सत्यमेव जयते
GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT
& ENTREPRENEURSHIP

Qualification Pack

N·S·D·C National Skill Development Corporation
Transforming the skill landscape

Brick Mason

Electives: General/ Plastering

Options: VDF flooring / Random rubble works

QP Code: CON/Q0113

Version: 1.0

NSQF Level: 4

Construction Skill Development Council of India || CPB 103 & 104 (1st Floor), Block 4B, DLF Corporate Park, Phase III, MG Road
Gurgaon-122002

Contents

CON/Q0113: Brick Mason

Brief Job Description

Brick mason is required to perform routine masonry works such as brickwork, block work, laying paver blocks ,plastering, brick bat coba waterproofing, random rubble masonry and IPS/Tremix flooring works etc.

Personal Attributes

The brick mason is expected to be physically fit to work across various locations with varied environmental conditions. The person should be organized, diligent, methodical, safety-conscious, and a prompt decision-maker. In addition to being a team player, the individual should have good communication skills.

Applicable National Occupational Standards (NOS)

Compulsory NOS:

1. CON/N0143: Mark the layout for brick/block works
2. CON/N0144: Carry out brick laying work
3. CON/N0145: Carry out block laying work
4. CON/N8001: Work effectively in a team to deliver desired results at the workplace
5. CON/N8002: Plan and organize work to meet expected outcomes
6. CON/N9001: Work according to personal health, safety and environment protocols at construction site

Electives*(mandatory to select at least one):*

Elective 1: General

The individual is required to prepare layout, perform brick/block work, perform IPS flooring and perform brick bat coba waterproofing works using appropriate tools and equipment as per approved schedule, drawings and specifications.

1. CON/N0146: Carry out brick bat coba waterproofing
2. CON/N0147: Carry out IPS (Indian Patent Stone) flooring

Elective 2: Plastering

The individual is required to carry out plastering works on various surfaces using appropriate tools and

equipment as per approved schedule, drawings and specifications

1. CON/N0111: Apply plaster on internal & external surfaces of masonry & RCC structure

Options*(Not mandatory):*

Option 1: VDF flooring

This unit describes the skills and knowledge required to work on VDF flooring

1. CON/N0148: Carry out VDF (Vaccum dewatered floor) flooring

Option 2: Random rubble works

This unit describes the skills and knowledge required to build structures using random rubble masonry

1. CON/N0113: Build structures using random rubble masonry

Qualification Pack (QP) Parameters

Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Masonry
Country	India
NSQF Level	4
Aligned to NCO/ISCO/ISIC Code	NCO-2015/7112.02
Minimum Educational Qualification & Experience	8th Class (ITI (2 years)) with 2 Years of experience in same occupation OR 10th Class with 2 Years of experience in same occupation OR Certificate-NSQF (level 3) with 2 Years of experience in same occupation
Minimum Level of Education for Training in School	
Pre-Requisite License or Training	NIL
Minimum Job Entry Age	18 Years

Last Reviewed On	31/03/2022
Next Review Date	31/03/2025
NSQC Approval Date	31/03/2022
Version	1.0
Reference code on NQR	2022/CON/CSDCI/05600
NQR Version	1.0

CON/N0143: Mark the layout for brick/block works

Description

This unit describes the skills and knowledge required to mark layout for brick/block works

Scope

The scope covers the following :

- Carry out preparatory work for layout marking
- Mark the layout for brick/block work

Elements and Performance Criteria

Carry out preparatory work for layout marking

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

PC1. read and interpret the basic working drawings / sketches before the commencement of brick / block work

PC2. select required tools for the task and ensure they are in working condition

PC3. select appropriate Personal Protective Equipment (P.P.E.s) for the task

PC4. ensure work place is clear for marking the layout

PC5. set out the layouts as per sketches/drawings

PC6. identify and transfer required levels using appropriate tools

Mark the layout for brick/block work

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

PC7. mark the centre lines of the rooms by setting perpendiculars using 3-4-5 method and check right angle (90°)at corners

PC8. set out 90° corners using builders square or 3-4-5 method and check right angle

PC9. perform marking for acute angle, obtuse angle, splayed wall etc.

PC10. check the diagonals ensuring they are equal

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. standard practices of masonry works

KU2. safety rules and regulations for handling and storing relevant tools, equipment, and materials required for relevant works in accordance with organizational norms

KU3. importance of personal protection including the use of related safety gears & equipment in accordance with organizational norms

KU4. service request procedures for tools, materials and equipment as per organizational norms

KU5. procedure for maintenance of tools and equipment

KU6. basic principles of measurement

KU7. tools and equipment required for layout marking and earthwork, their use and maintenance
KU8. how to use the 3-4-5 method for squaring corners
KU9. standard practices for layout
KU10. layout sketches for foundation ,walls and other masonry units

Generic Skills (GS)

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

GS1. write in at least one language, preferably in the local language of the site
GS2. read sketches/routine work drawings, instructions provided for the work, and various signboards, safety rules, safety tags, exit route information in one or more languages, preferably in the local language of the site
GS3. speak in one or more language, preferably one of the local language at the site
GS4. communicate orally and effectively with team members
GS5. analyze the safety aspect of the workplace
GS6. plan work and organize required resource effectively
GS7. complete work as per agreed time schedule and quality parameters
GS8. resolve any conflict within the teammates
GS9. evaluate the complexity of the tasks
GS10. identify any violation of safety norms during the work

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Carry out preparatory work for layout marking	**6**	**14**	**-**	**-**
PC1. read and interpret the basic working drawings / sketches before the commencement of brick / block work	-	-	-	-
PC2. select required tools for the task and ensure they are in working condition	-	-	-	-
PC3. select appropriate Personal Protective Equipment (P.P.E.s) for the task	-	-	-	-
PC4. ensure work place is clear for marking the layout	-	-	-	-
PC5. set out the layouts as per sketches/drawings	-	-	-	-
PC6. identify and transfer required levels using appropriate tools	-	-	-	-
Mark the layout for brick/block work	**24**	**56**	**-**	**-**
PC7. mark the centre lines of the rooms by setting perpendiculars using 3-4-5 method and check right angle (90°)at corners	-	-	-	-
PC8. set out 90° corners using builders square or 3-4-5 method and check right angle	-	-	-	-
PC9. perform marking for acute angle, obtuse angle, splayed wall etc.	-	-	-	-
PC10. check the diagonals ensuring they are equal	-	-	-	-
NOS Total	**30**	**70**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	CON/N0143
NOS Name	Mark the layout for brick/block works
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Masonry
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	31/03/2022
Next Review Date	31/03/2025
NSQC Clearance Date	31/03/2022

CON/N0144: Carry out brick laying work

Description

This unit describes the skills and knowledge required to carry out brick laying work

Scope

The scope covers the following :

- Check material used for brickwork
- Lay bricks for construction of load bearing / non-load bearing wall, columns and footings
- Check the line, level and alignment
- Carry out pointing in brick masonry
- Perform specialized masonry works such as arches, staircase, manholes and walkways
- Repair and restore brick masonry

Elements and Performance Criteria

• Check material used for brickwork

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

PC1. ensure tools are in working condition

PC2. check visually for the quality of bricks / blocks prior to use

PC3. ensure fine aggregate is sieved as per grade requirement

PC4. ensure bricks are soaked prior to use

• Lay bricks for construction of load bearing / non-load bearing wall, columns and footings

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

PC5. select appropriate tools and equipment as per the tasks at requirement such as: different types of trowels (of the right blade size), masons hammer, blocking chisel, mashing hammer, jointers etc.

