CON/N0704**

**Assist in carrying out staging for heavy RCC work**

National Occupational Standard

<b>Unit Code</b>	<b>CON/N0704</b>
<b>Unit Title (Task)</b>	<b>Assist in carrying out staging for heavy RCC work</b>
<b>Description</b>	This unit describes the skills and knowledge required to assist in carrying out staging for heavy RCC work
<b>Scope</b>	The scope covers the following: <ul style="list-style-type: none"> <li>Identify and handle staging components</li> <li>Assist in erection and dismantling of staging</li> </ul>
<b>Performance Criteria (PC) w.r.t. the Scope</b>	
<b>Element</b>	<b>Performance Criteria</b>
<b>Identify and handle staging components</b>	To be competent, the user / individual on the job must be able to: <ul style="list-style-type: none"> <li>PC1. identify and select staging components such as trestles, heavy duty H- frames, acrosports, base jacks, clamps etc.</li> <li>PC2. carry out visual checks on staging components to ensure their physical condition is safe for working</li> <li>PC3. shift and stack required staging materials at proper location as per direction</li> <li>PC4. shift and stack chain pulleys, ropes, hooks, shackles required for erection of staging to the work location as per instruction</li> </ul>
<b>Assist in erection and dismantling of staging</b>	<ul style="list-style-type: none"> <li>PC5. check base of scaffolding for adequate compaction or rigidity and level</li> <li>PC6. assist in erection of vertical and bracing components at specified intervals as per instruction</li> <li>PC7. assist in lifting staging components at required locations using appropriate tools and tackles like chain hoist, pulley, hooks etc.</li> <li>PC8. provide supports at appropriate location using appropriate formwork component as per direction</li> <li>PC9. carry out housekeeping work at work site as per instruction</li> </ul>
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b> (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: <ul style="list-style-type: none"> <li>KA1. standard procedure for construction rigging works</li> <li>KA2. safety rules and regulations for construction rigging works</li> <li>KA3. personal protection including use of safety gears and equipment</li> <li>KA4. safe working methods and movements while performing relevant tasks</li> <li>KA5. request procedure for tools &amp; materials</li> <li>KA6. housekeeping &amp; other administrative rules</li> </ul>

CON/N0704

## Assist in carrying out staging for heavy RCC work

<b>B. Technical Knowledge</b>	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. use and name of hand tools and rigging gears which are commonly used for staging works such as hammer, pulley, rope, spanner etc.</p> <p>KB2. components required for staging work for heavy RCC structure like trestles, H-frames, acrosplans, base jacks, timber, clamps, MS channels etc.</p> <p>KB3. standard procedure of lifting heavy material components using rigging tools and tackles</p> <p>KB4. standard procedure of shifting, storing and stacking staging materials at worksite</p>
<b>Skills (S)</b>	
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. write in one or more languages, preferably in the local language of the site</p>
	<b>Reading Skills</b>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA2. read in one or more languages, preferably in the local language of the site</p> <p>SA3. read instructions, guidelines, sign boards, safety rules, safety tags and instructions related to exit routes during emergency at the workplace</p>
	<b>Oral Communication (Listening and Speaking skills)</b>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA4. speak in one or more languages, preferably in one of the local language at the site</p> <p>SA5. listen and follow instructions / communication shared by superiors/ co-workers regarding team requirements or interfaces during work processes</p> <p>SA6. orally communicate with co-workers regarding support required to complete the respective work</p>
<b>B. Professional Skills</b>	<b>Decision Making</b>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. decide whether the workplace is safe for working and also that the work is not creating hazardous conditions for other</p> <p>SB2. decide on the usability and type of rigging gears to be used for staging works</p>
	<b>Plan and Organize</b>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB3. plan self-work as per the direction /close supervision of a level-3 riggers and above</p>

CON/N0704

Assist in carrying out staging for heavy RCC work

	<b>Customer centricity</b>
	SB4. ensure work is done within time and as per desired quality as per instructions provided by superiors
	<b>Problem solving</b>
	SB5. N.A
	<b>Analytical Thinking</b>
	SB6. N.A
	<b>Critical Thinking</b>
	The user/individual on the job needs to know and understand how to: SB7. determine any violation from organizational and standard safety norms



CON/N0704

Assist in carrying out staging for heavy RCC work

### NOS Version Control

<b>NOS Code</b>	<b>CON/N0704</b>		
<b>Credits (NSQF)</b>	TBD	<b>Version number</b>	1.1
<b>Industry</b>	Construction	<b>Drafted on</b>	06/04/2018
<b>Industry Sub-sector</b>	Real Estate and Infrastructure Construction	<b>Last reviewed on</b>	24/07/2019
<b>Occupation</b>	Rigging	<b>Next review date</b>	24/07/2023



CON/N0705

Assist in in-situ RCC piling works

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# National Occupational Standard



## Overview

This NOS covers the skills and knowledge required by a workman to be proficient in assisting in in-situ RCC piling works.



