Assessment Guide – Mason General – L4





Sector: Construction

Occupation: Masonry

Reference id: CON/Q0103 ver. 1.0





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1. Qualification structure

To achieve full certification as a Mason General, trainees must complete all **eight** units, attempt and pass assessments on practical skills, viva and multiple choice synoptic test.

SI. no	Unit No.	Title	Assessment method
001	CON/N0110	Construct masonry structures using brick / block	Assessment of the practical skill of trainee would be based on the competency to build masonry structures using brick or block. Assessment of the knowledge part would be done by conducting written test, viva-voce or through observation while carrying out practical exercise.
002	CON/N0111	Execute plaster on internal & external Masonry	Assessment of the practical skill of trainee would be based on the competency to perform plastering for internal and external masonry wall. Assessment of the knowledge part would be done by conducting written test, viva-voce or through observation while carrying out practical exercise.
003	CON/N0112	Carry out waterproofing work for structures using cementitious materials	Assessment of the practical skill of trainee would be based on the competency to perform waterproofing work for structures using cementitious materials. Assessment of the knowledge part would be done by conducting written test, viva-voce or through observation while carrying out practical exercise.
004	CON/N0113	Build structures using random rubble masonry	Assessment of the practical skill of trainee would be based on the competency to build structures using random rubble masonry. Assessment of the knowledge part would be done by conducting written test, viva-voce or through observation while carrying out practical exercise
005	CON/N0114	Carry out IPS / Tre mix flooring	Assessment of the practical skill of trainee would be based on the competency to carry out IPS / Tre mix flooring. Assessment of the knowledge part would be done by conducting written test, viva-voce or through observation while carrying out practical exercise
006	CON/N8001	Work effectively in a team to deliver desired results at the	Assessment for the practical skill part should be based on the





		workplace	competency of the trainee to work effectively in a team including proper reporting, communication, documentation, problem solving etc. Technical and professional knowledge should be judged on the basis of theory, viva-voice or through observation.
007	CON/N8002	Plan and organize work to meet expected outcomes	Assessment of the practical skill of trainee would be based on the competency of effective planning and organizing to meet expected outcomes. Assessment of the knowledge part would be done by conducting written test, viva-voce or through observation while carrying out practical exercise.
008	CON/N9001	Work according to personal health, safety and environment protocol at construction site	Assessment for the practical skill part should be based on the competency of the trainee to demonstrate PPE, identify and report hazards, pollution control, and safety standards based on the type of activity. Technical and professional knowledge should be judged on the basis of theory, viva-voice or through observation.





2. Guidance for assessors

This qualification provides the performance criteria, skills and knowledge required to perform for the position of a Mason General at Level 4 in the Construction Sector. The role is referred to as 'Mason General'.

Brief job description: Mason General is responsible for performing routine masonry works such as brickwork, block work, laying paver blocks and random rubble masonry works. It also includes plastering with simple finishes by using appropriate tools and equipment and as per the specified standards with dimensional accuracy. The individual is also responsible for IPS & Tre mix flooring works and cementitious waterproofing works.

Personal attributes: The individual is expected to be physically fit and should be able to work across various locations withstanding extreme weather/site conditions while working at any construction site. The person must be able to perform efficiently within a team, handle the various masonry tools and materials and work responsibly.

Introduction to assessments:

Trainees will be able to make an informed decision about their aptitude for work in this sector with an awareness of the options for career development.

The emphasis is on 'learning-by-doing' and practical demonstration of skills and knowledge based on the performance criteria. For this reason, trainees are required to complete a number of assignments to show their attainment of practical skills, viva and underpinning knowledge.

Overview of the assessments

The weightage of skill/performance assessment is 80% and for knowledge and understanding is 20% for each NOS.

The assessment consists of two categories:

- 1. Performance /Skill Assessment
- 2. Knowledge Assessment

Mode of Assessment

- 1. Demonstration/Practical for Performance /Skill Assessment
- 2. Synoptic multiple choice question test.
- 3. Viva For Knowledge Assessment

Grading and weightage for assessments

Trainees are graded Pass or Fail.

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.

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SI. no	Type of assessment	SI. no
1.	Skill assessment by practical observation	80
2.	Knowledge assessment by synoptic MCQ test	12
3.	Knowledge assessment by viva	8

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2.1 Performance/Skill Assessments

The performance/skill assessment will be conducted through demonstration/practical **Demonstration/Practical Assessment**

There will be **five** practical task for core NOS (i.e. N0110 to N0114) which the trainee must attempt and demonstrate the occupational skills acquired to pass. Also the practical skill for NOS – N8001, N8002 and N9001 would be judged while carrying out practical task for core NOSs. Practical assessment is externally set and externally marked.

Trainees must attempt and pass the practical test which is assessed through a given task. The basis for practical task is the performance criteria checklist given in section 5.

The practical task is of **5 hours 30 minutes** duration (per trainee). The trainee has to score **448 marks** to pass the practical test. The grading criteria are defined below.

Grading criteria for Performance/Skill Assessments

NOS	Title	Performance Assessment Duration (Minutes)	Min. passing marks out of 80	Assessment Result (Total Passing Marks)
CON/N0110	Construct masonry structures using brick/block	60	56	
CON/N0111	Execute plaster on internal & external Masonry	45	56	
CON/N0112	Carry out waterproofing work for structures using cementitious materials	75	56	
CON/N0113	Build structures using random rubble masonry	60	56	448≥ Pass
CON/N0114	Carry out IPS / Tre mix flooring	60	56	4462 Pass 448< Fail
CON/N8001	Work effectively in a team to deliver desired results at the workplace	*	56	
CON/N8002	Plan and organize work to meet expected outcomes	*	56	
CON/N9001	Work according to personal health, safety and environment protocol at construction site	30	56	
Total		5 hr 30 min	448/640	





The assessment will be conducted in a simulated working environment. Due to this fact, the assessors must note that the naturally occurring evidence of competence is unavailable or infrequent. Simulation must be undertaken in a Realistic Working Environment which provides an environment that replicates the key characteristics of the workplace in which the skill to be assessed is normally employed.

This assessment guide has a section for trainees-Section 3. For each assessment, the marking and grading criteria are intended only for faculty and assessors.

Scheduling of the practical task assessments is flexible but to retain integrity of the assessment, they should be carried out as closely as possible to the written assessments.

Trainees are **not** permitted to use the Performance criteria checklist to work when completing the practical tasks but may familiarise themselves with it prior to an assessment.

Introducing the practical assessment to trainees

It will be beneficial to take trainees through what is required in the practical assessments and the way in which each part will be graded. Trainees should have an opportunity to familiarise themselves with the way the tasks are graded.

Trainees may refer to their faculty for guidance on parts of the practical assignments only, though they should be aware that, especially for the practical assessments, the amount of guidance and support they are given may be reflected in the feedback and performance.

2.2 Knowledge Assessment

The knowledge assessments are conducted through written test and viva.

1. Synoptic multiple choice question (MCQ) test

Synoptic test is an MCQ (Multiple Choice Question) test to assess the underpinning knowledge. The synoptic MCQ tests are externally set and externally marked. This test is to be taken by the trainee after completion of all the units under controlled and invigilated conditions as closed-book test under the supervision of an assessor. Trainees can only achieve whole marks; half marks for partially answered questions are not permitted. Selection of two or more options will be marked as wrong. The answers should to be marked by pen only.

Synoptic test is of **90 minutes** duration and carries **96 marks for 8 NOS**. The test may be conducted by the assessor in the oral mode, if required, considering the lack of reading and comprehending acumen (skills) of trainees. In such cases, the assessor will mention it on top of the MCQ submitted.

2. Viva

Trainees are required to take the viva test **along with** their practical observation test which is an extended part of the practical observation and assessment. Viva test is of **30 minutes** duration per learner and carry **64 Marks**. The viva assessments are externally set and externally marked. For further guidance on viva, assessors can refer to *Section 5 Viva Guidance*.

The trainee has to score **112 marks** to pass the Knowledge assessment test.

The grading criteria is as defined below





Grading criteria for Knowledge assessment

NOS No.	Duration of Assessment	Know Asses	_	Min Passing marks	Assessment Result	
	(Minutes)	MCQ test	Viva		(Total Passing Marks	
CON/N0110		12	8	14		
CON/N0111		12	8	14		
CON/N0112		12	8	14	> 110 Daga	
CON/N0113	120	12	8	14	≥ 112-Pass	
CON/N0114	120	12	8	14	< 112-Fail	
CON/N8001		12	8	14		
CON/N8002		12	8	14		
CON/N9001		12	8	14		
Total	120			112/160		

2.2 Question papers for synoptic test

The question paper of the synoptic test is a confidential document. It will be held under the custody of Assessment body. Every assessment body should prepare the question papers and get it approved from CSDCI. The centres need to follow the indenting process to obtain the question paper to administer the test.

2.3 Authenticity

Centres are reminded to check for authenticity of work where trainees may be using texts and the internet to complete tasks.

2.4 Feedback

Assessors must provide feedback on every occasion when a skills observation takes place.

2.5 Trainee records of coursework

Trainees should be encouraged to keep their work carefully in a portfolio or scrapbook. This may be an unfamiliar form of record keeping for some but it is a good discipline which will benefit them when they progress in their learning and training.

2.6 Codes of practice

Safe working practices, health and safety and codes of practice associated with the industry must always be adhered to.

2.7 Health and safety

The requirement to follow safe working practices is an integral part of all assessments and it is the responsibility of centres to ensure that all relevant health and safety requirements are in place before trainees start practical assessments.

Should a trainee fail to follow health and safety practice and procedures during an assessment, the assessment must be stopped and the trainee advised of the reasons why. In case of doubts, guidance should be sought from the SSC.

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2.8 Verification of assignments

By using marking checklists, verifiers can check that evidence for an assignment is complete and can ensure that allocation of marks has been fair and beyond dispute.

2.9 Internal quality assurance

Approved centres must have effective quality assurance systems to ensure optimum delivery and assessment of qualifications.