PC6. break bricks to required shape and size using appropriate tools

PC7. estimate the quantity of raw material required

PC8. lay and fix bricks as per required bond within tolerance limit using appropriate mortar as per applicability

PC9. check vertical and horizontal alignment using appropriate tools

PC10. maintain line and level of each course of brickwork using wooden / aluminium straight edge sections

PC11. set out 90° corners using builders square or 3-4-5 method and check right angle

PC12. ensure proper curing of constructed masonry structure

Carry out pointing in brick masonry

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

PC13. perform raking of joints as specified prior to drying of bonding mortar

PC14. ensure that joints are cleaned and surface is wet prior to pointing

PC15. ensure lime/cement mortar for pointing is prepared as per specification

PC16. fill joints with appropriate mortar to obtain specified type of pointing

PC17. carry out various types of pointing works as per specification using appropriate tools and technique

PC18. ensure proper curing of pointing

Perform specialized masonry works such as arches, staircase, manholes, and walkways

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

PC19. maintain set out of tread and riser of staircase as per drawing/instruction

PC20. ensure masonry works as per required bond, alignment and plumb

PC21. maintain bricks for manholes as per required line & level and providing channels and benching

PC22. lay and fix paver blocks to designed pattern & finish the joints as specified

PC23. install anchors and ties for masonry arches

PC24. install arch masonry unit by laying and aligning as per specified bond

PC25. cut creepers around corners and full joints to obtain a flushed structure

PC26. ensure proper curing of constructed masonry structure

Repair and restore brick masonry

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

PC27. remove deteriorated elements from masonry structures using tools such as saws drills and chisels without causing damage to adjacent structure

PC28. reinstall bricks to match previous or existing work

PC29. perform proper pointing and raking of joint to obtain desired surface for exposed brick work

PC30. ensure proper bonding with old and new surface

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. standard practices for masonry work

KU2. safety rules and regulations for handling and storing relevant tools, equipment, and materials required for relevant works in accordance with organizational norms

KU3. importance of personal protection including the use of related safety gears & equipment in accordance with organizational norms

KU4. service request procedures for tools, materials and equipment as per organizational norms

KU5. procedure for maintenance of tools and equipment

KU6. sketches for building bricks structures

KU7. basic principles of measurement

KU8. standard specification of all masonry tools and equipment, their care and maintenance

KU9. Different types/grades of cement, aggregates and bricks including fly ash bricks and low water absorbing bricks

KU10. English ,Flemish , stretcher & header bond

KU11. how to use basic leveling tools in the masonry trade such as: Spirit level, water level, plumb bob, line thread etc.

KU12. how to select and use tools and equipment such as: Measuring tape, trowels, floats, brushes, screed boards, straightedge, concrete mixer, mortar boards and stands, shovels, wheelbarrows, hawks, joint rules, mason's square, buckets, power leads, spade, volume box, water measuring jug

KU13. how to determine vertical and horizontal alignment using appropriate tools to provide vertical datum lines for building measurements

KU14. how to use the 3-4-5 method for squaring corners

KU15. various techniques / procedures for cutting/chiseling/dressing different types of bricks to closure

KU16. how to lay and fix brick in position

KU17. size of gist and joints

KU18. cement mix proportion and its importance

KU19. water-cement ratio

KU20. method of curing of masonry structures

KU21. arch component & terminology

KU22. importance of proper joint spacing & gauging in arches

KU23. techniques for repairing & finishing

KU24. various types of pointing in brick masonry and its application including: flush pointing, keyed/grooved pointing, recessed pointing, struck pointing

KU25. different mortar mix used for pointing

KU26. various pointing and raking tools and techniques and method of pointing a joint as per specification

Generic Skills (GS)

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

GS1. write in at least one language, preferably in the local language of the site

GS2. read sketches/routine work drawings, instructions provided for the work, and various signboards, safety rules, safety tags, exit route information in one or more languages, preferably in the local language of the site

GS3. speak in one or more language, preferably one of the local language at the site

GS4. communicate orally and effectively with team members

GS5. analyze the safety aspect of the workplace

GS6. plan work and organize required resource effectively

GS7. complete work as per agreed time schedule and quality parameters

GS8. resolve any conflict within the teammates

GS9. evaluate the complexity of the tasks

GS10. identify any violation of safety norms during the work

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
• Check material used for brickwork	**3**	**7**	**-**	**-**
PC1. ensure tools are in working condition	-	-	-	-
PC2. check visually for the quality of bricks / blocks prior to use	-	-	-	-
PC3. ensure fine aggregate is sieved as per grade requirement	-	-	-	-
PC4. ensure bricks are soaked prior to use	-	-	-	-
• Lay bricks for construction of load bearing / non-load bearing wall, columns and footings	**9**	**21**	**-**	**-**
PC5. select appropriate tools and equipment as per the tasks at requirement such as: different types of trowels (of the right blade size), masons hammer, blocking chisel, mashing hammer, jointers etc.	-	-	-	-
PC6. break bricks to required shape and size using appropriate tools	-	-	-	-
PC7. estimate the quantity of raw material required	-	-	-	-
PC8. lay and fix bricks as per required bond within tolerance limit using appropriate mortar as per applicability	-	-	-	-
PC9. check vertical and horizontal alignment using appropriate tools	-	-	-	-
PC10. maintain line and level of each course of brickwork using wooden / aluminium straight edge sections	-	-	-	-
PC11. set out 90° corners using builders square or 3-4-5 method and check right angle	-	-	-	-
PC12. ensure proper curing of constructed masonry structure	-	-	-	-
Carry out pointing in brick masonry	**3**	**7**	**-**	**-**

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC13. perform raking of joints as specified prior to drying of bonding mortar	-	-	-	-
PC14. ensure that joints are cleaned and surface is wet prior to pointing	-	-	-	-
PC15. ensure lime/cement mortar for pointing is prepared as per specification	-	-	-	-
PC16. fill joints with appropriate mortar to obtain specified type of pointing	-	-	-	-
PC17. carry out various types of pointing works as per specification using appropriate tools and technique	-	-	-	-
PC18. ensure proper curing of pointing	-	-	-	-
Perform specialized masonry works such as arches, staircase, manholes, and walkways	**12**	**28**	**-**	**-**
PC19. maintain set out of tread and riser of staircase as per drawing/instruction	-	-	-	-
PC20. ensure masonry works as per required bond, alignment and plumb	-	-	-	-
PC21. maintain bricks for manholes as per required line & level and providing channels and benching	-	-	-	-
PC22. lay and fix paver blocks to designed pattern & finish the joints as specified	-	-	-	-
PC23. install anchors and ties for masonry arches	-	-	-	-
PC24. install arch masonry unit by laying and aligning as per specified bond	-	-	-	-
PC25. cut creepers around corners and full joints to obtain a flushed structure	-	-	-	-
PC26. ensure proper curing of constructed masonry structure	-	-	-	-
Repair and restore brick masonry	**3**	**7**	**-**	**-**

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC27. remove deteriorated elements from masonry structures using tools such as saws drills and chisels without causing damage to adjacent structure	-	-	-	-
PC28. reinstall bricks to match previous or existing work	-	-	-	-
PC29. perform proper pointing and raking of joint to obtain desired surface for exposed brick work	-	-	-	-
PC30. ensure proper bonding with old and new surface	-	-	-	-
NOS Total	**30**	**70**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	CON/N0144
NOS Name	Carry out brick laying work
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Masonry
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	31/03/2022
Next Review Date	31/03/2025
NSQC Clearance Date	31/03/2022

CON/N0145: Carry out block laying work

Description

This unit describes the skills and knowledge required to construct various masonry structures using block

Scope

The scope covers the following :

- Check material used for block work
- Lay block for construction of wall
- Repair and restore block masonry

Elements and Performance Criteria

Check material used for block work

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

PC1. check visually the quality of blocks prior to use

PC2. ensure fine aggregate is sieved as per grade requirement

PC3. ensure blocks are soaked prior to use

Lay block for construction of wall

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

PC4. select appropriate tools and equipment as per the tasks at requirement such as: different types of trowels (of the right blade size), masons hammer, blocking chisel, mashing hammer, jointers etc.