CON/N0705

### Assist in in-situ RCC piling works

National Occupational Standard

<b>Unit Code</b>	<b>CON/N0705</b>
<b>Unit Title (Task)</b>	<b>Assist in In-situ RCC piling works</b>
<b>Description</b>	This unit describes the skills and knowledge required to assist in in-situ RCC piling works
<b>Scope</b>	<p>The scope covers the following:</p> <ul style="list-style-type: none"> <li>Carry out preparatory works</li> <li>Assist in piling works</li> </ul>
<b>Performance Criteria (PC) w.r.t. the Scope</b>	
<b>Element</b>	<b>Performance Criteria</b>
<b>Carry out preparatory works</b>	<p>To be competent, the user / individual on the job must be able to:</p> <p>PC1. identify, shift and stack tools and accessories required for piling works at specified work location as per instruction</p> <p>PC2. assist in erection of piling tripod at appropriate positions</p> <p>PC3. assist in establishing winch, pumps and pipelines required for piling operation at specified locations</p> <p>PC4. erect barricading, safety signage at the work location as per instruction</p> <p>PC5. clean piling tools and accessories as per requirement prior and post concreting work</p>
<b>Assist in piling works</b>	<p>PC6. apply bentonite to the earth - pit as per requirement and instruction</p> <p>PC7. clean sludge, muck generated from the boreholes manually and dispose the same at appropriate location.</p> <p>PC8. carry out cleaning and greasing of concreting tremie, funnel and other accessories as per requirement</p> <p>PC9. assist in shifting and lowering of reinforcement cage in to the bored hole of the pile prior to concreting work</p> <p>PC10. carry out manual earthwork according to work requirement and as per instruction</p>
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b> (Knowledge of the company / organization and its processes)	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. standard procedure for construction rigging works</p> <p>KA2. safety rules and regulations for construction rigging works</p> <p>KA3. personal protection including use of safety gears and equipment</p> <p>KA4. safe working methods and movements while performing relevant tasks</p> <p>KA5. request procedure for tools &amp; materials</p> <p>KA6. housekeeping &amp; other administrative rules</p>

CON/N0705

### Assist in in-situ RCC piling works

<b>B. Technical Knowledge</b>	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. tools used for piling works such as tripod, funnel, auger chisel, tremie etc.</p> <p>KB2. use of lifting tools and equipments in bore hole piling works such as pulley, chain block, winch machine, wire rope etc.</p> <p>KB3. how to operate tremie pipes during manual boring and concreting work</p> <p>KB4. how to erect tripod and its accessories</p> <p>KB5. method of barricading at worksite</p> <p>KB6. use of bentonite in piling works and its physical properties</p> <p>KB7. cleaning of muck and debris from earth pit</p> <p>KB8. signage requirements at piling site</p>
<b>Skills (S)</b>	
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. write in one or more languages, preferably in the local language of the site</p>
	<b>Reading Skills</b>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA2. read in one or more languages, preferably in the local language of the site</p> <p>SA3. read instructions, guidelines, sign boards, safety rules, safety tags and instructions related to exit routes during emergency at the workplace</p>
	<b>Oral Communication (Listening and Speaking skills)</b>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA4. speak in one or more languages, preferably in one of the local language of the site</p> <p>SA5. listen and follow instructions / communication shared by superiors/ co-workers regarding team requirements or interfaces during work processes</p> <p>SA6. orally communicate with co-workers regarding support required to complete the respective work</p>
<b>B. Professional Skills</b>	<b>Decision Making</b>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. decide whether the workplace is safe for working and also that the work is not creating hazardous conditions for other</p> <p>SB2. decide on the usability and type of rigging gears to be used for piling works</p>
	<b>Plan and Organize</b>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB3. plan self-work as per the direction /close supervision of a level-3 riggers and above</p>

**CON/N0705**

**Assist in in-situ RCC piling works**

	<b>Customer centricity</b>
	The user/individual on the job needs to know and understand how to: SB4. ensure work is done within time and as per desired quality as per instructions provided by superiors
	<b>Problem solving</b>
	SB5. N.A
	<b>Analytical Thinking</b>
	SB6. N.A
	<b>Critical Thinking</b>
	The user/individual on the job needs to know and understand how to: SB7. determine any violation from organizational and standard safety norms