Quality assurance includes initial centre approval, qualification approval and the centre's own internal procedures for monitoring quality. Centres are responsible for internal quality assurance and CSDCI and Assessment body are jointly responsible for external quality assurance.

Full details and guidance on the internal and external quality assurance requirements and procedures, are provided by CSDCI from time to time.

The Assessment bodies are required to retain copies of trainees' assessment records and photographic evidence (in presence of trainee performing task) for three years after assessment.

2.10 Evidence Collection by the Assessor

- 1. The assessor needs to collect a copy of the attendance for the training done. The attendance sheet needs to be signed by the Training Centre Head.
- 2. The centre head also needs to declare that all the students appearing in the assessments have a minimum attendance of 80% for the training.
- 3. The assessor needs to verify the authenticity of the candidate by checking the photo ID card issued by the institute as well as any one Photo ID card issued by the Central/State Government. The same needs to be mentioned in the attendance sheet. Where ever required, the assessor can authenticate and cross verify trainee's credentials in the enrolment form.
- 4. The assessor needs to take a group photograph of all the students along with the assessor standing in the middle and with the centre name/banner at the back, as evidence.
- 5. The assessor needs to carry a camera to click photographs of the trainees working on the job and giving theory exam as evidence.
- 6. The assessor also needs to carry a photo ID card.
- Assessment Evidence Form (provided after the practical marks sheet), the assessor should place the final photographic evidence in the space provided as evidence, from appropriate angels/sides of the final job piece submitted.





3. Trainee guidance

3.1 Information for trainees

The assessment requires a trainee to perform a combination of tasks as given below: The trainee will be required to:

- Demonstrate the occupational skills and competencies as mentioned in each NOS.
- Demonstrate knowledge and understanding skills as mentioned in each NOS.

Before the final assessments

The training partner (TP) will intimate that the trainees are ready for the assessment. The date and time of assessment would be intimated by CSDCI.

The trainee is required to reach the assessment venue at the scheduled date and time. TP is required to circulate/download the information regarding the assessment to the trainee. Failure to reach the assessment venue for the theory or the practical test as per the schedule would be considered absent. In exceptional cases, an assessor can give a maximum of half hour concession time for late coming.

The trainee is required to carry their Institutes photo ID card as well as a government issued photo ID card for verification on all days of assessments.

Any misbehaviour/unethical practice by a trainee would lead to disqualification of the trainee.

The assessment consists of two categories:

- 1. Knowledge/theory assessment
- 2. Performance /skill assessment

The first day of assessment will have the knowledge/theory test followed by practical and viva in smaller batches (20-30 trainee).

Assessment brief

Details of the two categories of assessments are mentioned below.

1. Theory (Synoptic multiple choice question)

Synoptic test is a Multiple Choice Question (MCQ) test to assess the underpinning knowledge and is to be taken by the trainee at the start of the assessment under controlled and invigilated conditions as a closed-book test.

The synoptic test comprise of 50 questions of 90 minutes duration.

2. Viva

Trainees are required to take the viva test along with their practical observation test which is an extended part of the practical observation and assessment. Viva test is of **30 minutes** duration per learner and carry 64 Marks.

A trainee has to score at least 112 marks to pass the knowledge assessment.





Grading criteria for knowledge assessments

NOS No.	Duration of assessment (minutes)		rledge sment	Min passing marks	Assessment result (total passing marks)
		MCQ test	Viva		
CON/N0110		12	8	14	
CON/N0111		12	8	14	
CON/N0112		12	8	14	
CON/N0113	120	12	8	14	≥ 112 - Pass
CON/N0114	120	12	8	14	< 112 - Fail
CON/N8001		12	8	14	
CON/N8002		12	8	14	
CON/N9001		12	8	14	
Total	120 minutes			112/160	

3. Performance/skill assessments

Trainees will be briefed on the practical observation and checklist to familiarise them on observation methodology. The trainees would be assessed on their working as well as their final product. Trainees are suggested to read the Qualification Pack to familiarise on Performance Criteria, Knowledge, Understanding and Skills.

The practical task is for **5 hours and 30 minutes per trainee**. A trainee has to score at least **448 marks** to pass the practical observation test.

Grading criteria for Performance/Skill Assessments

NOS	Title	Performance assessment duration (minutes)	Minimum passing marks out of 80	Assessment result (total passing marks)
CON/N0110	Construct masonry structures using brick/block	60	56	
CON/N0111	Execute plaster on internal and external Masonry	45	56	
CON/N0112	Carry out waterproofing work for structures using cementitious materials	75	56	
CON/N0113	Build structures using random rubble masonry	60	56	448≥ Pass 448< Fail
CON/N0114	Carry out IPS / Tre mix flooring	60	56	
CON/N8001	Work effectively in a team to deliver desired results at the workplace	*	56	
CON/N8002	Plan and organize work to meet expected outcomes	*	56	
CON/N9001	Work according to personal health, safety and environment protocol at construction site	30	56	
	Total	5 hr 30 min	448/640	





4. Assessments

Assessments for the job role of Mason General are conducted to gauge and assess the trainees' competencies and professional expertise as well as their skill and knowledge in the specified area (Masonry).

During the practical task, trainees will be assessed on their workmanship, quality of finished product, time management, etc., based on the performance criteria (PC), knowledge and understanding and their professional and soft skills as specified in the qualification pack. They will be graded for all their assessments based on the approved assessment strategy which is signed off by CSDCI.

The performance criteria checklist as a guide for all qualifications are given in section 5.0. Assessment tools in the form of a sample set of practical, theory and viva questions for each NOS is given as a guide in section 6 to 7.The assessment evidence, overall summary and NOS wise summary is given in section 8 to 10.





5. Performance criteria checklist

Mason Gen	eral	
1. Learner N		
2. Enrolmer		
	o assessors: or must exhibit the performance criteria checklist to the learner	s hoforo
	mencement of the practical and explain them how the learners	
	d and graded during the practical assessment. However the lea	
	allowed to use this checklist during the course of the assessme	
task.		
	or must ensure that all the tools listed in the "List of tools" are	made
	e by the centre to every learner being assessed.	Manda
Practical	Details	Marks
CON/N0110	: Construct masonry structures using brick / block	
1	PC1. Read and interpret the basic working drawings / sketches	
	before the commencement of brick / block work:	
	Interpret the information given in the working drawing like,	
	length, height and width of foundation, wall, door and window	
	location, architectural finishing, location of service components like, plumbing, fire, electrical etc.	
	PC2. Ensure tools are in working condition:	
	Select and check the condition of tools like, trowel, hammer,	
	straight edge, try square, spirit level, plumb bob, measuring	
	tape, etc.	
	PC3. Set out the layouts as per instructions from superiors:	
	Mark layout as per the drawing using red oxide over the floor.	
	PC4. Check for adequate roughness/wetting of surface:	
	Perform visual checks for assessing roughness of surface. If	
	found inadequate roughness, then carry out roughening of surface	
	 Chip and remove dead concrete using point/ flat chisel. Rough the surface using hacking hammer. 	
	 Spray water and wet the surface before laying mortar. 	
	PC5. Identify and transfer required levels using appropriate	
	tools:	
	Transfer finished floor level from standard reference level	
	using tube level.	
	Mark reference level 300 mm above from the finished floor	
	level for all the corners using permanent marker or paint.	
	PC6. Visual check for quality of bricks / blocks prior to use:	
	Carry out visual inspection of bricks for over burnt, under burnt, size, colour and any damages.	
	burnt, size, colour and any damages. PC7. Ensure fine aggregate is sieved as per grade requirement:	
	 Ensure that the fine aggregate is sieved as per grade requirement. Ensure that the fine aggregate is sieved through 2.36 mm 	
	sieve (square opening) before using it.	
	PC8. Ensure bricks/blocks are soaked prior to use:	
	Ensure bricks are soaked at least two hour before the laying	
	work starts.	





	PC9. Select appropriate tools and equipment as per the tasks at	
1	requirement such as:	
	Different types of trowels (brick trowel, bucket trowel,	
	corner trowel, etc.	
	Mason's hammer Displaying phisple	
	Blocking chisel Maching homeon	
	Mashing hammer Laistana	
	Jointers Plant to be to	
	Plumb bob Onicit Local	
	Spirit level Transporter	
	Try square Straight adds	
	Straight edge Magaza line and nin	
	Masons line and pin Float (wooden/matel), etc.	
<u> </u>	Float (wooden/ metal). etc. PC10. Proofs bright to required above and size using engrapriets.	
	PC10. Break bricks to required shape and size using appropriate tools:	
	Mark on full brick where it needs to be cut.	
	 Cut bricks using brick chisel and hammer. 	
	PC11. Estimate the quantity of raw material required:	
	 Calculate the quantity of raw materials required to perform 	
'	the task using appropriate formula for brick, sand and	
	cement.	
	PC12. Lay and fix bricks / blocks as per specification within	
	tolerance limit using appropriate mortar/adhesive as per	
	applicability:	
	PC13. Maintain that rise of brick work / block work is in line &	
	level	
	PC15. Maintain required level and specified slope for	
	construction	
	PC16. Check vertical and horizontal alignment using appropriate	
	tools PC17. Maintain line and level of each course of brickwork using	
	wooden / aluminium straight edge sections	
	 Spread 10mm mortar over the surface to build brick courses. 	
	 Lay corner bricks and check for plumb, alignment and level. 	
	Tie masons line to the both corner bricks and lay bricks from	
	one corner to other corner.	
	Fill mortar between the gap using trowels.	
•	Ensure brick closer wherever required as per the drawing.	
•	Avoid vertical joints by ensuring even and odd courses	
	alternatively.	
•	Check for plumb, alignment and level at every successive	
	courses.	
_	Rake out loose mortar in the joint.	
	PC14. Ensure proper curing of constructed masonry structure:	
	 Write date on constructed wall to ensure proper curing. 	
	 Ensure continuous curing for at least 7 days. 	
	PC18. Set out 90° corners using builders square or 3-4-5	
1	method and check right angle:	
•	Place builder square between the corner of the two wall and	
	check the right angle.	
	Set 90° using 3, 4, 5 method and check the right angel.	