PC5. estimate the quantity of raw material required

PC6. lay and fix blocks as per specification within tolerance limit using appropriate mortar as per applicability

PC7. lay and fix blocks with appropriate adhesives for thin joint masonry

PC8. maintain required level and specified slope for construction

PC9. check vertical and horizontal alignment using appropriate tools

PC10. maintain line and level of each course of brickwork using wooden / aluminum straight edge sections

PC11. set out 90° corners using builders square or 3-4-5 method and check right angle

Repair and restore block masonry

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

PC12. remove deteriorated elements from masonry structures using tools such as saw, drills and chisels without causing damage to adjacent structure

PC13. reinstall block to match previous or existing work

PC14. ensure proper bonding with old and new surface

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. standard practices for masonry work
KU2. safety rules and regulations for handling and storing relevant tools, equipment, and materials required for relevant works in accordance with organizational norms
KU3. importance of personal protection including the use of related safety gears & equipment in accordance with organizational norms
KU4. service request procedures for tools, materials and equipment as per organizational norms
KU5. procedure for maintenance of tools and equipment
KU6. sketches for building block work structures
KU7. basic principles of measurement
KU8. standard specification of all masonry tools and equipments, their care and maintenance
KU9. type and size of raw materials required
KU10. how to use basic leveling tools in the masonry trade such as Spirit level, water level, plumb bob, line thread etc.
KU11. how to select and use tools and equipment such as: Measuring tape, trowels, floats, brushes, screed boards, straightedge, concrete mixer, mortarboards and stands, shovels, wheelbarrows, hawks, joint rules, mason's square, buckets, power leads, spade, volume box, water measuring jug etc.
KU12. how to determine vertical and horizontal alignment using appropriate tools to provide vertical datum lines for building measurements
KU13. how to use the 3-4-5 method for squaring corners
KU14. how to lay and fix blocks in position
KU15. thin joint masonry
KU16. cement mix proportion and its importance
KU17. various adhesives used in block work
KU18. water cement ratio
KU19. techniques for repairing & finishing

Generic Skills (GS)

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

GS1. write in at least one language, preferably in the local language of the site
GS2. read sketches/routine work drawings, instructions provided for the work, and various signboards, safety rules, safety tags, exit route information in one or more languages, preferably in the local language of the site
GS3. speak in one or more language, preferably one of the local language at the site
GS4. communicate orally and effectively with team members
GS5. analyze the safety aspect of the workplace
GS6. plan work and organize required resource effectively
GS7. complete work as per agreed time schedule and quality parameters
GS8. resolve any conflict within the teammates

GS9. evaluate the complexity of the tasks

GS10. identify any violation of safety norms during the work

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Check material used for block work	**3**	**7**	**-**	**-**
PC1. check visually the quality of blocks prior to use	-	-	-	-
PC2. ensure fine aggregate is sieved as per grade requirement	-	-	-	-
PC3. ensure blocks are soaked prior to use	-	-	-	-
Lay block for construction of wall	**21**	**49**	**-**	**-**
PC4. select appropriate tools and equipment as per the tasks at requirement such as: different types of trowels (of the right blade size), masons hammer, blocking chisel, mashing hammer, jointers etc.	-	-	-	-
PC5. estimate the quantity of raw material required	-	-	-	-
PC6. lay and fix blocks as per specification within tolerance limit using appropriate mortar as per applicability	-	-	-	-
PC7. lay and fix blocks with appropriate adhesives for thin joint masonry	-	-	-	-
PC8. maintain required level and specified slope for construction	-	-	-	-
PC9. check vertical and horizontal alignment using appropriate tools	-	-	-	-
PC10. maintain line and level of each course of brickwork using wooden / aluminum straight edge sections	-	-	-	-
PC11. set out 90° corners using builders square or 3-4-5 method and check right angle	-	-	-	-
Repair and restore block masonry	**6**	**14**	**-**	**-**

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC12. remove deteriorated elements from masonry structures using tools such as saw, drills and chisels without causing damage to adjacent structure	-	-	-	-
PC13. reinstall block to match previous or existing work	-	-	-	-
PC14. ensure proper bonding with old and new surface	-	-	-	-
NOS Total	**30**	**70**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	CON/N0145
NOS Name	Carry out block laying work
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Masonry
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	31/03/2022
Next Review Date	31/03/2025
NSQC Clearance Date	31/03/2022

CON/N8001: Work effectively in a team to deliver desired results at the workplace

Description

This unit describes the skills and knowledge required to work effectively within a team to achieve the desired results

Scope

The scope covers the following :

- Interact and communicate in an effective manner
- Support co-workers to execute the project requirements
- Practice inclusion

Elements and Performance Criteria

Interact and communicate in an effective manner

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

PC1. pass on work related information/ requirement clearly to the team members

PC2. inform co-workers and superiors about any kind of deviations from work

PC3. report any unresolved problem to the supervisor immediately

PC4. obtain instructions from superiors and respond on the same

PC5. communicate to team members/subordinates for appropriate work technique and method

PC6. seek clarification and advice as per the requirement

Support co-workers to execute the project requirements

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

PC7. hand over the required material, tools, tackles, equipment and work fronts timely to interfacing teams

PC8. work together with co-workers in a synchronized manner

Practice inclusion

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

PC9. maintain cultural inclusivity at work place

PC10. maintain disability friendly work practices

PC11. follow gender neutral practices at workplace

PC12. address discriminatory and offensive behaviour in a professional manner as per organizational policy

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. own roles and responsibilities

KU2. importance of effective communication

KU3. the consequence of poor teamwork on project outcomes, timelines, safety at the construction site, etc.

KU4. different modes of communication used at workplace

KU5. importance of creating healthy and cooperative work environment among the gangs of workers

KU6. different activities within the work area where interaction with other workers is required

KU7. applicable techniques of work, properties of materials used, tools and tackles used, safety standards that co-workers might need as per the requirement

KU8. importance of proper and effective communication and the expected adverse effects in case of failure relating to quality, timeliness, safety, risks at the construction project site

KU9. importance and need of supporting co-workers facing problems for the smooth functioning of work

KU10. the fundamental concept of gender equality

KU11. how to recognise and be sensitive to issues of disability, culture and gender

KU12. legislation, policies, and procedures relating to gender sensitivity and cultural diversity including their impact on the area of operation

Generic Skills (GS)

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

GS1. write in at least one language, preferably in the local language of the site

GS2. read the communication regarding work completion, materials used, tools and tackles used, the resource required, etc,

GS3. speak in one or more languages, preferably in one of the local language of the site

GS4. listen and follow instructions / communication shared by superiors/ co-workers regarding team requirements or interfaces during work processes

GS5. communicate orally and effectively with co-workers considering their educational and social background

GS6. decide on what information is to be shared with co-workers within the team or to the interfacing gang of workers

GS7. plan work and organize the required resources in coordination with team members

GS8. complete all assigned task in coordination with team members

GS9. take initiative in resolving issues among co-workers or report the same to superiors

GS10. ensure best ways of coordination among team members

GS11. evaluate the complexity of task and determine if any guidance is required from superiors

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Interact and communicate in an effective manner	**18**	**42**	**-**	**-**
PC1. pass on work related information/ requirement clearly to the team members	-	-	-	-
PC2. inform co-workers and superiors about any kind of deviations from work	-	-	-	-
PC3. report any unresolved problem to the supervisor immediately	-	-	-	-
PC4. obtain instructions from superiors and respond on the same	-	-	-	-
PC5. communicate to team members/subordinates for appropriate work technique and method	-	-	-	-
PC6. seek clarification and advice as per the requirement	-	-	-	-
Support co-workers to execute the project requirements	**6**	**14**	**-**	**-**
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	-	-	-	-
Practice inclusion	**6**	**14**	**-**	**-**
PC9. maintain cultural inclusivity at work place	-	-	-	-
PC10. maintain disability friendly work practices	-	-	-	-
PC11. follow gender neutral practices at workplace	-	-	-	-
PC12. address discriminatory and offensive behaviour in a professional manner as per organizational policy	-	-	-	-
NOS Total	**30**	**70**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	CON/N8001
NOS Name	Work effectively in a team to deliver desired results at the workplace
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Generic 2
NSQF Level	4
Credits	TBD
Version	6.0
Last Reviewed Date	31/03/2022
Next Review Date	31/03/2025
NSQC Clearance Date	31/03/2022

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

Description

This unit describes the knowledge and the skills required for an individual to plan and organize own work in order to meet expected outcome

Scope

The scope covers the following :

- Plan and prepare for work
- Organise required resources as per work plan
- Complete work as per the plan

Elements and Performance Criteria

Plan and prepare for work

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

PC1. identify the targets and timelines set by superiors

PC2. determine the work requirements corresponding to task(drawings/schedules/instructions/methodology), safety, tools and equipment prior to commencement of task

PC3. plan the work by analyzing the required outcomes, work procedures, allotted time, resource availability and known priorities

PC4. prepare the work areas in coordination with team members

PC5. plan for waste collection and disposal prior to and after completion of work

Organise required resources as per work plan

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

PC6. arrange the required manpower prior to commencement of work

PC7. organize the required materials, tools and tackles required for the task

Complete work as per the plan

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

PC8. engage allocated manpower in an appropriate manner

PC9. employ correct tools, tackles and equipment for the desired work

PC10. provide guidance to the subordinates to obtain desired outcome

PC11. use resources in an optimum manner to avoid any unnecessary wastage

PC12. use tools, tackles and equipment carefully to avoid damage

PC13. ensure the work processes adopted are in line with the specified standards and instructions