**CON/N0705**

**Assist in in-situ RCC piling works**

### **NOS Version Control**

<b>NOS Code</b>	<b>CON/N0705</b>		
<b>Credits (NSQF)</b>	<b>TBD</b>	<b>Version number</b>	<b>1.1</b>
<b>Industry</b>	<b>Construction</b>	<b>Drafted on</b>	<b>06/04/2018</b>
<b>Industry Sub-sector</b>	<b>Real Estate and Infrastructure Construction</b>	<b>Last reviewed on</b>	<b>24/07/2019</b>
<b>Occupation</b>	<b>Rigging</b>	<b>Next review date</b>	<b>24/07/2023</b>



CON/N8001

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

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# National Occupational Standard



## Overview

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

CON/N8001

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

National Occupational Standard

<b>Unit Code</b>	CON/N8001
<b>Unit Title (Task)</b>	Work effectively in a team to deliver desired results at the workplace
<b>Description</b>	This unit describes the skills and knowledge required to work effectively within a team to achieve the desired results.
<b>Scope</b>	The scope covers the following: <ul style="list-style-type: none"> <li>Interact and communicate effectively with co-workers, superiors and subordinates across different teams</li> <li>Support co-workers, superiors and subordinates within the team and across interfacing teams to ensure effective execution of assigned task</li> </ul>
<b>Performance Criteria (PC) w.r.t. the Scope</b>	
<b>Element</b>	<b>Performance Criteria</b>
<b>Interact and communicate in effective and conclusive manner</b>	To be competent, the user / individual on the job must be able to: <ul style="list-style-type: none"> <li>PC1. pass on work related information/ requirement clearly to the team members</li> <li>PC2. inform co-workers and superiors about any kind of deviations from work</li> <li>PC3. address the problems effectively and report if required to immediate supervisor appropriately</li> <li>PC4. receive instructions clearly from superiors and respond effectively on same</li> <li>PC5. communicate to team members/subordinates for appropriate work technique and method</li> <li>PC6. seek clarification and advice as per requirement and applicability</li> </ul>
<b>Support co-workers to execute project requirements</b>	<ul style="list-style-type: none"> <li>PC7. hand over the required material, tools tackles, equipment and work fronts timely to interfacing teams</li> <li>PC8. work together with co-workers in a synchronized manner</li> </ul>
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b> (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: <ul style="list-style-type: none"> <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>
<b>B. Technical Knowledge</b>	The user/individual on the job needs to know and understand: <ul style="list-style-type: none"> <li>KB1. different activities within his work area where an interaction with other</li> </ul>

CON/N8001

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

	<p>workers is required</p> <p>KB2. applicable techniques of work, properties of materials used, tools and tackles used, safety standards that co- workers might need as per the requirement</p> <p>KB3. 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</p> <p>KB4. importance and need of supporting co-workers facing problems for smooth functioning of work</p>
<b>Skills (S)</b>	
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b>
	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
	<b>Reading Skills</b>
	The user/ individual on the job needs to know and understand how to: SA2. read in one or more languages, preferably the local language of the site SA3. read communication from team members regarding work completed, materials used, tools and tackles used, support required
	<b>Oral Communication (Listening and Speaking skills)</b>
	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 language 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
<b>B. Professional Skills</b>	<b>Decision Making</b>
	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>Plan and Organise</b>
	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
	<b>Customer centricity</b>

CON/N8001

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

	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB3. complete all assigned task in coordination with team members</p>
	<p><b>Problem solving</b></p>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB4. take initiative in resolving issues among co-workers or report the same to superiors</p>
	<p><b>Analytical Thinking</b></p>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB5. ensure best ways of coordination among team members</p> <p>SB6. communicate with co-workers considering their educational / social background</p>
	<p><b>Critical Thinking</b></p>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB7. evaluate the complexity of task and determine if any guidance is required from superiors</p>