PC19. Perform proper pointing and raking of joint to obtain desired surface for exposed brick work:

PC21. Ensure lime/cement mortar for pointing is prepared as per specification

PC22. Fill joints with appropriate mortar to obtain specified type of pointing

PC23. Carry out various types of pointing works as per specification using appropriate tools and technique PC24. Ensure proper curing of pointing

- Rake out mortar joint for at least 15 to 20mm.
- Clean and wet the mortar joint.
- Apply fresh mortar with required ratio.
- Do pointing using required tool.
- Carryout following pointing.
 - Flush
 - Grooved
 - Recessed
 - Weathered
 - Struck
 - Raked
- Clean brick surface using brush or sponge.
- Cure pointing work for 7 days.

Assessor to ask Viva questions to assess the practical skill

PC20. Ensure proper bonding with old and new surface

- Rake loose/dry mortar and wash the surface with water
- Apply bonding agent/cement slurry on old surface.
- Apply rich cement mortar and carry out necessary pointing.
- Remove spilled mortar and clean surface using west sponge or brush.
- Cure pointing for at least 7 days.

Assessor to ask Viva questions to assess the practical skill

PC25. Maintain set out of tread and riser of staircase as per drawing/instruction:

- Mark lay out as per the drawing.
- Transfer level from reference level
- Lay masonry and complete the first step to required height (150mm).
- Mark second thread (300mm) and riser over the first step and carryout the masonry.
- Repeat the process till the required number of treads and riser achieved.

Assessor to ask Viva questions to assess the practical skill

PC26. Maintain masonry works as per required bond, alignment and plumb

- Spread 10mm mortar over the surface to build brick courses.
- Lay corner bricks and check for plumb, alignment and level.
- Tie masons line to the both corner bricks and lay bricks from one corner to other corner.
- Fill mortar between the gap using trowels.
- Ensure brick closer wherever required as per the drawing.
- Avoid vertical joints by ensuring even and odd courses alternatively.
- Check for plumb, alignment and level at every successive





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COURSES.	
 Rake out loose mortar in the joint. Assessor to ask Viva questions to assess the practical skill 	
PC27. Maintain bricks/block for manholes as per required line &	
level and providing channels and benching	
·	
 Mark and layout the man hole as per the drawing over the PCC. 	
Spread 10mm mortar over the surface to build brick courses.	
Lay bricks by ensuring proper opening for inlet and outlet and should for plumb, all properties and level.	
and check for plumb, alignment and level.	
Avoid vertical joints by ensuring even and odd courses	
alternatively.	
Check for plumb, alignment and level at every successive	
courses.	
Rake out loose mortar and finish the surface.	
Assessor to ask Viva questions to assess the practical skill	
PC28. Lay and fix paver block to designed pattern & finish the	
joints as specified	
Mark and layout the paver block to designated pattern over	
the PCC.	
Transfer level from reference level and fix button mark at	
every 2 meter interval (ensure slope if required).	
Spread 20mm sand over the PCC and level the surface with	
reference to the button mark.	
 Lay paver blocks from one end to other end. 	
Adjust the top surface of the paver by ensuring required	
stroke.	
Fill gap using required pieces.	
Assessor to ask Viva questions to assess the practical skill	
PC29. Install anchors and ties for masonry arches	
Mark the position of anchors and ties.	
 Install the specified anchors and ties as per the drawing. 	
Assessor to ask Viva questions to assess the practical skill	
PC30. Install arch masonry unit by laying and aligning as per	
specified bond	
Mark and layout the arch unit as per the drawing.	
Spread 10mm mortar over the surface to build brick courses.	
Lay brick as per the specified bond.	
Avoid vertical joints by ensuring even and odd courses	
alternatively.	
Check for plumb, alignment and level at every successive	
courses.	
Assessor to ask Viva questions to assess the practical skill	
Assessor to ask Viva questions to assess the practical skill PC31. Cut creepers around corners and full joints to obtain a	
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 PC31. Cut creepers around corners and full joints to obtain a flushed structure Mark on brick to cut creepers as per the specification using required tools. 	
 PC31. Cut creepers around corners and full joints to obtain a flushed structure Mark on brick to cut creepers as per the specification using required tools. Cut creepers using brick cutting machine. 	
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 PC31. Cut creepers around corners and full joints to obtain a flushed structure Mark on brick to cut creepers as per the specification using required tools. Cut creepers using brick cutting machine. Assessor to ask Viva questions to assess the practical skill PC32. Ensure proper curing of constructed masonry structure Write date on constructed masonry with permanent marker 	
 PC31. Cut creepers around corners and full joints to obtain a flushed structure Mark on brick to cut creepers as per the specification using required tools. Cut creepers using brick cutting machine. Assessor to ask Viva questions to assess the practical skill PC32. Ensure proper curing of constructed masonry structure 	





	Assessor to ask Viva questions to assess the practical skill	
	PC33. Remove deteriorated elements from masonry structures	
	using tools such as saws drills and chisels without causing	
	damage to adjacent structure	
	PC34. Reinstall brick/block to match previous or existing work	
	Assessor to ask Viva questions to assess the practical skill	
	PC35. Perform proper pointing and raking of joint to obtain	
	desired surface for exposed brick work	
	Rake out mortar joint for at least 15 to 20mm.	
	Clean and wet the mortar joint.	
	Apply fresh mortar with required ratio.	
	Do pointing using required tool.	
	Clean the surface using brush or sponge	
	PC36. Ensure proper bonding with old and new surface	
	Rake loose/dry mortar and wash the surface with water	
	Apply bonding agent/cement slurry on old surface.	
	Apply rich cement mortar and carry out necessary pointing.	
	Remove spilled mortar and clean surface using west sponge	
	or brush.	
	Cure pointing for at least 7 days.	
	Total Marks	80
CON/N0111	: Execute plaster on internal & external Masonry & RCC structu	ıre
2	PC1. Read sketches for plastering work	
	Interpret the information given in the working drawing like,	
	length, height and thickness of plastering, door and window	
	location, architectural finishing(type of plastering), location of	
	service components like, plumbing, fire, electrical etc.	
	PC2. Select correct materials, tools, tackles and equipment,	
	handle and store it properly at workplace:	
	handle and store it properly at workplace:	
	Select and check the condition of tools like, trowel, hammer,	
	Select and check the condition of tools like, trowel, hammer, straight edge, try square, spirit level, plumb bob, measuring	
	 Select and check the condition of tools like, trowel, hammer, straight edge, try square, spirit level, plumb bob, measuring tape, etc. 	
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	 Select and check the condition of tools like, trowel, hammer, straight edge, try square, spirit level, plumb bob, measuring tape, etc. PC3. Ensure that surface receiving pl2aster is prepared appropriately Clean and wet the surface. 	
	 Select and check the condition of tools like, trowel, hammer, straight edge, try square, spirit level, plumb bob, measuring tape, etc. PC3. Ensure that surface receiving pl2aster is prepared appropriately 	
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	PC7. Check the quality of surface to be plastered:			
	Ensure that the masonry surface is cured properly before			
	plastering.			
	 Check plumb and level of the surface to be plastered. 			
	Ensure that the surface is free form dead mortar and voids.			
	PC8. Check for quality and consistency of cement mortar mix			
	PC11. Ensure that cement mortar is mixed in specified			
	proportion including addition of additives if any:			
	Prepare 1:6 mortar ratio using proper sequence.			
	Ensure that the mortar colour is uniform.			
	 Add water proofing agent for external plastering. 			
	Ensure that the mortar has required consistency.			
	PC9. Ensure that the correct tools and equipment are selected			
	for plastering work as per requirement:			
	 Select and check the condition of tools like, trowel, hammer, 			
	straight edge, try square, spirit level, plumb bob, measuring			
_	tape, etc.			
	PC10. Moisten surface sufficiently before starting of the			
	plastering work			
	PC12. Apply cement slurry on receiving surface uniformly			
	Clean and wet the surface to be plastered before plastering.			
_	Apply cement slurry on receiving surface			
	PC13. Apply the plastering mix of specified thickness on the			
	surface			
	 Apply mortar using bucket trowel and plastering trowel. 			
_	Apply mortar from bottom to top.			
	PC14. Finish the surface by using correct tools as per the			
	required finish			
	Use corner trowel to finish corner joints.			
	Level the surface using wooden/metal float.			
-	Finish the surface using sponge.			
	PC15. Check for horizontal & vertical alignment during and after			
	plastering			
	 Use straight edge to trim excess mortar from the wall. 			
-	Fill mortar on voids and rectify the undulations if any.			
	PC16. Check for vertical and horizontal alignment using			
	appropriate tools			
	Check horizontal and vertical alignment using masons line			
-	and plumb bob.			
	PC17. Check for slope or maintain falls of the floor			
	PC18. Check for right angle at corner if required;			
	Check right angle at the corner using try square. Oheads for allow residue to be besselved.			
-	Check for slope using tube level. Tatal Marks	00		
CON/NO112	Total Marks	80		
materials	: Carry out waterproofing work for structures using cementition	us		
3	PC1. Identify and correct defects including caulking by sealing			
3	joints or seams in various concrete structures			
	 Carry out pond test and detect the leakage points. 			
	Cut v groove on every construction joint and fill waterproofing material with proper proportion.			
	 Rectify honey comb with waterproofing material followed by pressure grouting. 			
	prossure grouning.			