PC14. complete the work with the allocated resources within specified time

PC15. clean and organise the workplace after completion of task

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. importance of proper housekeeping including safe waste disposal
KU2. policies, procedures and work targets set by superiors
KU3. how to identify work activities that need to be planned and organized
KU4. how to determine the task requirements
KU5. how to determine the quality requirements related to the task
KU6. how to undertake all aspect of planning and organizing the task, including interpretation of task, reading drawing/schedules, arranging resources, reporting problems etc.
KU7. how to implement the planned activities
KU8. how to use available resources in a judicious and appropriate manner to minimize wastages or damage

Generic Skills (GS)

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

GS1. write in one or more language, preferably the local language at the site
GS2. read communication from co-workers, superiors and notices from other departments as per requirement of the level
GS3. speak in one or more language, preferably one of the local language at the site
GS4. follow communication shared by co-workers regarding standard work processes, resources available, timelines, etc.
GS5. communicate effectively with co-workers and subordinates
GS6. decide on what sequence is to be adopted for execution of work
GS7. plan and organize the materials, tools, tackles and equipment required to execute the work
GS8. complete all assigned task with proper planning and organizing
GS9. analyze areas of work which could result in a delay of work, wastage of material or damage to tools and tackles
GS10. evaluate potential solutions to minimize avoidable delays and wastages at the construction site

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Plan and prepare for work	**9**	**21**	**-**	**-**
PC1. identify the targets and timelines set by superiors	-	-	-	-
PC2. determine the work requirements corresponding to task(drawings/schedules/instructions/methodology), safety, tools and equipment prior to commencement of task	-	-	-	-
PC3. plan the work by analyzing the required outcomes, work procedures, allotted time, resource availability and known priorities	-	-	-	-
PC4. prepare the work areas in coordination with team members	-	-	-	-
PC5. plan for waste collection and disposal prior to and after completion of work	-	-	-	-
Organise required resources as per work plan	**6**	**14**	**-**	**-**
PC6. arrange the required manpower prior to commencement of work	-	-	-	-
PC7. organize the required materials, tools and tackles required for the task	-	-	-	-
Complete work as per the plan	**15**	**35**	**-**	**-**
PC8. engage allocated manpower in an appropriate manner	-	-	-	-
PC9. employ correct tools, tackles and equipment for the desired work	-	-	-	-
PC10. provide guidance to the subordinates to obtain desired outcome	-	-	-	-
PC11. use resources in an optimum manner to avoid any unnecessary wastage	-	-	-	-
PC12. use tools, tackles and equipment carefully to avoid damage	-	-	-	-
PC13. ensure the work processes adopted are in line with the specified standards and instructions	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC14. complete the work with the allocated resources within specified time	-	-	-	-
PC15. clean and organise the workplace after completion of task	-	-	-	-
NOS Total	**30**	**70**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	CON/N8002
NOS Name	Plan and organize work to meet expected outcomes
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Generic 2
NSQF Level	4
Credits	TBD
Version	5.0
Last Reviewed Date	31/03/2022
Next Review Date	31/03/2025
NSQC Clearance Date	31/03/2022

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

Description

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

Scope

The scope covers the following :

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

Elements and Performance Criteria

Follow safety norms as defined by the organization

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

PC1. identify and report any hazards, risks or breaches in site safety to the appropriate authority

PC2. follow emergency and evacuation procedures in case of accidents, fires, natural calamities

PC3. follow recommended safe practices in handling construction materials, including chemical and hazardous material whenever applicable

PC4. follow all the protocols and safety techniques conveyed during safety awareness programs like Tool Box Talks, safety demonstrations and mock drills conducted at the site

PC5. select and operate different types of fire extinguishers corresponding to various types of fires as per EHS guideline

PC6. identify near miss, unsafe condition and unsafe act

Adopt healthy & safe work practices

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

PC7. use appropriate Personal Protective Equipment (PPE) as per work requirements for : Head Protection, Ear protection, Fall Protection ,Foot Protection, Face and Eye Protection, Hand and Body Protection , and Respiratory Protection (if required)

PC8. handle all required tools, tackles, materials and equipment safely

PC9. follow safe disposal of waste, harmful and hazardous materials as per EHS guidelines

PC10. check and install all safety equipment as per standard guidelines

PC11. follow safety protocols and practices as laid down by site EHS department

PC12. obtain "height pass" clearance for working at heights

Implement good housekeeping practices

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

PC13. collect, segregate and deposit construction waste into appropriate containers based on their toxicity or hazardous nature

PC14. apply ergonomic principles wherever required

Follow infection control guidelines as per applicability

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

PC15. follow recommended personal hygiene, workplace hygiene and sanitization practices

PC16. clean and disinfect all materials, tools and supplies before and after use

PC17. report immediately to concerned authorities regarding signs and symptoms of illness of self and others

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. reporting procedures in cases of breaches or hazards for site safety, accidents, and emergency situations as per guidelines

KU2. types of safety hazards at construction sites

KU3. basic ergonomic principles as per applicability

KU4. the procedure for responding to accidents and other emergencies at site

KU5. use of appropriate personal protective equipment based on various working conditions

KU6. importance of handling tools, equipment, and materials as per applicable norms

KU7. effect of construction material on health and environments as per applicability

KU8. various environmental protection methods as per applicability

KU9. storage of waste including non-combustible scrap material and debris, combustible scrap material and debris, general construction waste and trash (non-toxic, non-hazardous), any other hazardous wastes and any other flammable wastes at the appropriate location

KU10. how to keep the workplace neat and tidy so as to be safe

KU11. how to use hazardous material in a safe and appropriate manner as per applicability

KU12. types of fire

KU13. procedure of operating different types of fire extinguishers

KU14. safety relevant to tools, tackles, and equipment as per applicability

KU15. housekeeping activities relevant to task

KU16. ways of transmission of infection

KU17. ways to manage infectious risks at the workplace

KU18. different methods of cleaning, disinfection, sterilization, and sanitization

KU19. symptoms of infection like fever, cough, redness, swelling, and inflammation

Generic Skills (GS)

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

GS1. write in at least one language, preferably in the local language of the site

GS2. fill safety formats for near miss, unsafe conditions and safety suggestions

GS3. read in one or more language, preferably in the local language of the site

GS4. speak in one or more language, preferably in one of the local language of the site

GS5. listen to instructions/communication shared by site EHS and superiors regarding site safety, and conducting the toolbox talk

GS6. identify potential safety risks and report to the appropriate authority

GS7. assess and analyze areas which may affect health, safety and environment protocol on the site

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Follow safety norms as defined by the organization	**6**	**14**	**-**	**-**
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. follow all the protocols and safety techniques conveyed during safety awareness programs like Tool Box Talks, safety demonstrations and mock drills conducted at the site	-	-	-	-
PC5. select and operate different types of fire extinguishers corresponding to various types of fires as per EHS guideline	-	-	-	-
PC6. identify near miss, unsafe condition and unsafe act	-	-	-	-
Adopt healthy & safe work practices	**15**	**35**	**-**	**-**
PC7. use appropriate Personal Protective Equipment (PPE) as per work requirements for : Head Protection, Ear protection, Fall Protection ,Foot Protection, Face and Eye Protection, Hand and Body Protection , and Respiratory Protection (if required)	-	-	-	-
PC8. handle all required tools, tackles, materials and equipment safely	-	-	-	-
PC9. follow safe disposal of waste, harmful and hazardous materials as per EHS guidelines	-	-	-	-
PC10. check and install all safety equipment as per standard guidelines	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC11. follow safety protocols and practices as laid down by site EHS department	-	-	-	-
PC12. obtain "height pass" clearance for working at heights	-	-	-	-
Implement good housekeeping practices	**6**	**14**	**-**	**-**
PC13. collect, segregate and deposit construction waste into appropriate containers based on their toxicity or hazardous nature	-	-	-	-
PC14. apply ergonomic principles wherever required	-	-	-	-
Follow infection control guidelines as per applicability	**3**	**7**	**-**	**-**
PC15. follow recommended personal hygiene, workplace hygiene and sanitization practices	-	-	-	-
PC16. clean and disinfect all materials, tools and supplies before and after use	-	-	-	-
PC17. report immediately to concerned authorities regarding signs and symptoms of illness of self and others	-	-	-	-
NOS Total	**30**	**70**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	CON/N9001
NOS Name	Work according to personal health, safety and environment protocols at construction site
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Generic Safety
NSQF Level	4
Credits	TBD
Version	6.0
Last Reviewed Date	31/03/2022
Next Review Date	31/03/2025
NSQC Clearance Date	31/03/2022