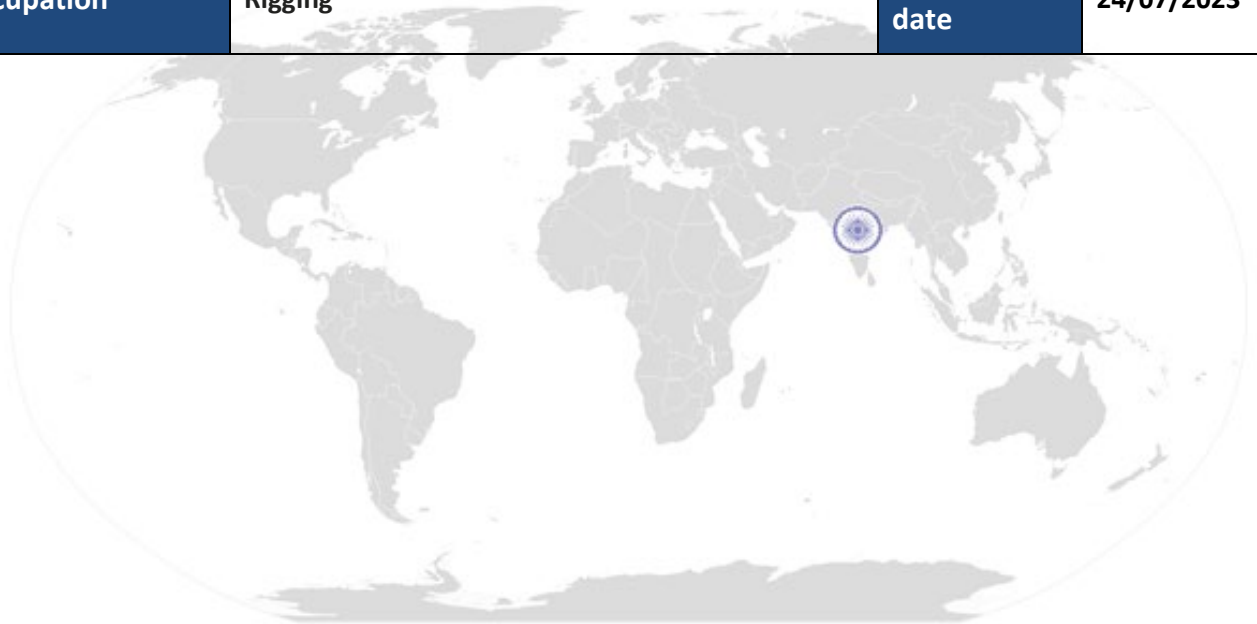


CON/N8001

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

## NOS Version Control

<b>NOS Code</b>	<b>CON/N8001</b>		
<b>Credits (NSQF)</b>	TBD	<b>Version number</b>	<b>1.1</b>
<b>Industry</b>	Construction	<b>Drafted on</b>	<b>06/04/2018</b>
<b>Industry Sub-sector</b>	Real Estate and Infrastructure Construction	<b>Last reviewed on</b>	<b>24/07/2019</b>
<b>Occupation</b>	Rigging	<b>Next review date</b>	<b>24/07/2023</b>



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

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# National Occupational Standard



## Overview

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

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

<b>National Occupational Standard</b>	<b>Unit Code</b>	<b>CON/N9001</b>
	<b>Unit Title (Task)</b>	<b>Work according to personal health, safety and environment protocol at construction site</b>
	<b>Description</b>	This NOS covers the skill and knowledge required for an individual to work according to personal health, safety and environmental protocol at construction site
	<b>Scope</b>	The scope covers the following: <ul style="list-style-type: none"> <li>Follow safety norms as defined by organization</li> <li>Adopt healthy &amp; safe work practices</li> <li>Implement good housekeeping and environment protection process and activities</li> </ul>
	<b>Performance Criteria (PC) w.r.t. the Scope</b>	
	<b>Element</b>	<b>Performance Criteria</b>
	<b>Follow safety norms as defined by organization</b>	To be competent, the user / individual on the job must be able to: <ul style="list-style-type: none"> <li>PC1. identify and report any hazards, risks or breaches in site safety to the appropriate authority</li> <li>PC2. follow emergency and evacuation procedures in case of accidents, fires, natural calamities</li> <li>PC3. follow recommended safe practices in handling construction materials, including chemical and hazardous material whenever applicable</li> <li>PC4. participate in safety awareness programs like Tool Box Talks, safety demonstrations, mock drills, conducted at site</li> <li>PC5. select and operate different types of fire extinguishers corresponding to types of fires as per EHS guideline</li> <li>PC6. identify near miss , unsafe condition and unsafe act</li> </ul>
	<b>Adopt healthy &amp; safe work practices</b>	<ul style="list-style-type: none"> <li>PC7. use appropriate Personal Protective Equipment (PPE) as per work requirements including: <ul style="list-style-type: none"> <li>Head Protection (Helmets)</li> <li>Ear protection</li> <li>Fall Protection</li> <li>Foot Protection</li> <li>Face and Eye Protection,</li> <li>Hand and Body Protection</li> <li>Respiratory Protection (if required)</li> </ul> </li> <li>PC8. handle all required tools, tackles , materials &amp; equipment safely</li> <li>PC9. follow safe disposal of waste, harmful and hazardous materials as per EHS guidelines</li> <li>PC10. install and apply properly all safety equipment as instructed</li> <li>PC11. follow safety protocol and practices as laid down by site EHS department</li> </ul>