	
Carryout hunch concrete for all corner.	
PC2. Clean and wash the surface to be water proofed	
Chip and remove dead mortar and concrete	
Clean surface using wire brush and water.	
PC3. Ensure bricks are soaked overnight prior to laying a course	
Estimate and arrange required bricks as per the requirement	
Soak required bricks in a water tank or container for at least	
7 hour before laying	
PC4. Prepare the surface to be waterproofed through by the	
following method	
Prime coating	
Filling holes or depressions by cementitious material	
Washing down	
Hacking of existing RCC surface	
Chipping / scraping of protrusions	
Cleansing free of dust	
Priming or sealing of surface	
Removing sharp edges	
PC5. Check the quality of cement and sand for usability	
Check the quality of cement with respect to Grade, week,	
lumps, and colour.	
Check sand for silt content and grading requirement.	
PC6. Check the consistency of grouting material	
Check the make and type of grouting material as per	
specification.	
Check the consistency of the grouting material such that the	
material should easily fill between the gap without bleeding	
PC7. Check the usability of waterproofing material	
Read and understand the manufacturer instructions.	
Check and ensure that the specifications are matching with	
the requirement.	
Check for manufacturing date and batch Identification.	
Check for proportion and coverage capacity of the material.	
PC8. Mark and transfer required levels at a regular interval in	
order to maintain proper slope of finished surface in case of	
horizontal surface	
Transfer finished floor level from standard reference level	
using tube level.	
Mark reference level 300 mm above from the finished floor	
level for all the corners using permanent marker or paint.	
Ensure required slope as per the specification	
PC9. Prepare waterproofing cement mortar mixture as per	
specification for the respective surfaces	
Prepare waterproofing mortar mixture as per the proportion	
given in the manufacturer instructions.	
PC10. Apply waterproofing cementitious mixture to the prepared	
surface as specified	
Follow correct sequence to apply water proofing mixture to	
the prepared surface.	
PC11. Finish the surface using appropriate tool as per the	
required surface finish	
Finish surface using metal float and coir brush.	





	PC12. Protect waterproofed surfaces from any damage	
	Barricade the waterproofed area using caution tape or hard	
	barricading.	
	Cover water proofed are with tarpaulin or LDP sheet to	
	protect from rain water and dust	
	PC13. Check for further leakage of water	
	 Carryout pond test and ensure that there is no leakage. 	
	PC14. Ensure all non-structural gaps are filled prior to laying	
	brick bat course	
	Fill non-structural gaps with lightweight materials and finish	
	the surface.	
	PC15. Prepare a cement mortar in appropriate ratio including	
	addition of waterproofing admixture	
	PC16. Spread a mortar of even thickness on the surface	
	Prepare cement mortar of 1:6 ratio with proper sequence.	
	Spread 20mm thick mortar over the waterproofed surface.	
	Level the surface using straight edge	
	PC17. Lay brick bat on the prepared mortar ensuring proper	<u> </u>
	placement and uniform gaps between bricks	
	Tie masons line to all four corners using reference level.	
	Lay brick from one corner to other using even joint and	
	thickness.	
	PC18. Fill all gaps in brick bat using cement mortar	
	Maintain uniform gap (10 to 15 mm) between the brick.	
	Fill gap with cement mortar using correct sequence.	
	PC19. Finish the top surface smooth with cement mortar	
	prepared in specified proportion along with admixtures	
	Spread 20mm mortar over the brick surface and level it as	
	per the slope requirement.	
	Finish the surface using metal float and coir brush.	
	PC20. Identify and transfer required levels using appropriate	
	tools	
	Transfer level using tube level and marker.	
	PC21. Check horizontal and vertical alignment using appropriate	
	tools	
	Check horizontal and vertical level using reference line tied	
	between the reference levels.	
	PC22. Mark and transfer required levels at a regular interval in	
	order to maintain proper slope of finished surface in case of	
	horizontal surface	
	Transfer finished floor level from standard reference level	
	using tube level.	
	Mark reference level 300 mm above from the finished floor	
	level for all the corners using permanent marker or paint.	
	Ensure required slope as per the specification	
	Total Marks	80
CON/N0113	B: Build structures using random rubble masonry	
	-	
4	PC1. Ensure that the correct tools and tackles are selected for	
	use in the rubble masonry:	
	Select and check the condition of tools like, trowel, hammer, straight adds, try aguers, aprint level, plumb hab, managing.	
	straight edge, try square, spirit level, plumb bob, measuring	
	tape, etc.	





PC2. Roughly estimate amount of materials required to	
complete a rubble masonry job work:	
Calculate the quantity of raw materials required to perform	
the task using appropriate formula for stone, sand and	
cement.	
PC4. Ensure proper compaction of base prior to commencement	
of work:	
Ensure that the base is properly compacted before starting	
the stone laying.	
PC5. Select the particular type of surface finish as per the site	
requirements:	
Ensure that the surface finish is selected based on the	
drawing/site condition (Hammer dressed surface finish, fine	
chiselled surface finish, Tooled surface finish, pitched face	
surface finish etc.)	
PC6. prepare the sides, edges, bed of stone to ensure proper	
bonding of stones	
Ensure that the sides, edges, bed of stone is checked and fit	
for the stone laying work.	
PC5. Check for line, level and alignment:	
Use masons line, tube level, try square to check line level	
and alignment.	
PC7. Mix mortar for rubble masonry in specified ratio including	
dry and wet mix	
Prepare cement mortar of 1:6 with proper sequence.	
Add water to required quantity of mortar so that the entire wet	
mortar should be consumed within 30 minutes.	
PC8. Identify and transfer required levels using appropriate tools	
prior to rubble masonry work	
Transfer finished floor level from standard reference level	
using tube level.	
Mark reference level 300 mm above from the finished floor	
level for all the corners using permanent marker or paint.	
PC9. Check for workability and proportion of cement mortar	
Carry out physical inspection of cement bags and check for	
grade, batch date and week of manufacture.	
PC10. Check the quality of stones used in random rubble	
masonry	
Ensure that the stone used are as per the specification.	
Use dressed stone for face laying.	
Use undressed stone for filling.	
PC11. Ensure proper soaking of stones prior to laying	
Ensure that the stones are soaked prior to laying.	
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	
Ensure that the stone used are as per the specification.	
Use dressed stone for face laying.	
Use undressed stone for filling.	
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 increas	е
the strength as per the un-course random rubble masonry	
requirements	
PC16. Ensure proper curing of rubble masonry structure	
Ensure that the proper curing method is adopted for curing	
rubble masonry structure.	
Cure the masonry unit for at least 7 days	
PC17. Perform raking of joints as specified prior to drying of	
bonding mortar	
Rake the mortar joint for a depth of 15 to 20mm.	
Ensure that the raking activity should be done when the	
mortar is green.	
PC18. Ensure that joints are cleaned and surface is wet prior to	0
pointing	
Rake out mortar joint for at least 15 to 20mm.	
Clean and wet the mortar joint.	
PC19. Ensure lime/cement mortar for pointing is prepared as p	er
specification	
 Ensure that the pointing mortar prepared based on the ratio 	2
requirement.	
PC20. Fill joints with appropriate mortar to obtain specified type	e
of pointing	
PC21. Carry out various types of pointing works as per	
specification using appropriate tools and technique	
Apply fresh mortar with required ratio.	
Do pointing using required tool.	
Perform different types of pointing on stone masonry	
Clean the surface using brush or sponge	
PC22. Ensure proper curing of pointing	
 Ensure that the pointing is cured for at least 7 days by dam 	aı
method.	
PC23. Lay and fix stones for construction of walls without use	of
mortar	
Assessor to ask viva questions to assess the skill.	
PC24. Knock off all projecting corner	
Trim out the stone projections using stone chisel	
PC25. Mark and transfer required levels at a regular interval in	
order to maintain proper slope of finished surface in case of	
horizontal surface	
Transfer finished floor level from standard reference level	
using tube level.	
Mark reference level 300 mm above from the finished floor	
level for all the corners using permanent marker or paint.	
PC26. Check horizontal and vertical alignment using appropria	ite
tools	
Check the horizontal and vertical alignment using reference	Э
level.	
Total Mar	ks 80





CON/N01	14: Carry out IPS / Tre mix flooring works	
5	PC1. Inspect the work area prior to concreting, ensure levelling	
	in case of any undulations observed on the surface prior to	
	concretingCarry out pre inspection of the work area for undulations,	
	slope and honeycomb.	
	PC2. Ensure surface is prepared appropriately and report any	
	deviation in slope and alignment in PCC	
	Ensure that the area is cleaned properly.	
	Ensure that the surface made rough based on the	
	requirement.	
	Ensure that any deviations are reported to the supervisor. DC2 Depart any goes in formularly to avoid leakers.	
	 PC3. Report any gaps in formwork to avoid leakage Ensure that the form work is sealed properly to avoid 	
	leakage of slurry	
	PC4. Report any misalignment in formwork/reinforcement and	
	ensure proper cover for reinforcement is provided	
	Ensure that the form work and reinforcement are in true	
	alignment.	
	Check reinforcement cover from the reference line.	
	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	
	Transfer finished floor level from standard reference level	
	using tube level.	
	Mark reference level 300 mm above from the finished floor	
	level for all the corners using permanent marker or paint.	
	PC7. Check the grade of cement prior to use in case of manual	
	mixingCarry out physical inspection of cement bags and check for	
	grade, batch date and week of manufacture.	
	PC8. Ensure fine aggregate is sieved as per grade requirement	
	Ensure that the fine aggregate is sieved as per the grade	
	requirement.	
	PC9. Check that concrete is mixed in appropriate proportion	
	Ensure that the concrete is mixed for M20 proportion. Poul 2 No. 11 1 1 1 1 1 1 1 1 1	
	PC10. Visually assess the concrete mix for usability and	
	workabilityEnsure that the concrete mixed properly.	
	Check that the concrete colour is uniform.	
	Ensure that the water cement ratio is as per the requirement.	
	PC11. Notify superiors for detrimental quality of concrete	
	Escalate to superiors for detrimental quality of concrete	
	PC12. Ensure specified concrete mix is used at allocated	
	location	
	Ensure that concrete with M20 grade is used at the location. Dodg Object that concrete with M20 grade is used at the location.	
	PC13. Check that panels prepared are of specified size and type	
	Ensure that panel size should not exceed 3 meter.	