CON/N0146: Carry out brick bat coba waterproofing

Description

This unit describes the skills and knowledge required to carry out work for the brick bat coba waterproofing

Scope

The scope covers the following :

- Carry out brick bat coba waterproofing

Elements and Performance Criteria

• Carry out brick bat coba waterproofing

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

PC1. clean and wash the surface to be water proofed

PC2. ensure bricks are soaked overnight prior to laying a course

PC3. ensure all non-structural gaps are filled prior to laying brick bat course

PC4. identify and transfer required levels using appropriate tools

PC5. prepare a cement mortar of appropriate ratio adding waterproofing admixtures

PC6. apply and spread an even thickness of mortar on the surface

PC7. lay brick bat on the prepared mortar ensuring proper placement and uniform gaps between bricks

PC8. check horizontal and vertical alignment using appropriate tools

PC9. fill all gaps in brick bat using cement mortar

PC10. finish the top surface smooth with cement mortar prepared in specified proportion along with admixtures

PC11. mark and transfer required levels at a regular interval in order to maintain proper slope of finished surface in case of horizontal surface

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. standard practices for waterproofing works

KU2. safety rules and regulations for handling and storing relevant tools, equipment, and materials required for relevant works in accordance with organizational norms

KU3. importance of personal protection including the use of related safety gears & equipment in accordance with organizational norms

KU4. service request procedures for tools, materials and equipment as per organizational norms

KU5. procedure for maintenance of tools and equipment

KU6. preparation of the surface before the waterproofing

KU7. usage of various tools and equipment as per the waterproofing requirements of the surface such as: trowels, rollers, brushes, angle grinders, shovels, wheelbarrows, knives or cutting blades, hammers, brooms, vacuum cleaner etc.

KU8. procedure of laying brick bat coba waterproofing course

KU9. checks for water leakages

Generic Skills (GS)

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

GS1. write in at least one language, preferably in the local language of the site

GS2. read sketches/routine work drawings, instructions provided for the work, and various signboards, safety rules, safety tags, exit route information in one or more languages, preferably in the local language of the site

GS3. speak in one or more language, preferably one of the local language at the site

GS4. communicate orally and effectively with team members

GS5. analyze the safety aspect of the workplace

GS6. plan work and organize required resource effectively

GS7. complete work as per agreed time schedule and quality parameters

GS8. resolve any conflict within the teammates

GS9. evaluate the complexity of the tasks

GS10. identify any violation of safety norms during the work

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
• Carry out brick bat coba waterproofing	**30**	**70**	**-**	**-**
PC1. clean and wash the surface to be water proofed	-	-	-	-
PC2. ensure bricks are soaked overnight prior to laying a course	-	-	-	-
PC3. ensure all non-structural gaps are filled prior to laying brick bat course	-	-	-	-
PC4. identify and transfer required levels using appropriate tools	-	-	-	-
PC5. prepare a cement mortar of appropriate ratio adding waterproofing admixtures	-	-	-	-
PC6. apply and spread an even thickness of mortar on the surface	-	-	-	-
PC7. lay brick bat on the prepared mortar ensuring proper placement and uniform gaps between bricks	-	-	-	-
PC8. check horizontal and vertical alignment using appropriate tools	-	-	-	-
PC9. fill all gaps in brick bat using cement mortar	-	-	-	-
PC10. finish the top surface smooth with cement mortar prepared in specified proportion along with admixtures	-	-	-	-
PC11. mark and transfer required levels at a regular interval in order to maintain proper slope of finished surface in case of horizontal surface	-	-	-	-
NOS Total	**30**	**70**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	CON/N0146
NOS Name	Carry out brick bat coba waterproofing
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Masonry
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	31/03/2022
Next Review Date	31/03/2025
NSQC Clearance Date	31/03/2022

CON/N0147: Carry out IPS (Indian Patent Stone) flooring

Description

This unit describes the skills and knowledge required to work on IPS flooring

Scope

The scope covers the following :

- Carry out preparatory work prior to IPS flooring
- Check for line, level, and alignment
- Check the materials used for IPS flooring in case of manual mixing
- Check the materials used for IPS flooring in case of machine mixing
- Carry out IPS flooring

Elements and Performance Criteria

Carry out preparatory work prior to IPS flooring

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

PC1. inspect the work area prior to concreting, ensure leveling in case of any undulations observed on the surface prior to concreting

PC2. ensure surface is prepared appropriately and report any deviation in slope and alignment in PCC

PC3. report any gaps in formwork to avoid leakage

PC4. report any misalignment in formwork/reinforcement and ensure proper cover for reinforcement is provided

Check for line, level and alignment

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

PC5. mark reference level on the wall &transfer this marking to all floor locations using appropriate tools

PC6. mark flooring thickness level and provide dummy level dots at specified intervals for ensuring required slope

Check the materials used for IPS flooring in case of manual mixing

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

PC7. check the grade of cement prior to use in case of manual mixing

PC8. ensure fine aggregate is sieved as per grade requirement

PC9. check that concrete is mixed in appropriate proportion

Check the materials used for IPS flooring in case of machine mixing

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

PC10. check visually the concrete mix for usability and workability and notify superiors of the same

PC11. ensure specified concrete mix is used at allocated location

PC12. check that panels prepared are of specified size and type

Carry out IPS flooring

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

PC13. fix the glass, aluminum or brass strip in cement mortar with their tops at appropriate level and according to slope

PC14. ensure panels are made as per specified size

PC15. ensure concrete is poured in alternate panels/specified panels as per requirement

PC16. remove excess cement slurry and any marks on the surface

PC17. level the concrete surface with a straight edge and to the required finish with a wooden float / trowel

PC18. spread cement punning over the IPS concrete for smooth finish surface and allow it to soak into the concrete, as per requirement

PC19. provide construction joints and expansion joints as per requirement

PC20. carry out levelling of the poured concrete to the specified levels maintaining the required slope

PC21. ensure curing of the finished floor surface for the specified time

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. standard practices for IPS flooring

KU2. safety rules and regulations for handling and storing relevant tools, equipment, and materials required for relevant works in accordance with organizational norms

KU3. importance of personal protection including the use of related safety gears & equipment in accordance with organizational norms

KU4. service request procedures for tools, materials and equipment as per organizational norms

KU5. procedure for maintenance of tools and equipment

KU6. process to prepare the sub-base by watering and ramming

KU7. how to provide adequate slope in PCC (Plain Cement Concrete) in a base course

KU8. how to make reference levels and transfer the markings to all locations where flooring is to be done

KU9. various types and grades of cement used, effect of water /cement ratio and type of aggregates

KU10. different mix proportion/grade of concrete

KU11. sequence of concrete pouring and placing

KU12. manual mixing of concrete and nominal mix proportions

KU13. different reinforcement cover with respect to the size of the reinforcement bar

KU14. how to pour of concrete in alternate panels

KU15. how to avoid shrinkage cracks in concrete

KU16. various admixtures used in concreting

KU17. different types of vibrators, their influence area and use

KU18. construction and expansion joints

KU19. cutting tools for providing joints

KU20. final toweling process before the concrete is hardened

Generic Skills (GS)

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

GS1. write in at least one language, preferably in the local language of the site
GS2. read sketches/routine work drawings, instructions provided for the work, and various signboards, safety rules, safety tags, exit route information in one or more languages, preferably in the local language of the site
GS3. speak in one or more language, preferably one of the local language at the site
GS4. communicate orally and effectively with team members
GS5. analyze the safety aspect of the workplace
GS6. plan work and organize required resource effectively
GS7. complete work as per agreed time schedule and quality parameters
GS8. resolve any conflict within the teammates
GS9. evaluate the complexity of the tasks
GS10. identify any violation of safety norms during the work