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

	PC12. undertake and pass height pass test as per EHS guideline
<b>Implement good housekeeping practices</b>	PC13. collect and deposit construction waste into identified containers before disposal, separate containers that may be needed for disposal of toxic or hazardous wastes PC14. apply ergonomic principles wherever required
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b> (Knowledge of the company / organization and its processes)	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
<b>B. Technical Knowledge</b>	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: <ul style="list-style-type: none"> <li>• non-combustible scrap material and debris</li> <li>• combustible scrap material and debris</li> <li>• general construction waste and trash (non-toxic, non-hazardous)</li> <li>• any other hazardous wastes</li> <li>• any other flammable wastes</li> </ul> KB7. how to use hazardous material, in a safe and appropriate manner as per applicability KB8. knowledge about types of fire KB9. Procedure of operating different types of fire extinguishers KB10. safety relevant to tools, tackles, & requirement as per applicability KB11. housekeeping activities relevant to task
<b>Skills (S)</b>	
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b>
	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 SA2. fill safety formats for near miss, unsafe conditions and safety suggestions
	<b>Reading Skills</b>

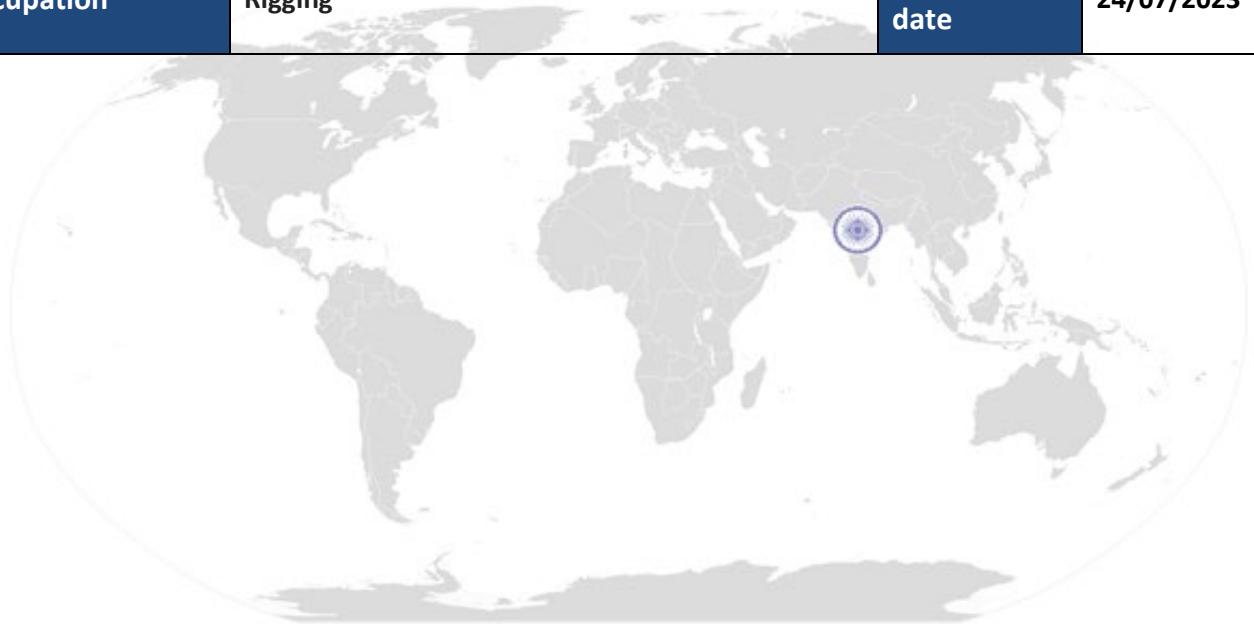
**CON/N9001 Work according to personal health, safety and environment protocol at construction site**