PC14. Fix the glass, aluminium or brass strip in cement mortar	
with their tops at appropriate level and according to slope	
PC15. Ensure panels are made as per specified size	
Fix glass stiffs as per the drawing followed by proper	
sequence.	
Ensure that panel size should not exceed 3 meter.	
PC16. Ensure concrete is poured in alternate panels/specified	
panels as per requirement;	
Pour concrete from one end to other end of the panel.	
PC17. Remove excess cement slurry and any marks on the	
surface	
Remove excess cement slurry from the surface using straight	
edge and trowel.	
PC18. Level the concrete surface with a straight edge and to the	
required finish with a wooden float / trowel	
Level concrete surface using straight edge and trowel.	
Finish surface using wooden float / trowel.	
PC19. Spread cement punning over the IPS concrete for smooth	
finish surface and allow it to soak into the concrete, as per	
requirement	
Finish the surface using metal float or trowel for smooth	
surface.	
PC20. Provide construction joints and expansion joints as per	
requirement	
Ensure vertical joint by removing excess/sloped concrete at	
the edge.	
PC21. Level poured concrete to the specified levels maintaining	
required slope	
Check the level from reference level at every 500 mm	
interval.	
PC22. Ensure curing of the finished floor surface for the	
specified time	
Build mortar bund at the periphery of flooring and fill the	
water.	
PC23. Level the surface and lay stone soling / boulder soling	
layer	
Carry out stone soling as per the requirement.	
PC24. Lay the floor with slope maintained in PCC work above	
the stone soling	
Lay PCC concrete over the soling as per the sequence.	
PC25. Remove excess water from the top layer of wet concrete	
without removing cement of sand particles through vacuum de-	
watering machines	
Follow correct method for vacuum dewatering.	
Ensure that the suction net is covered properly over the wet	
concrete.	
Adjust the RPM of motor and ensure that the cement	
particles are not removed from the concrete.	
PC26. Ensure floater work within green concrete surface	
Ensure that floater work is carried out within the green	
concrete.	
Follow proper method while operating power floater.	





	DOOZ Comment Transit florida in a 15 de anol de DOO florida	
	PC27. Carry out Tremix flooring in specified panel on RCC floors	
	ensuring intactness of rebar and cover	
	Assessor to ask viva question to assess the skill	
	PC28. Cut grooves on concrete at specified intervals for	
	construction joints	
	Mark on the floor where the groove needs to be cut.	
	Run groove cutting machine over the marking.	
	Adjust the blade so that the cutting is done for 5 mm depth.	
	PC29. Provide expansion joints as per requirement:	
	 Place filler material between the expansions joint. 	
	 Seal the top surface using recommended sealant. 	
	PC30. Carry out curing of finished concrete as per specifications	
	Build mortar bund at the periphery of flooring and fill the	
	water.	
	Ensure curing for at least 7 days.	
	PC31. Ensure finished levels have required slope	
	Carry out post inspection on finished surface for proper slope.	
	Total Marks	80
CON/N80	01: Work effectively in a team to deliver desired results at the w	orkplace
	PC1. Pass on work related information/ requirement clearly to	•
6	the team members:	
	Communicate work related information clearly to the team	
	•	
	members while performing task.	
	Assessor to observe this skill while performing task	
	PC2. Inform co-workers and superiors about any kind of	
	deviations from work:	
	Inform any kind of deviation to the instructor while performing	
	the task.	
	Is able to escalate any kind of deviations to	
	assessor/instructor.	
	PC3. Address the problems effectively and if required, report to	
	immediate supervisor appropriately:	
	Address the problems to the assessor/instructor (damaged or)	
	unguarded machineries, damaged electrical cables, material	
	shortage etc.).	
1	PC4. receive instructions clearly from superiors and respond	
	effectively on same:	
	Adhere to the instructions given by assessor/instructor while	
	performing the task.	
	 Is able to receive instructions clearly. 	
	PC5. Communicate to team members/subordinates for	
1	appropriate work technique and method:	
1	Communicate work related information/techniques clearly to	
1	the team members while performing task	
1	PC6. Seek clarification and advice as per requirement and	
	applicability:	
1	Is able to seek clarification and advice as per requirement.	
	PC7. Hand over the required material, tools, tackles, equipment	
	and work fronts timely to interfacing teams:	
	Hand over the required materials to the interfacing team.	
	 Hand over the tools and tackles to interfacing team. 	
	 Hand over the tools and tackles to interfacing team. Hand over the machineries and equipment to interfacing 	
	team.	





Assessor to observe this skill while performing the task. PC8. Work together with co-workers in a synchronized manner: Work together with co-worker. (Performing scaffold erection and dismantling) Work as a team member to complete the task within the stipulated time. Have clear communication with the team member while performing the task. Help and motivate co-workers to complete the task. Advice team member on work techniques. Resolve conflict raised within the team Assessor to observe this skill while performing the task CON/N8002: Plan and organize work to meet expected outcomes 7 PC1. Understand clearly the targets and timelines set by superiors: Is able interpret the details from work schedule. PC2. Plan activities as per schedule and sequence: Is able to follow the sequence of work. PC3. Provide guidance to the subordinates to obtain desired outcome: Is able to plan housekeeping work prior to and post completion of work: Is able to plan housekeeping work prior to and post completion of work. PC5. List and arrange required resources prior to commencement of work. PC5. List and arrange required resources prior to commencement of work: Is able to list and organise the materials, tools and tackles to execute the task. PC6. Select and employ correct tools, tackles and equipment for completion of desired work Is able to use correct tools and materials to complete the task. PC7. Complete the work with allocated resources: Is able to utilise the resources properly. Assessor to ask viva questions PC8. Engage allocated manpower in an appropriate manner: Is able to tellow proper sequence of execution. PC10. Employ tools, tackles and equipment with care to avoid damage to the same: Is able to select right tool for right job. Is able to safeguard the tools and equipment while performing the task. PC11. Organize work output, materials used, tools and tackles			
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·			
		deployed:	
Is able to list and organise the material, tools and tackles			





	used.	
	PC12. Processes adopted to be in line with the specified	
	standards and instructions:	
	 Is able to follow standard procedures while performing the 	
	task.	
	 Is able to follow safe working practices while performing the 	
	task	
	Total Marks	80
CON/N900	01: Work according to personal health, safety and environment	protocol
	iction site	P
8	PC1. Identify and report any hazard, risks or breaches in site	
	safety to the appropriate authority	
	 List possible hazards while performing different task (Bending 	
	and steel fixing, scaffold erection)	
	 Identify work place hazards while executing the task 	
	(damaged cable, damaged tools).	
	 Fill an incident form. (assessor to provide incident form) 	
	PC2. Follow emergency and evacuation procedures in case of accidents, fires, natural calamities	
	• • •	
	 List different types of emergency situation (Fire, flood, building collapse, war etc.) 	
	,	
	Ensure proper method to respond in case of any emergency. Condidate to perform role play based on the approximation by	
	(Candidate to perform role play based on the scenario given by	
	assessor)	
	PC3. Follow recommended safe practices in handling	
	construction materials, including chemical and hazardous	
	material whenever applicable	
	Follow safe working practice while performing all the task. Follows a few partition while head live the safe and a second as a secon	
	Follow safe practice while handling hand and power tools.	
	PC4. Participate in safety awareness programs like Tool Box	
	Talks, safety demonstrations, mock drills, conducted at site	
	List different types of emergency situation (Fire, flood,	
	building collapse, war etc.)	
	Ensure proper method to respond in case of any emergency.	
	(Assessor to ask viva questions to assess the knowledge)	
	Name different safety awareness program.	
	List the benefits of attending safety awareness program.	
	PC5. Identify near miss, unsafe condition and unsafe act	
	List unsafe condition found while performing the task (Lack of	
	illumination, inadequate ventilation, overcrowded and	
	congested work places, unguarded and faulty machineries,	
	defective tools and equipment etc.)	
	 List unsafe act found while performing the task (Not wearing 	
	safety gadgets, bullying team member, using faulty	
	machineries etc.).	
	PC6. Use appropriate Personal Protective Equipment	
	(PPE) as per work requirements including:	
	Is able to identify and demonstrate the use of following PPE:	
	Head Protection (Helmets)	
	Ear protection.	
	Fall Protection.	
	Foot Protection.	
	Face and Eye Protection.	





ı	Grand Total	640
	Total Marks	80
	task.	00
•	Follow proper ergonomic principles while performing all the	
۲(C12. Apply ergonomic principles wherever required.	
<u> </u>	tractor etc.)	
	designated yard (chute system, wheel barrow, mortar pan,	
•	Follow correct method to shift waste materials to the	
	etc.).	
	cutting operation, waste rebar, concrete waste, organic waste	
	the type of waste (waste binding wire, metal dust found while	
•	Collect the waste into designated yard or container based on	
ne	eeded for disposal of toxic or hazardous wastes	
	ontainers before disposal, separate containers that may be	
P	C11. Collect and deposit construction waste into identified	
•	List hygienic practice to be followed.	
•	Describe first aid procedure for different accidents.	
•	List the components of first aid box.	
	ambulance etc.).	
•	List emergency services with contact number (Fire,	
•	Describe safe assembly point.	
	preparedness plan.	
•	Identify and list the information provided in emergency	
Εŀ	HS department.	
	C10. Follow safety protocol and practices as laid down by site	
•	Identify and demonstrate the use of fire blanket.	
•	Identify and demonstrate the use of fire extinguisher.	
•	Identify and demonstrate the use of air breathing equipment.	
ins	structed	
	C9. Install and apply properly all safety equipment as	
•	Dispose hazardous waste into designated container.	
	waste (waste shuttering oil, chemical etc.)	
•	Follow proper precautionary measures while handling harmful	
•	Follow safe disposal of harmful waste.	
m	aterials as per EHS guidelines	
	C8. Follow safe disposal of waste, harmful and hazardous	
	task)	
	and materials. (assessor to observe while performing the	
•	Follow safe practice while handling hand tools, power tools	
sa	afely.	
P	C7. Handle all required tools, tackles, materials & equipment	
	protection.	
	protection, face and eye protection, hand and body	
	protection (Helmets), ear protection, fall protection, foot	
•	Demonstrate the use of all PPEs used by mason (Head	
•	Select and identify the parts of PPEs used by a mason.	
	 Respiratory Protection (if required). 	