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Carry out preparatory work prior to IPS flooring	**3**	**7**	**-**	**-**
PC1. inspect the work area prior to concreting, ensure leveling in case of any undulations observed on the surface prior to concreting	-	-	-	-
PC2. ensure surface is prepared appropriately and report any deviation in slope and alignment in PCC	-	-	-	-
PC3. report any gaps in formwork to avoid leakage	-	-	-	-
PC4. report any misalignment in formwork/reinforcement and ensure proper cover for reinforcement is provided	-	-	-	-
Check for line, level and alignment	**3**	**7**	**-**	**-**
PC5. mark reference level on the wall &transfer this marking to all floor locations using appropriate tools	-	-	-	-
PC6. mark flooring thickness level and provide dummy level dots at specified intervals for ensuring required slope	-	-	-	-
Check the materials used for IPS flooring in case of manual mixing	**3**	**7**	**-**	**-**
PC7. check the grade of cement prior to use in case of manual mixing	-	-	-	-
PC8. ensure fine aggregate is sieved as per grade requirement	-	-	-	-
PC9. check that concrete is mixed in appropriate proportion	-	-	-	-
Check the materials used for IPS flooring in case of machine mixing	**3**	**7**	**-**	**-**
PC10. check visually the concrete mix for usability and workability and notify superiors of the same	-	-	-	-
PC11. ensure specified concrete mix is used at allocated location	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC12. check that panels prepared are of specified size and type	-	-	-	-
Carry out IPS flooring	**18**	**42**	**-**	**-**
PC13. fix the glass, aluminum or brass strip in cement mortar with their tops at appropriate level and according to slope	-	-	-	-
PC14. ensure panels are made as per specified size	-	-	-	-
PC15. ensure concrete is poured in alternate panels/specified panels as per requirement	-	-	-	-
PC16. remove excess cement slurry and any marks on the surface	-	-	-	-
PC17. level the concrete surface with a straight edge and to the required finish with a wooden float / trowel	-	-	-	-
PC18. spread cement punning over the IPS concrete for smooth finish surface and allow it to soak into the concrete, as per requirement	-	-	-	-
PC19. provide construction joints and expansion joints as per requirement	-	-	-	-
PC20. carry out levelling of the poured concrete to the specified levels maintaining the required slope	-	-	-	-
PC21. ensure curing of the finished floor surface for the specified time	-	-	-	-
NOS Total	**30**	**70**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	CON/N0147
NOS Name	Carry out IPS (Indian Patent Stone) flooring
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Masonry
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	31/03/2022
Next Review Date	31/03/2025
NSQC Clearance Date	31/03/2022

CON/N0111: Apply plaster on internal & external surfaces of masonry & RCC structure

Description

This unit describes the skills and knowledge required for plastering on internal and external surfaces of Masonry & RCC structures

Scope

The scope covers the following :

- Carry out preparatory work before starting the plastering work
- Check material used for plastering
- Plaster internal & external masonry & RCC structures
- Check for line, level & alignment

Elements and Performance Criteria

Carry out preparatory work before starting the plastering work

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

PC1. read sketches for plastering work

PC2. select correct materials, tools, tackles and equipment for plastering

PC3. ensure that surface receiving plaster is prepared appropriately

PC4. set layouts as per the specification prior to start of plastering work

PC5. produce appropriate levels and make any grooves or lines on the surface as instructed

Check material used for plastering

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

PC6. ensure sieving of fine aggregate as per grade requirement

PC7. check the quality of surface to be plastered

PC8. check for quality and consistency of cement mortar mix

Plaster internal & external masonry & RCC structures

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

PC9. ensure that the correct tools and equipment are selected for plastering work as per requirement

PC10. moisten surface sufficiently before starting of the plastering work

PC11. ensure that cement mortar is mixed in specified proportion including additives if any

PC12. apply cement slurry on receiving surface uniformly

PC13. apply the plastering mix of specified thickness on the surface

PC14. finish the surface by using correct tools as per the required finish

PC15. check for horizontal & vertical alignment during and after plastering

Check for line , level & alignment

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

PC16. check for vertical and horizontal alignment using appropriate tools
PC17. check for slope or maintain falls of the floor
PC18. check for right angle at corner if required

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. standard practices for plastering works
KU2. safety rules and regulations for handling and storing relevant tools, equipment, and materials required for relevant works in accordance with organizational norms
KU3. importance of personal protection including the use of related safety gears & equipment in accordance with organizational norms
KU4. service request procedures for tools, materials and equipment as per organizational norms
KU5. procedure for maintenance of tools and equipment
KU6. sketches for all plastering work
KU7. basic principles of measurement
KU8. standard specification of all masonry tools and equipments ,their care and maintenance
KU9. how to use basic leveling tools in the masonry trade such as: Spirit level, water level plumb bob, line thread
KU10. how to select and use tools and equipments such as: Finishing Trowel, Plastering Corner Trowel, Plastering Trowels, Pre-worn permashape etc. Plasters Hawk, Plastering Float, Plastering Feather edges, Plastering Derbies Plastering Joint Knives and Spreaders, Plastering Sanders and Sheets Measuring tape/rule, floats, brushes, straight edge, shovels, wheelbarrows, hawks, square, buckets, spade, volume box, measuring can
KU11. gradation of sand for internal plasters
KU12. how to determine vertical and horizontal alignment using plumb bob to provide vertical datum lines for building measurements
KU13. how to continuously monitor the alignment of the plastering on the brick / block work using leveling tools
KU14. different types of plasters such as sand faced plaster, rough cast plaster pebbled cast plaster, smooth cast plaster
KU15. methods and techniques for plastering internal and external masonry and RCC structures
KU16. various mix proportion to be used and thickness of plastering to be done on internal and external surfaces

Generic Skills (GS)

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

GS1. write in at least one language, preferably in the local language of the site
GS2. read sketches/routine work drawings, instructions provided for the work, and various signboards, safety rules, safety tags, exit route information in one or more languages, preferably in the local language of the site

GS3. speak in one or more language, preferably one of the local language at the site
GS4. communicate orally and effectively with team members
GS5. analyze the safety aspect of the workplace
GS6. plan work and organize required resource effectively
GS7. complete work as per agreed time schedule and quality parameters
GS8. resolve any conflict within the teammates
GS9. evaluate the complexity of the tasks
GS10. identify any violation of safety norms during the work

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Carry out preparatory work before starting the plastering work	**3**	**7**	**-**	**-**
PC1. read sketches for plastering work	-	-	-	-
PC2. select correct materials, tools, tackles and equipment for plastering	-	-	-	-
PC3. ensure that surface receiving plaster is prepared appropriately	-	-	-	-
PC4. set layouts as per the specification prior to start of plastering work	-	-	-	-
PC5. produce appropriate levels and make any grooves or lines on the surface as instructed	-	-	-	-
Check material used for plastering	**6**	**14**	**-**	**-**
PC6. ensure sieving of fine aggregate as per grade requirement	-	-	-	-
PC7. check the quality of surface to be plastered	-	-	-	-
PC8. check for quality and consistency of cement mortar mix	-	-	-	-
Plaster internal & external masonry & RCC structures	**18**	**42**	**-**	**-**
PC9. ensure that the correct tools and equipment are selected for plastering work as per requirement	-	-	-	-
PC10. moisten surface sufficiently before starting of the plastering work	-	-	-	-
PC11. ensure that cement mortar is mixed in specified proportion including additives if any	-	-	-	-
PC12. apply cement slurry on receiving surface uniformly	-	-	-	-
PC13. apply the plastering mix of specified thickness on the surface	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC14. finish the surface by using correct tools as per the required finish	-	-	-	-
PC15. check for horizontal & vertical alignment during and after plastering	-	-	-	-
Check for line , level & alignment	**3**	**7**	**-**	**-**
PC16. check for vertical and horizontal alignment using appropriate tools	-	-	-	-
PC17. check for slope or maintain falls of the floor	-	-	-	-
PC18. check for right angle at corner if required	-	-	-	-
NOS Total	**30**	**70**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	CON/N0111
NOS Name	Apply plaster on internal & external surfaces of masonry & RCC structure
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Masonry
NSQF Level	4
Credits	TBD
Version	2.0
Last Reviewed Date	31/03/2022
Next Review Date	31/03/2025
NSQC Clearance Date	31/03/2022

CON/N0148: Carry out VDF (Vaccum dewatered floor) flooring

Description

This unit describes the skills and knowledge required to work on VDF flooring

Scope

The scope covers the following :

- Carry out preparatory work prior to VDF flooring
- Check for line, level and alignment.
- Check the materials used for VDF flooring in case of manual mixing
- Check the materials used for VDF flooring in case of machine mixing
- Carry out VDF flooring