	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA3. read in one or more language, preferably in the local language of the site</p> <p>SA4. read sign boards, notice boards relevant to safety</p>
	<p><b>Oral Communication (Listening and Speaking skills)</b></p>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA5. speak in one or more language, preferably in one of the local language of the site</p> <p>SA6. listen instructions / communication shared by site EHS and superiors regarding site safety, and conducting tool box talk</p> <p>SA7. communicate reporting of site conditions, hazards, accidents, etc.</p>
	<p><b>Decision Making</b></p>
<b>B. Professional Skills</b>	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. not create unsafe conditions for others</p> <p>SB2. keep the workplace clean and tidy</p>
	<p><b>Plan and Organise</b></p>
	SB3. N.A
	<p><b>Customer centricity</b></p>
	SB4. N.A
	<p><b>Problem solving</b></p>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB5. identify safety risks that affect the health, safety and environment for self and others working in the vicinity, tackle it if within limit or report to appropriate authority</p>
	<p><b>Analytical Thinking</b></p>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB6. assess and analyze areas which may affect health, safety and environment protocol on the site</p>
	<p><b>Critical Thinking</b></p>
<p>The user/individual on the job needs to know and understand how to:</p> <p>SB7. ensure personal safety behavior</p> <p>SB8. respond to emergency</p>	

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

**NOS Version Control**

<b>NOS Code</b>	<b>CON/N9001</b>		
<b>Credits (NSQF)</b>	TBD	<b>Version number</b>	<b>1.3</b>
<b>Industry</b>	Construction	<b>Drafted on</b>	<b>06/04/2018</b>
<b>Industry Sub-sector</b>	Real Estate and Infrastructure Construction	<b>Last reviewed on</b>	<b>24/07/2019</b>
<b>Occupation</b>	Rigging	<b>Next review date</b>	<b>24/07/2023</b>

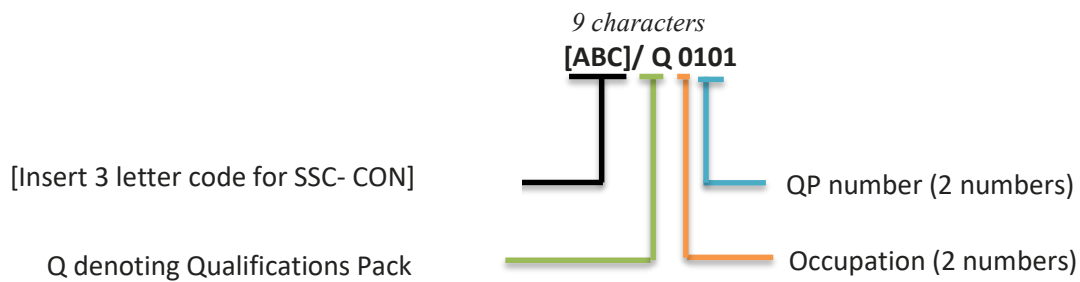


Assessment Criteria for Khalasi (Assistant Rigger)

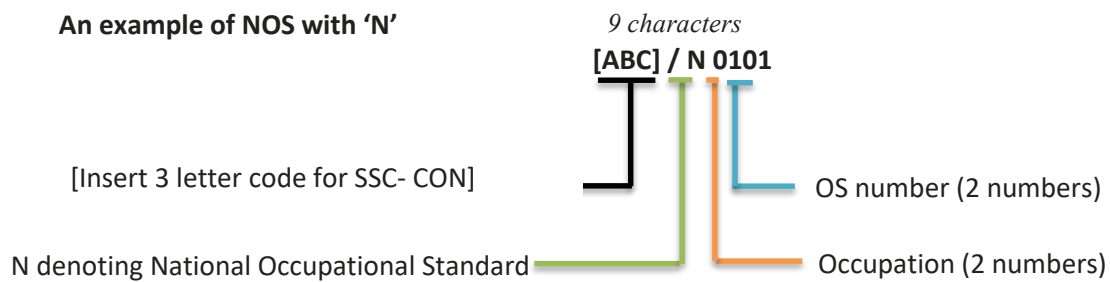
Annexure

Nomenclature for QP and NOS

Qualifications Pack



Occupational Standard



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*Assessment Criteria for Khalasi (Assistant Rigger)*

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

Sub-sector	Range of Occupation numbers
Real Estate and Infrastructure	1-35
Rural Infrastructure Construction	36-50
Scope for new Sub-Sectors	51-99

Sequence	Description	Example
Three letters	Construction Skill Development Council of India	CON
Slash	/	/
Next letter	Whether QP or NOS	Q
Next two numbers	Occupation code	12
Next two numbers	OS number	01



Assessment Criteria for Khalasi (Assistant Rigger)

**CRITERIA FOR ASSESSMENT OF TRAINEES**

<b>Job Role</b>	Khalasi (Assistant Rigger)
<b>Qualification Pack</b>	CON/Q0701
<b>Sector Skill Council</b>	Construction