6. Tools, materials and consumable list

Below tools list is prepared based on the practical questions for the NOS CON/N0110, CON/N0111, CON/N0112, CON/N0113 and CON/N0114.

Tools and consumables required				
Category	Sl.no.	Particulars	Specification	Quantity
	1.	Hammer	5 lb	4 sets
	2.	Brick chisel	Any reputed brand	4 sets
	3.	Stone chisel	Any reputed brand	
	4.	Comb chisel	Any reputed brand	4 sets
	5.	Bolster	Any reputed brand	4 sets
	6.	Masonry hand saw	Any reputed brand	4 sets
	7.	Steel trowel	Any reputed brand	4 sets
	8.	Float (wooden/metal)	150 X 200	4 sets
	9.	Straight edge (Aluminium)	2.5 meter (3 mm	4 sets
		,	thickness)	
Tools	10.	Wood/rubber mallet	Any reputed brand	4 sets
	11.	Spade (Phada)	Any reputed brand	4 sets
	12.	Mortar pan (Ghamela)	MS (2.5 litre)	4 sets
	13.	Corner trowel	Steel	4 sets
	14.	Pointer trowel	Steel	4 sets
	15.	Tuck pointing trowel	Steel	4 sets
	16.	Line and pins	2 mm nylon	4 sets
	17.	Screed board	Steel screed	4 sets
			(2.36mm)	
	18.	Jointers	Steel	4 sets
	19.	Steel lever	16 mm	4 sets
	1.	Plumb bob	150 gram	4 sets
	2.	Line string (line dori)	2 mm nylon	4 sets
Setting out	3.	Try square	Steel 150 X 300	4 sets
and marking	4.	Spirit level	1.5 meter	4 sets
out	5.	Measuring tape	5 meter	4 sets
instruments	6.	Steel or wooden scale	300 mm	4 sets
	7.	Tapered rule	600 mm foldable	4 sets
	8.	Gauge box	MS (Standard)	4 sets
	1.	Plate compactor	0.5 tonne capacity	2 sets
	2.	Concrete vibrator	Electric driven	2 sets
Power tools	3.	Grouting machine (Manual)	10 litre capacity	2 sets
	4.	Dewatering machine	Electric driven	2 sets
	5.	Groove cutting machine	Electric driven	2 sets
	1.	Cement	53 grade	20 bags
	2.	Sand (Medium)	Medium (Grade B)	200 CFT
	3.	Plasticizers	Any reputed brand	5 litre
	4.	Common burnt clay brick (2 nd	Class B	500
Materials		class)		
required for	5.	Coarse aggregates	Zone A	100 CFT
practical	6.	Rubble stone (Natural stone)	Granite	100
Piaotioai	7.	Water proofing compound with primer	RFX brush bond	30 litre
	8.	Glass stiffs	3 mm (Raw)	50 RMT
	9.	Scaffold set (Including all	Any reputed brand	5 Set
		components)		





	10.	Lifting appliances (wheel and rope, shackles, sling, belts)	Any reputed brand	2 sets
	11.	Wheel barrows	100 kg capacity	4
	12.	Wooden sleepers	350 X 350	4 set
	13.	Rhombus mesh (expanded metal mesh)	200 width	30 RMT
	14.	Mixing plat form (3'x5')	MS	5 set
	15.	Red oxide	Any reputed brand	1 litre
	1.	Helmet	Any reputed brand	1 per learner
	2.	Face shield	Any reputed brand	1 per learner
	3.	Safety goggles	Any reputed brand	1 per learner
	4.	Safety shoes	Any reputed brand	1 per learner
	5.	Safety belt	Any reputed brand	1 per learner
Consumables	6.	Ear defenders	Any reputed brand	1 per learner
	7.	Particle masks	Any reputed brand	1 per learner
	8.	Overalls	Any reputed brand	1 per learner
	9.	Knee pad	Any reputed brand	1 per learner
	10.	Reflective jackets	Any reputed brand	1 per learner
	11.	Pencil	Any reputed brand	1 per learner
	1.	Class room for theory assessment with 30 study chairs	300 sq.ft	1 per batch
	2.	Workshop for practical assessment	900 sq.ft	1 per batch
	3.	Masonry wall (For plastering)	200 sq.ft	1 per batch
	4.	Toilet/Urinals (Separate for gents and Ladies)	2 WC +5 urinals	1 per batch
Infrastructure	5.	3 phase power supply points	Any reputed brand	As required
	6.	Single phase power supply points	Any reputed brand	As required
	7.	Fire extinguishers (mechanical foam, DCP, CO ₂ and sand buckets with stand)	Any reputed brand	As required
	8.	First aid kit	Any reputed brand	As required
	9.	Tool box with lock and key	Any reputed brand	As required





7. Assessment methods/tools

7.1 CON/N0110: Construct masonry structures using brick /block

A. Practical questions

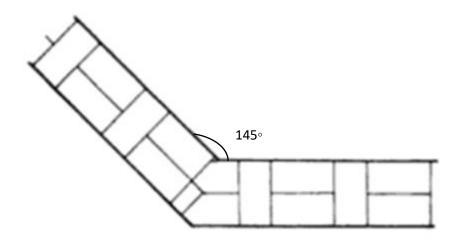
Total Marks: 80 Duration: 60 minutes

Candidate should able to:

- Select and visually check quality of material, tools and equipment used to perform the task.

 Marks: 10
 - Materials brick, cement, fine aggregate, water.
 - Tools trowel, hammer, jointer, spirit level, plumb bob, straight edge, line thread, mortar pan, brush, chisel, tube level, etc.
- Construct brick masonry wall as per the below drawing (any one). Marks: 55
 - · Read and interpret masonry sketch shown below.
 - Process followed for carrying out brick masonry wall.
 - All tasks should be considered accepted only on completion of task within acceptable tolerance limit. Also keep in view that completion of given task within permissible tolerance limit will be awarded full marks otherwise zero. Accepted tolerance limit for this task is attached in annexure 1 and also mentioned in respective assessment sheet.
 - Construct brick masonry wall within tolerance limit.
 - · Perform flush and concave pointing.

Marks: 15



Material Required: Lime/Cement, sand, bricks, water

Mortar Thickness: 10mm

Mortar mix: 1:4

Note: This task can be modified without deviating from the performance criteria. Helper to be provided for supporting activities like mixing of mortar and shifting and arranging material





B. Multiple choice questions

Total Marks: 12 Duration: 15 Minutes

(Preferably written but oral is also permitted)

1.	a. Ask the supervisor b. Select a baseline with respect to which layout can be given c. Draw the outline of the structure on the ground with chalk d. Mark the outline of the structure on the ground with a pickaxe	2 Marks
2.	What must be ensured prior to starting brickwork? a. The bricks are stacked properly b. The bricks have frogs in them c. The bricks are well dried in the sun d. The bricks are soaked in water	2 Marks
3.	For how many days should the brick masonry in cement mortar be cured? a. One day b. Seven days c. Twenty one days d. Twenty eight days	2 Marks
4.	Why are queen closers used in the brickwork? a. To ensure that the job is completed b. To fill up holes left by scaffolding materials c. To hold the bricks in position d. To ensure that the vertical joints in the brickwork are not in the same	2 Marks
5.	Stretcher bond is used in a. Half brickwork b. Full brickwork c. One and half brickwork d. Circular brickwork	2 Marks
6.	The last brick laid in the centre of the arch is called a. Crown b. Extrados c. Keystone d. Inclination	2 Marks





C. Viva questions

Total Marks: 08
Duration: 5 Minutes

(These questions could be asked during practical observation)

1. The brick work is not measured in cu m in case of?

2 Marks

Possible answers:

- a. One or more than one brick wallMason's hammer
- b. Brick work in arches
- c. Reinforced brick work
- d. Half brick wall
- 2. What are the dos and don'ts in brick laying process?

2 Marks

Possible answers:

- a. Bricks shall be soaked by in clean water for at least two hours
- b. Broken bricks shall not be used.
- c. Cut bricks shall be used to complete bond or as closers.
- d. Bricks shall be laid with frogs upwards over full mortar beds.
- e. All joints between bricks shall be fully filled with mortar.
- 3. What is the purpose of pointing and how is it done?

2 Marks

Possible answers:

- a. To provide a finished surface to a facing wall
- b. To protect the wall from rain/ moisture
- c. First raking of joints when the mortar is green
- d. Cleaning the joints with wire brush
- e. Wetting the joints
- f. Filling the joints with mortar
- 4. The portion of a brick cut across the width, is called?

2 Marks

Possible answers:

- a. Closure
- b. Half Brick
- c. Bed
- d. Bat





7.2 CON/N0111: Execute plaster on internal & external Masonry & RCC structure

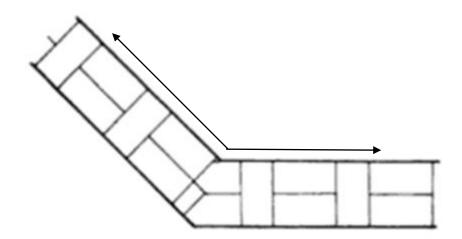
A. Practical questions

Total Marks: 80 Duration: 45 minutes

Technical specification: 12 mm thick single coat cement sand plastering 1:4 ratio on wall with sand faced finish including racking the joint, wetting of surfaces and curing the work.