Elements and Performance Criteria

Carry out preparatory work prior to VDF flooring

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

PC1. inspect the work area prior to concreting, ensure leveling in case of any undulations observed on the surface prior to concreting

PC2. ensure surface is prepared appropriately and report any deviation in slope and alignment in PCC

PC3. report any gaps in formwork to avoid leakage

PC4. report any misalignment in formwork/reinforcement and ensure proper cover for reinforcement is provided

Check for line, level and alignment

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

PC5. mark reference level on the wall &transfer this marking to all floor locations using appropriates tools

PC6. mark flooring thickness level and provide dummy level dots at specified intervals for ensuring required slope

Check the materials used for VDF flooring in case of manual mixing

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

PC7. check the grade of cement prior to use in case of manual mixing

PC8. ensure fine aggregate is sieved as per grade requirement

PC9. check that concrete is mixed in appropriate proportion

Check the materials used for VDF flooring in case of machine mixing

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

PC10. check visually the concrete mix for usability and workability and notify superiors of the same

PC11. ensure specified concrete mix is used at allocated location

PC12. check that panels prepared are of specified size and type

Carry out VDF Flooring work

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

PC13. level the surface and lay stone soling / boulder soling layer

PC14. lay the floor with slope maintained in PCC work above the stone soling

PC15. remove excess water from the top layer of wet concrete without removing cement of sand particles through vacuum de-watering machine

PC16. ensure floater work within green concrete surface

PC17. carry out Tremix flooring in specified panel on RCC floors ensuring intactness of rebar and cover

PC18. cut grooves on concrete at specified intervals for construction joints

PC19. provide expansion joints as per requirement

PC20. carry out curing of finished concrete as per specifications

PC21. ensure finished levels have required slope

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. standard practices for VDF florring

KU2. safety rules and regulations for handling and storing relevant tools, equipment, and materials required for relevant works in accordance with organizational norms

KU3. importance of personal protection including the use of related safety gears & equipment in accordance with organizational norms

KU4. service request procedures for tools, materials and equipment as per organizational norms

KU5. procedure for maintenance of tools and equipment

KU6. how to use all masonry tools along with some specialized tools for VDF flooring such as Vacuum de-watering Pump, Floater Machine, Double beam Screen Vibrator etc

KU7. process to prepare the sub-base by watering and ramming

KU8. how to provide an adequate slope in PCC (Plain Cement Concrete) in a base course

KU9. how to make reference levels and transfer the markings to all locations where flooring is to be done

KU10. various types and grades of cement used, effect of water /cement ratio and type of aggregates

KU11. different mix proportion/grade of concrete

KU12. sequence of concrete pouring and placing

KU13. manual mixing of concrete and nominal mix proportions

KU14. cover to reinforcement with respect to size of reinforcement

KU15. how to pour of concrete in alternate panels

KU16. how to avoid shrinkage cracks in concrete

KU17. various admixtures used in concreting

KU18. different types of vibrators, their influence area, and use

KU19. construction and expansion joints

KU20. cutting tools for providing joints

KU21. excess water removal process using Vacuum dewatered machine

KU22. hardener usage along with floater machine (if required) at the time of finishing the floor surface to increase abrasion resistance of the floor

KU23. how to provide space for narrow passage for operating float vibrator along a wall

Generic Skills (GS)

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

GS1. write in at least one language, preferably in the local language of the site

GS2. read sketches/routine work drawings, instructions provided for the work, and various signboards, safety rules, safety tags, exit route information in one or more languages, preferably in the local language of the site

GS3. speak in one or more language, preferably one of the local language at the site

GS4. communicate orally and effectively with team members

GS5. analyze the safety aspect of the workplace

GS6. plan work and organize required resource effectively

GS7. complete work as per agreed time schedule and quality parameters

GS8. resolve any conflict within the teammates

GS9. evaluate the complexity of the tasks

GS10. identify any violation of safety norms during the work

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Carry out preparatory work prior to VDF flooring	**3**	**7**	**-**	**-**
PC1. inspect the work area prior to concreting, ensure leveling in case of any undulations observed on the surface prior to concreting	-	-	-	-
PC2. ensure surface is prepared appropriately and report any deviation in slope and alignment in PCC	-	-	-	-
PC3. report any gaps in formwork to avoid leakage	-	-	-	-
PC4. report any misalignment in formwork/reinforcement and ensure proper cover for reinforcement is provided	-	-	-	-
Check for line, level and alignment	**3**	**7**	**-**	**-**
PC5. mark reference level on the wall &transfer this marking to all floor locations using appropriates tools	-	-	-	-
PC6. mark flooring thickness level and provide dummy level dots at specified intervals for ensuring required slope	-	-	-	-
Check the materials used for VDF flooring in case of manual mixing	**3**	**7**	**-**	**-**
PC7. check the grade of cement prior to use in case of manual mixing	-	-	-	-
PC8. ensure fine aggregate is sieved as per grade requirement	-	-	-	-
PC9. check that concrete is mixed in appropriate proportion	-	-	-	-
Check the materials used for VDF flooring in case of machine mixing	**3**	**7**	**-**	**-**
PC10. check visually the concrete mix for usability and workability and notify superiors of the same	-	-	-	-
PC11. ensure specified concrete mix is used at allocated location	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC12. check that panels prepared are of specified size and type	-	-	-	-
Carry out VDF Flooring work	**18**	**42**	**-**	**-**
PC13. level the surface and lay stone soling / boulder soling layer	-	-	-	-
PC14. lay the floor with slope maintained in PCC work above the stone soling	-	-	-	-
PC15. remove excess water from the top layer of wet concrete without removing cement of sand particles through vacuum de-watering machine	-	-	-	-
PC16. ensure floater work within green concrete surface	-	-	-	-
PC17. carry out Tremix flooring in specified panel on RCC floors ensuring intactness of rebar and cover	-	-	-	-
PC18. cut grooves on concrete at specified intervals for construction joints	-	-	-	-
PC19. provide expansion joints as per requirement	-	-	-	-
PC20. carry out curing of finished concrete as per specifications	-	-	-	-
PC21. ensure finished levels have required slope	-	-	-	-
NOS Total	**30**	**70**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	CON/N0148
NOS Name	Carry out VDF (Vaccum dewatered floor) flooring
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Masonry
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	31/03/2022
Next Review Date	31/03/2025
NSQC Clearance Date	31/03/2022

CON/N0113: Build structures using random rubble masonry

Description

This unit describes the skills and knowledge required to build structures using random rubble masonry

Scope

The scope covers the following :

- Carry out preparatory work for rubble masonry
- Check the material used for random rubble masonry
- Lay out coursed and un-coursed Random Rubble Masonry with undressed or hammer dressed stones
- Carry out pointing in stone masonry
- Lay out course of Dry Rubble Masonry
- Check for line, level and alignment

Elements and Performance Criteria

Carry out preparatory work for Rubble Masonry

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

PC1. ensure that the correct tools and tackles are selected for use in the rubble

PC2. estimate roughly the amount of materials required to complete a rubble masonry

PC3. ensure that the sub-base is prepared properly

PC4. ensure proper compaction of base prior to commencement of work

PC5. select the particular type of surface finish as per the site requirements

PC6. prepare the sides, edges, bed of stone to ensure proper bonding of stones

PC7. mix mortar for rubble masonry in specified ratio including dry & wet mix

PC8. identify and transfer required levels using appropriate tools prior to rubble

Check the material used for random rubble masonry

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

PC9. check for workability and proportion of cement mortar

PC10. check the quality of stones used in random rubble masonry

PC11. ensure proper soaking of stones prior to laying

Lay out coursed and un coursed Random Rubble Masonry with undressed or hammer dressed stones

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

PC12. work with both undressed and hammer dressed stones as per the requirement of the construction site

PC13. lay stones to build wall of un-course random rubble or course random rubble as per instruction

PC14. knock off all projecting corners of the laid stones with joints filled and flushed as per the requirements of the site for the un-course random rubble masonry

PC15. use large stones at the corners and at jambs to increase the strength as per the un-course random rubble masonry requirements

PC16. ensure proper curing of rubble masonry structure

Carry out pointing in stone masonry

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

PC17. perform raking of joints as specified prior to drying of bonding mortar

PC18. ensure that joints are cleaned and surface is wet prior to pointing

PC19. ensure lime/cement mortar for pointing is prepared as per specification

PC20. fill joints with appropriate mortar to obtain specified type of pointing

PC21. carry out various types of pointing works as per specification using appropriate tools and technique