**Guidelines for Assessment**

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
2. The assessment for the knowledge part will be based on knowledge bank of questions created by Assessment Bodies subject to approval by SSC
3. Individual assessment agencies will create unique question papers for knowledge/theory part for assessment of candidates as per assessment criteria given below
4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on assessment criteria.
5. The passing percentage for each QP will be 50%. To pass the Qualification Pack, every trainee should score a minimum of 50% individually in each NOS.
6. The Assessor shall check the final outcome of the practices while evaluating the steps performed to achieve the final outcome.
7. The trainee shall be provided with a chance to repeat the test to correct his procedures in case of improper performance, with a deduction of marks for each iteration.
8. After the certain number of iteration as decided by SSC the trainee is marked as fail, scoring zero marks for the procedure for the practical activity.
9. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack within the specified timeframe set by SSC.
10. Minimum duration of Assessment of each QP shall be of 4hrs/trainee.

Assessment outcomes	Assessment Criteria for outcomes	Marks Allocation			
		Total Mark	Out Of	Theory	Skills Practical
CON/N0701: Shift RCC Precast / Structural Steel units at construction site	PC1. identify and select appropriate rigging gears required for heavy material lifting and shifting works at construction site	100	20	6	14
	PC2. isolate faulty rigging gears and store them separately as per instruction				
	PC3. select appropriate hand tools to be used for heavy material rigging works				
	PC4. select and use appropriate PPEs for lifting operations				

Assessment Criteria for Khalasi (Assistant Rigger)

	PC5. carry out checks to the rigging gears and hand tools for its usability during and prior to material lifting and shifting work				
	PC6. remove obstructions (if any) from equipment movement route as per instructions				
	PC7. check location of lifting for suitability of unloading of loads as per instructions	30	9	21	
	PC8. prepare loads for lifting as per instructions				
	PC9. assist to the earth moving equipments or compactors in order to Prepare base for heavy lifting equipments				
	PC10. check for presence of safety signage, illumination, barricading at the route of material shifting as per agreed work plan				
	PC11. report clearly and concisely to senior in case of unsafe condition for material lifting and shifting				
	PC12. place prescribed supports, frames, blocking and cushioning at the deck of transporting vehicle to prevent in-transit damage of the unit or vehicle as per instruction				
	PC13. anchor units to the right locations and hook up with the prescribed lifting equipment by using slings, shackle, rope or lifting hooks and secure properly against slipping or deflection as per instruction				
	PC14. assist in loading of precast or structural steel units to the transporting vehicle as per instruction	50	15	35	
	PC15. control position of suspended components while being shifted directly by using equipments by pulling efficiently by ropes as per instruction				
	PC16. offload units from vehicle to ground at heavy lifting point by assisting lifting equipments under close supervision				
	PC17. place suitable materials like wooden sleepers, stools etc. on the base as per instruction to create ground clearance to the materials and provision for further lifting				
	PC18. offload, place and de-sling material on the sleepers safely as per instructions				
		<b>Total</b>	<b>100</b>	<b>30</b>	<b>70</b>
CON/N0702: Prepare surface of RCC precast units or structural steel units prior to erection	PC1. check surroundings to ensure safe condition for sandblasting	<b>100</b>	70	20	50
	PC2. erect obstructing arrangement surrounding to the area of sand blasting operations as per instruction				
	PC3. adjust the air compressor and sandblaster gauges to the correct or desired pressure				
	PC4. Grade abrasive materials as per instruction prior to start blasting operation				

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	PC5. Connect compressor and blasting equipment prior to undertake blasting activity				
	PC6. carry out sandblasting as per instruction and ensure proper cleaning of unwanted substances from RCC or metal surface				
	PC7. clean existing dust, laitance, unwanted articles from the joints between RCC precast components where gluing is to be done as per instruction				
	PC8. prepare glue-mix (if required) as per instruction		30	10	20
	PC9. apply glue to the concrete surface as per specification or instruction using suitable means of application				
	<b>Total</b>		<b>100</b>	<b>30</b>	<b>70</b>
CON/N0703: Lay and dismantle pump-line for concreting	PC1. carry out visual checks to the pipe segments for usability	<b>100</b>	35	10	25
	PC2. shift and stack pipe segments as per instruction to appropriate location				
	PC3. select and shift clamps and required hand tools to the work location as per instruction				
	PC4. carry out cleaning of pipe segments as per requirement prior and during concreting work				
	PC5. join pipe segments using clamps, turn-buckles, hand tools and supporting tools under supervision				
	PC6. construct working platforms at intervals for maintenance of pump line				
	PC7. lift pipe segments at heights using rigging tools as per work requirement		65	20	45
	PC8. carry out ramming of external pipes in order to check continuity of flow of concrete during concreting works as per instruction				
	PC9. align pipeline efficiently providing required support at instructed locations to provide stability and water tightness				
	PC10. use standard bent pipes as per instruction to ensure desired flow of concrete in pipeline				
	PC11. join, cut, clean and realign pump lines according to need of concreting works as per instruction				
	PC12. dismantle, lower pump line safely, using appropriate hand tools				
	<b>Total</b>		<b>100</b>	<b>30</b>	<b>70</b>
CON/N0704: Assist in carrying out staging for heavy RCC work	PC1. identify and select staging components such as trestles, heavy duty H- frames, acrospans, base jacks, clamps etc.	<b>100</b>	35	10	25
	PC2. carry out visual checks on staging components to ensure their physical condition is safe for working				