- Select and visually check quality of material, tools and equipment used to perform the task
 Marks
 - Materials Cement, fine aggregate, water.
 - Tools trowel, hacking hammer, spirit level, plumb bob, straight edge, line thread, mortar pan, brush, chisel, tube level, float, etc.
- Carryout plastering work for internal RCC structure with sand faced finish.
 70 Marks
 - · Read and interpret sketch for plastering works provided below
 - Surface preparation for plastering
 - Fix button mark as per requirement
 - Process followed for plastering within permissible tolerance limit

(All tasks should be considered accepted only on completion of task within acceptable tolerance limit. Also keep in view that **completion of given task within permissible tolerance limit** will be awarded full marks otherwise zero. Accepted tolerance limit for this task is attached in annexure 2 and also mentioned in respective assessment sheet)



Material required: cement/lime, sand, admixture, water

Thickness of plaster: 12 mm

Mortar Mix: 1:4

Finish: Sand faced plaster

Note: This task can be modified without deviating the performance criteria. Helper to be provided for supporting activities like mixing of mortar and shifting and arranging material

Mason General





B. Multiple choice questions

Total Marks: 12 Duration: 15 Minutes

(Preferably written but oral is also permitted)

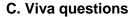
1.	be a. b. c.	r new brickwork, where subsequent plastering is to be done, the raking of j done during the progress of the work to a depth of 5mm 10mm 15mm 20mm	oints shall 2 Marks
2.	sar a. b. c.	eving of sand used for plastering should be done such that the following pend should pass 2.36 mm sieve: 0 to 50 percent 20 to 65 percent 80 to 90 percent 95 to 100 percent	rcentage of 2 Marks
3.	a. b. c.	e process of filling hollow spaces of walls before plastering, is known. Dubbing out Hacking Blistering Peeling	1 Mark
4.	a. b. c.	r plastering on concrete surface, what should be carried out Raking Scrubbing Nothing Hacking of RCC	2 Marks
5.	brina. b. c.	nat are narrow strips or bands of plaster laid on walls or ceilings to serve as nging the whole work to a true or even surface called? Finishing coat Gauging Screeds Undercoat	s guides for 2 Marks
6.	a. b. c.	e finishing coat of plaster is generally done to a thickness of 10mm to 15mm 10mm to 12mm 3mm to 8mm 1mm to 2mm	1 Mark





- 7. What will happen if proper raking of brickwork is not carried out prior to plastering? 2 Marks
 - a. Efflorescence
 - b. Falling out of plasterc. Blowing of plasterd. Cracking on surface







Total Marks: 8 Duration: 5 Minutes

(These questions could be asked during practical observation)

1. What are different type of plastering finishes?

2 Marks

Possible answers:

- a. Smooth cast
- b. Rough cast
- c. Pebble dash
- d. Texture Finish
- e. Scrapped finish
- 2. What are the activities required for preparation of surface for plastering? 2 Marks

Possible answers:

- a. Clean all the joints and surfaces of the wall with a wire brush
- b. Rake out the mortar joint to a depth of at least 12 mm
- c. If there exist any cavities or holes on the surface, then fill it in advance
- d. Roughen the entire wall to be plastered
- e. Wash the mortar joints and entire wall to be plastered, and keep it wet for at least 6 hours
- 3. What should be done to ensure uniform thickness of plaster?

2 Marks

Possible answers:

- a. First fix dots (button marks) on the wall according to thickness of plaster
- b. Dots are fixed horizontally and vertically about 2 meters apart covering the entire wall
- c. Check the verticality of dots, one over the other, by means of plumb-bob
- d. Form vertical strips of plaster, known as screeds, in between the dots
- e. Apply the plaster using screeds as gauges for uniform thickness
- 4. How is the finishing coat of plaster applied?

2 Marks

- a. Before applying the second coat, damp the first coat evenly
- b. Apply the finishing coat with wooden floats to a true even surface
- c. Use a steel float to give it a finishing touch.
- d. Finishing coat should be applied starting from top downwards
- e. Finishing coat should be completed in one operation to eliminate joining marks





70 Marks

7.3 CON/N0112: Carry out waterproofing work for structures using cementitious materials

A. Practical questions

Total Marks: 80 Duration: 75 minutes

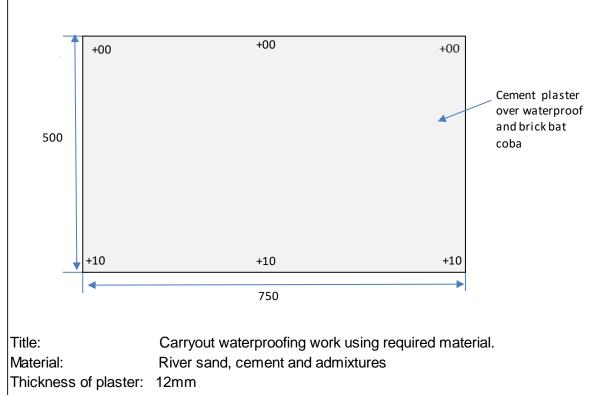
Technical specification: Terrace waterproofing consisting of brickbat coba in cement mortar mix in ratio of 1:6 (1 cement: 6 sand) with approved waterproofing compound including making 'V' grooves at junctions, cracks etc. and laying brick bat to required slope (minimum thickness 75mm), further finished (brush marked) with cement plaster of 20 mm thick.

- Select and visually check quality of material, tools and equipment used to perform the task.
 - Materials brick bat, water proofing compound (including primer, thinner), cement, fine aggregate, water.
 - Tools trowel, hacking hammer, spirit level, plumb bob, straight edge, line thread, mortar pan, brush, chisel, tube level, float, etc.
 - Process followed for waterproofing as per given sketch
 - Read and interpret details from waterproofing sketch/specification like type of surface finish, waterproofing agent, number of coats to be applied, slope of waterproofed surface etc.
 - Carry out surface preparation for waterproofing work on floor
 - Check and detect leakage points
 - Prepare/mix waterproof solution with required proportion
 - Apply brush bond waterproofing using correct sequence
 - Carry out brick bat course over the waterproof
 - Carryout surface finishing with cement mortar

(All tasks should be considered accepted only on completion of task within acceptable tolerance limit. Also keep in view that **completion of given task within permissible tolerance limit** will be awarded full marks otherwise zero. Accepted tolerance limit for this task is attached in annexure 3 and also mentioned in respective assessment sheet)







Scale: Not to scale

Unit: All dimensions are in mm

Finish: Brush finish

Mortar Mix: 1:4

Note: This task can be modified without deviating the performance criteria. Helper to be provided for supporting activities like mixing of mortar and shifting and arranging material





B. Multiple choice questions

Total Marks: 12 Duration: 10 Minutes

(Preferably written but oral is also permitted)

1.	Construction of parapet wall, fixing of down take pipes, water pipes, conduits be done a. After 14 days of completing the waterproofing work b. After 7 days of completing the waterproofing work	etc. should 1 Mark
	c. Along with the waterproofing workd. Before starting the waterproofing work	
2.	What is the first layer for waterproofing of concrete roof slab? a. Cement mortar 1:3 mixed with waterproofing compound b. 75mm thick lean concrete 1:3:6 c. Cement slurry using cement mixed with waterproofing compound d. Brick bats laid to slope	1 Mark
3.	In construction of brick bat coba, the base coat should be continued up to a. Full height of the parapet wall including the top b. 600mm over the parapet wall c. 300mm over the parapet wall d. Bottom of the parapet wall	2 Marks
4.	What is the minimum thickness of the brick bat coba layer in waterproofing of roof? a. 25mm b. 70mm c. 150mm d. 200mm	concrete 1 Mark
5.	For construction of brick bat coba, the brick bats should be properly dampened least a. 6 days b. 1 day c. 6 hours d. 1 hour	ed for at 3 Marks
6.	What is the finishing layer in brick bat coba construction? a. 40mm thick cement concrete admixed with waterproofing compound b. Tarpaulin properly secured at edges with cement concrete c. Waterproof paint d. 20mm thick cement sand mortar 1:4 admixed with waterproofing con	2 Marks
7.	The required slope in the finished waterproofing of roof is obtained by varying thickness of a. Cement slurry b. Base coat of cement mortar c. Brick bat coba d. Finishing coat	the 2 Marks



C. Viva questions



Total Marks: 8
Duration: 5 Minutes

(These questions could be asked during practical observation)

 What are the activities required for applying cement slurry under the base coat of brick bat coba treatment?
 Marks

Possible answers:

- a. Required quantity of slurry should be prepared
- b. The prepared slurry shall be applied with brushes over the dampened surface
- c. Slurry to be applied to all the joints
- d. Slurry should continue up to a height of 300 mm on the parapet wall
- e. Slurry should also be applied up to a height of 150 mm over pipe projections etc.
- 2. What are the various layers in the brick bat coba water proofing treatment of concrete roofs?

Possible answers:

- a. Cement slurry using cement blended with water proofing compound and water
- b. Base coat of cement mortar 1:5 (1 blended cement : 5 coarse sand)
- c. Brick bats laid to slope with joints filled with cement mortar 1:5
- d. Cement slurry over brick bat coba
- e. Finishing coat of cement mortar (1:4)
- 3. What precautions should be taken in construction of brick bat coba water proofing treatment?

 2 Marks

Possible answers:

- a. See that all the material used is of good quality
- b. See that the traps and release pipes are fitted properly before brick-bat coba coat.
- c. See that all the bricks are well soaked in water before use.
- d. Observe minimum gap between the brickbats.
- e. Check the slope in brick bat coat
- f. See that waterproofing compound is mixed in mortar at every stage of work.
- g. Check each stage by flooding it by water for leakage.
- h. Cure the surface without interruption.
- 4. What are the advantages of providing water proofing treatment to buildings? 2 Marks

- a. Prevents ground water or rain water entering into structures.
- b. Prevents leakage through structures
- c. Improves the durability of structures.
- d. Improves aesthetic appearance of structures.





7.4 CON/N0113: Build structures using random rubble masonry

A. Practical questions

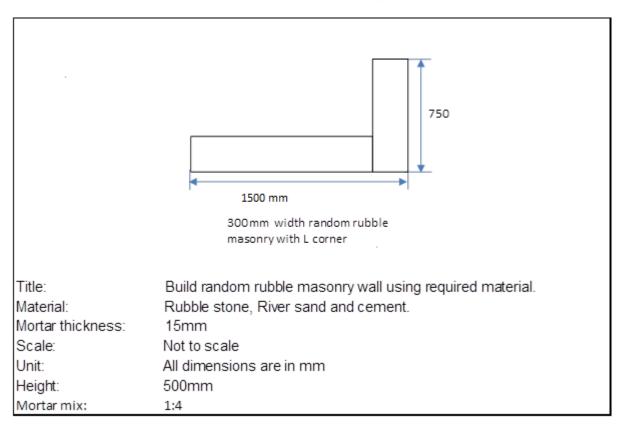
Total Marks: 80 Duration: 60 minutes

Technical specification: RR masonry in CM 1:4 for compound wall using approved quality rubble stones including dressing of stones, watering prior to laying, providing and laying bond stones, hearting stones, raking the joint up to a depth of minimum 6 mm finished with approved type of pointing.