PC22. ensure proper curing of pointing

Lay out course of Dry Rubble Masonry

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

PC23. lay and fix stones for construction of walls without use of mortar

PC24. knock off all projecting corner

Check for line, level and alignment

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

PC25. mark and transfer required levels at a regular interval in order to maintain proper slope of finished surface in case of horizontal surface

PC26. check horizontal and vertical alignment using appropriate tools

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. standard practices for random rubble masonry work

KU2. safety rules and regulations for handling and storing relevant tools, equipment, and materials required for relevant works in accordance with organizational norms

KU3. importance of personal protection including the use of related safety gears & equipment in accordance with organizational norms

KU4. service request procedures for tools, materials and equipment as per organizational norms

KU5. procedure for maintenance of tools and equipment

KU6. specifications of all tools and equipments required for rubble masonry along with care and maintenance such as : Tile cutters and scribers, masonry drill bits, measuring tape/rule, trowels, straight edge, levels, wet saw, scrapers, etc

KU7. basic principle of measurement

KU8. methods of decorative finishes and basic carving work required in the rubble masonry

KU9. different types of plasters and mortar requirements for the rubble masonry works as per the specification and aesthetic requirements

KU10. various types of cement paste / adhesives used on the base

KU11. various types of stones used in rubble masonry

KU12. basic methods of stone work and finishing in rubble masonry

KU13. various techniques / procedures to work with undressed and hammer dressed stones used for un-course and course random rubble masonry as per the aesthetic requirements of the site

KU14. various types of pointing in stone masonry and its application including flush pointing weathered pointing ribbon pointing

KU15. different mortar mix used for pointing

KU16. various pointing and raking tools and techniques and method of pointing a joint as per specification

KU17. reference levels on the wall and its importance

Generic Skills (GS)

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

GS1. write in at least one language, preferably in the local language of the site

GS2. read sketches/routine work drawings, instructions provided for the work, and various signboards, safety rules, safety tags, exit route information in one or more languages, preferably in the local language of the site

GS3. speak in one or more language, preferably one of the local language at the site

GS4. communicate orally and efficiently with team member

GS5. analyze the safety aspect of the workplace

GS6. plan work and organize required resource effectively

GS7. complete work as per agreed time schedule and quality parameters

GS8. resolve any conflict within the teammates

GS9. evaluate the complexity of the tasks

GS10. identify any violation of safety norms during the work

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Carry out preparatory work for Rubble Masonry	**3**	**7**	**-**	**-**
PC1. ensure that the correct tools and tackles are selected for use in the rubble	-	-	-	-
PC2. estimate roughly the amount of materials required to complete a rubble masonry	-	-	-	-
PC3. ensure that the sub-base is prepared properly	-	-	-	-
PC4. ensure proper compaction of base prior to commencement of work	-	-	-	-
PC5. select the particular type of surface finish as per the site requirements	-	-	-	-
PC6. prepare the sides, edges, bed of stone to ensure proper bonding of stones	-	-	-	-
PC7. mix mortar for rubble masonry in specified ratio including dry & wet mix	-	-	-	-
PC8. identify and transfer required levels using appropriate tools prior to rubble	-	-	-	-
Check the material used for random rubble masonry	**3**	**7**	**-**	**-**
PC9. check for workability and proportion of cement mortar	-	-	-	-
PC10. check the quality of stones used in random rubble masonry	-	-	-	-
PC11. ensure proper soaking of stones prior to laying	-	-	-	-
Lay out coursed and un coursed Random Rubble Masonry with undressed or hammer dressed stones	**12**	**28**	**-**	**-**
PC12. work with both undressed and hammer dressed stones as per the requirement of the construction site	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC13. lay stones to build wall of un-course random rubble or course random rubble as per instruction	-	-	-	-
PC14. knock off all projecting corners of the laid stones with joints filled and flushed as per the requirements of the site for the un-course random rubble masonry	-	-	-	-
PC15. use large stones at the corners and at jambs to increase the strength as per the un-course random rubble masonry requirements	-	-	-	-
PC16. ensure proper curing of rubble masonry structure	-	-	-	-
Carry out pointing in stone masonry	**6**	**14**	**-**	**-**
PC17. perform raking of joints as specified prior to drying of bonding mortar	-	-	-	-
PC18. ensure that joints are cleaned and surface is wet prior to pointing	-	-	-	-
PC19. ensure lime/cement mortar for pointing is prepared as per specification	-	-	-	-
PC20. fill joints with appropriate mortar to obtain specified type of pointing	-	-	-	-
PC21. carry out various types of pointing works as per specification using appropriate tools and technique	-	-	-	-
PC22. ensure proper curing of pointing	-	-	-	-
Lay out course of Dry Rubble Masonry	**3**	**7**	**-**	**-**
PC23. lay and fix stones for construction of walls without use of mortar	-	-	-	-
PC24. knock off all projecting corner	-	-	-	-
Check for line, level and alignment	**3**	**7**	**-**	**-**
PC25. mark and transfer required levels at a regular interval in order to maintain proper slope of finished surface in case of horizontal surface	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC26. check horizontal and vertical alignment using appropriate tools	-	-	-	-
NOS Total	**30**	**70**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	CON/N0113
NOS Name	Build structures using random rubble masonry
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Masonry
NSQF Level	4
Credits	TBD
Version	2.0
Last Reviewed Date	31/03/2022
Next Review Date	31/03/2025
NSQC Clearance Date	31/03/2022

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)/ Element 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/ Element.

2. The assessment for the knowledge part will be based on knowledge bank of questions created by Assessment Bodies subject to approval by SSC

3. Individual assessment agencies will create unique question papers for knowledge/theory part for assessment of candidates as per assessment criteria given below

4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on assessment criteria.

5. The passing percentage for each QP will be 70%. To pass the Qualification Pack, every trainee should score a minimum of 70% individually in each NOS.

6. The Assessor shall check the final outcome of the practices while evaluating the steps performed to achieve the final outcome.

7. The trainee shall be provided with a chance to repeat the test to correct his procedures in case of improper performance, with a deduction of marks for each iteration.

8. After the certain number of iteration as decided by SSC the trainee is marked as fail, scoring zero marks for the procedure for the practical activity.

9. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack within the specified timeframe set by SSC.

10. Minimum duration of Assessment of each QP shall be of 4hrs/trainee.

Minimum Aggregate Passing % at QP Level : 70

(**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/N0143.Mark the layout for brick/block works	30	70	-	-	100	15
CON/N0144.Carry out brick laying work	30	70	-	-	100	20
CON/N0145.Carry out block laying work	30	70	-	-	100	15
CON/N8001.Work effectively in a team to deliver desired results at the workplace	30	70	-	-	100	5
CON/N8002.Plan and organize work to meet expected outcomes	30	70	-	-	100	5
CON/N9001.Work according to personal health, safety and environment protocols at construction site	30	70	-	-	100	10

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
Total	**180**	**420**	**-**	**-**	**600**	**70**

Elective: 1 General

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
CON/N0146.Carry out brick bat coba waterproofing	30	70	-	-	100	15
CON/N0147.Carry out IPS (Indian Patent Stone) flooring	30	70	-	-	100	15
Total	**60**	**140**	**0**	**0**	**200**	**30**

Elective: 2 Plastering

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
CON/N0111.Execute plaster on internal & external surfaces of masonry & RCC structure	30	70	-	-	100	30
Total	**30**	**70**	**0**	**0**	**100**	**30**

Optional: 1 VDF flooring

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
CON/N0148.Carry out VDF (Vaccum dewatered floor) flooring	30	70	-	-	100	15
Total	**30**	**70**	**0**	**0**	**100**	**15**

Optional: 2 Random rubble works

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
CON/N0113.Build structures using random rubble masonry	30	70	-	-	100	15
Total	**30**	**70**	**0**	**0**	**100**	**15**

Acronyms

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

Glossary

Sector	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Occupation	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the Knowledge and Understanding (KU) they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Performance Criteria (PC)	Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.
National Occupational Standards (NOS)	NOS are occupational standards which apply uniquely in the Indian context.
Qualifications Pack (QP)	QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.
Unit Code	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'
Unit Title	Unit title gives a clear overall statement about what the incumbent should be able to do.
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.
Scope	Scope is a set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on quality of performance required.

Knowledge and Understanding (KU)	Knowledge and Understanding (KU) are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard.
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.