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	PC3. shift and stack required staging materials at proper location as per direction				
	PC4. shift and stack chain pulleys, ropes, hooks, shackles required for erection of staging to the work location as per instruction				
	PC5. check base of scaffolding for adequate compaction or rigidity and level				
	PC6. assist in erection of vertical and bracing components at specified intervals as per instruction				
	PC7. assist in lifting staging components at required locations using appropriate tools and tackles like chain hoist, pulley, hooks etc.		65	20	45
	PC8. provide supports at appropriate location using appropriate formwork component as per direction				
	PC9. carry out housekeeping work at work site as per instruction				
	<b>Total</b>		<b>100</b>	<b>30</b>	<b>70</b>
CON/N0705: Assist in In-situ RCC piling works	PC1. identify, shift and stack tools and accessories required for piling works at specified work location as per instruction				
	PC2. assist in erection of piling tripod at appropriate positions				
	PC3. assist in establishing winch, pumps and pipelines required for piling operation at specified locations		50	15	35
	PC4. erect barricading, safety signage at the work location as per instruction				
	PC5. clean piling tools and accessories as per requirement prior and post concreting work				
	PC6. apply bentonite to the earth - pit as per requirement and instruction				
	PC7. clean sludge, muck generated from the boreholes manually and dispose the same at appropriate location.				
	PC8. carry out cleaning and greasing of concreting tremie, funnel and other accessories as per requirement		50	15	35
	PC9. assist in shifting and lowering of reinforcement cage in to the bored hole of the pile prior to concreting work				
	PC10. carry out manual earthwork according to work requirement and as per instruction				
	<b>Total</b>		<b>100</b>	<b>30</b>	<b>70</b>
CON/N8001: Work effectively in a team to deliver desired results at	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		60	18	42

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the workplace	PC3. address the problems effectively and report if required to immediate supervisor appropriately				
	PC4. receive instructions clearly from superiors and respond effectively on same				
	PC5. communicate to team members / subordinates for appropriate work technique and method				
	PC6. seek clarification and advice as per requirement and applicability				
	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				
	<b>Total</b>				
		<b>100</b>	<b>30</b>	<b>70</b>	
CON/N9001: Work according to personal health, safety and environment protocol at construction site	PC1. identify and report any hazards, risks or breaches in site safety to the appropriate 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. select and operate different types of fire extinguishers corresponding to types of fires as per EHS guideline				
	PC6. identify near miss , unsafe condition and unsafe act				
	PC7. use appropriate Personal Protective Equipment (PPE) as per work requirements including: <ul style="list-style-type: none"> <li>• Head Protection (Helmets)</li> <li>• Ear protection</li> <li>• Fall Protection</li> <li>• Foot Protection</li> <li>• Face and Eye Protection,</li> <li>• Hand and Body Protection</li> <li>• Respiratory Protection (if required)</li> </ul>				
	PC8. handle all required tools, tackles , materials & equipment safely				
	PC9. follow safe disposal of waste, harmful and hazardous materials as per EHS guidelines				
	PC10. install and apply properly all safety equipment as instructed				
	PC11. follow safety protocol and practices as laid down				
	<b>100</b>				
		<b>30</b>	<b>10</b>	<b>20</b>	
		<b>50</b>	<b>15</b>	<b>35</b>	

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	by site EHS department				
	PC 12. undertake and pass height pass test as per EHS guidelines				
	PC13. collect and deposit construction waste into identified containers before disposal, separate containers that may be needed for disposal of toxic or hazardous wastes		20	5	15
	PC14. apply ergonomic principles wherever required				
		<b>Total</b>	<b>100</b>	<b>30</b>	<b>70</b>