- Select and visually check quality of material, tools and equipment used to perform the task.
 - Materials rubble stone, cement, fine aggregate, water.
 - Tools trowel, dressing hammer, spall hammer, chisel, spirit level, plumb bob, straight edge, line thread, mortar pan, brush, chisel, tube level, etc.
- Construct 300 mm thick random rubble masonry wall with L corner
 50 Marks
 - Read and interpret random rubble masonry specifications and sketch
 - · Carry out surface preparatory works
- Perform V pointing and Struck pointing

20 Marks

(All tasks should be considered accepted only on completion of task within acceptable tolerance limit. Also keep in view that **completion of given task within permissible tolerance limit** will be awarded full marks otherwise zero. Accepted tolerance limit for this task is attached in annexure 4 and also mentioned in respective assessment sheet)



Note: This task can be modified without deviating the performance criteria. Helper to be provided for supporting activities like mixing of mortar and shifting and arranging material





B. Multiple choice questions

Total Marks: 12 Duration: 10 Minutes

(Preferably written but oral is also permitted)

1.	What would be the approximate quantity of cement required for construction metre of random rubble masonry? a. 1 bag b. 2 bags c. 3 bags d. 4 bags	of 1 cubic 1 Mark
2.	What is a 'bond stone' in random rubble masonry? a. Stone of smaller size used for breaking the line of vertical joints b. Long stone to hold the wall together transversely across the width c. Alternate stone in every course d. Last stone in every course	1 Mark
3.	The stone masonry of finely dressed stones laid in cement or lime, is	2 Marks
	a. ashlar masonry.b. random rubble masonryc. coursed rubble masonryd. dry rubble masonry	
4.	What are hearting stones? a. Chips or spalls of stones used for filling the voids between adjacent stone b. Hammer dressed stones approximately regular in shape c. Stones not less than 150mm in size used for interior filling of wall d. Heart shaped stones	2 Marks es
5.	In RR masonry, raking is done a. To identify the location of joints b. To seal the joints c. To repair cracks in the wall d. When pointing or plastering is required to be done	1 Mark
6.	The pointing in stone masonry needs to be cured for at least a. 3 days b. 7 days c. 14 days d. 21 days	3 Marks





- 7. Levelling of the top in RR masonry at plinth level/roof level is done _____. 2 Marks
 - a. Using Kota stone slabs 40mm thick
 - b. Using hammer dressed stones in the top course
 - c. Using cement mortar 1:4
 - d. Using concrete comprising 1 part mortar and 2 parts graded aggregate 20mm and down

Mason General





C. Viva questions

Total Marks: 8
Duration: 5 Minutes

(These questions could be asked during practical observation)

- What are the various types of hand dressing of natural building stones?
 Marks

 Possible answers:
 - a. Pitched Faced Dressing
 - b. Hammer Dressing
 - c. Rock Facing
 - d. Rough Tooling
 - e. Punched Dressing
 - f. Closed Picked Dressing
 - g. Fine Tooling
- 2. What precautions should be taken in construction of rubble masonry? 1 Mark

Possible answers:

- a. Stones shall be sufficiently wetted before laying
- b. The largest stone shall be placed in the lowest course
- c. Vertical joints shall be staggered as far as possible
- d. Sufficient bond stones should be used
- e. The walls and pillars shall be carried up true to plumb
- 3. What is hearting in RR masonry and how is it laid? 2 Marks

Possible answers:

- a. Hearting is interior filling of the wall
- b. Consists of stones laid on proper beds in mortar
- c. Chips and spalls of stones are used to avoid thick joints of mortar
- d. No hollow spaces should be left anywhere in the masonry
- e. The chips shall be used only to the fill the gaps
- 4. How are the joints made and finished in RR masonry? 2 Marks

- a. Joints are fully packed 'with mortar and chips.
- b. Face joints should not be more than 20mm thick.
- c. Joints to be made flush if plastering is not to be done
- d. For plastering, joints to be raked when the mortar is still green





7.5 CON/N0114: Carry out IPS / Tre mix flooring works

A. Practical questions

Total Marks: 80 Duration: 60 minutes

Technical specification: Laying IPS flooring of M20 cement concrete with average 75 mm thick, providing and placing 25mm X 3 mm glass strips at not more than 3 meter interval with approved finish.

- Select and visually check quality of material, tools and equipment used to perform the task.
 Marks
 - Materials concrete, cement, fine aggregate, glass strip, water.
 - Tools trowel, chisel, spirit level, plumb bob, straight edge, line thread, mortar pan, brush, chisel, tube level, power floater etc.
- Carry out IPS flooring as per given sketch surface preparation for IPS flooring.

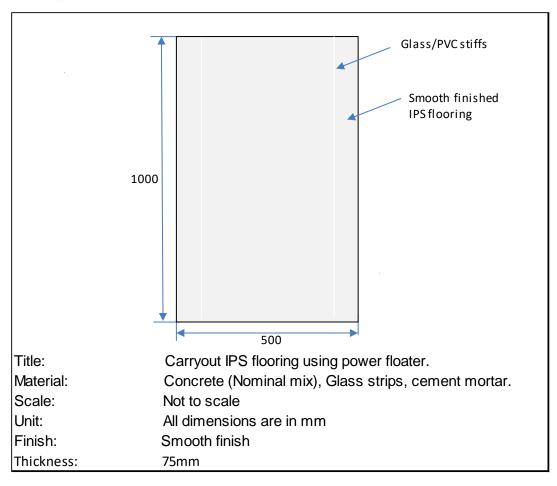
70 Marks

- Read and interpret details and specification for IPS/ Tre mix flooring including type of concrete mix, finishing, thickness, bay size etc.
- Carry out surface preparatory works
- Fix glass strips as per requirement
- Level and finish surface using power floater

(All tasks should be considered accepted only on completion of task within acceptable tolerance limit. Also keep in view that **completion of given task within permissible tolerance limit** will be awarded full marks otherwise zero. Accepted tolerance limit for this task is attached in annexure 5 and also mentioned in respective assessment sheet)







Note: This task can be modified without deviating the performance criteria. Helper to be provided for supporting activities like mixing of mortar and shifting and arranging material





B. Multiple choice questions

Total Marks: 12 Duration: 10 Minutes

(Preferably written but oral is also permitted)

1.	What should be the grading of coarse aggregate for 25 mm thick topping in concrete flooring? a. Graded from 40mm and below b. Graded from 25mm and below c. Graded from 16mm and below d. Graded from 12.5mm and below	cement 2 Marks
2.	Before starting the flooring work, the required levels should be marked a. On the drawing b. On the door jamb c. On the window sill d. 300mm above the required levels on the walls	3 Marks
3.	The size of the panels for laying concrete floors should be such that a. Length is not equal to breadth b. Length is not more than one and half times the breadth c. Length is more than one and half times the breadth d. Length is more than twice the breadth	2 Marks
4.	Flooring work should be done a. Before interior plastering b. Before fixing door frames c. Along with interior plastering and fixing of door frames d. After interior plastering and fixing of door frames	2 Marks
5.	In the tremix system of concrete flooring, the suction pressure of the de-warmachine should be a. Lower than atmospheric pressure b. Equal to atmospheric pressure c. High enough but such that no cement particle is visible in the water d. Very high so as to remove all the water	1 Mark
6.	Identify the equipment used in tremix system of flooring.	2 Marks



- a. Groove cutter
- b. Screed vibrator
- c. Vacuum pumpd. Power trowel



C. Viva questions



Total Marks: 8 Duration: 5 Minutes

(These questions could be asked during practical observation)

1. What are the jobs that must be completed before start of concrete flooring work?

2 Marks

Possible answers:

- a. Plastering of all inside walls and ceiling
- b. Fixing of door frames
- c. Finishing of sub-floor or base
- d. Marking of required levels
- 2. In construction of concrete floor, what are the factors that determine the durability of the floor?

 1 Mark

Possible answers:

- a. Strength of aggregate
- b. Water cement ratio of the mix
- c. Compaction of concrete
- d. Curing
- 3. What are the various steps in construction of IPS flooring using glass or metal strips?

Possible answers:

- a. Form panels using glass/ metal strips
- b. Place concrete in panels
- c. Level with straight edge and trowel
- d. Beat with thapi or mason's trowel
- e. Finish with cement slurry
- 4. What are the various layers and materials/ mixes generally involved in construction of 40mm thick IPS flooring?

 1 Mark

Possible answers:

- a. 25 mm thick concrete 1:2:4 using 10mm to 6mm graded stone aggregate
- b. 15 mm thick topping of concrete 1:2:4 using 6mm and down aggregate
- c. Finishing with neat cement slurry
- 5. What are the steps in the process of vacuum dewatering in Tremix Flooring? 1 Mark **Possible answers:**
 - a. Filter pads are placed
 - b. Top Cover is then placed on the filter pads
 - c. Top cover is rolled out till it covers the strips of exposed concrete on all sides
 - d. Top Cover is then connected to the vacuum pump
 - e. Pump is started
- 6. Describe groove cutting in Tre mix flooring.

2 Marks

- a. Groove Cutting is cutting the laid concrete providing grooves
- b. Grooves Cutting is done to insert contraction joints into slabs
- c. Groove Cutting guides cracks in concrete along a predetermined line
- d. Grooves are cut 5mm wide and one third of the thickness of the concrete
- e. Grooves are cut to form bays of 4Mtrs X 4Mtrs
- f. Grooves are cut using heavy duty cutting machine
- g. Grooves are cut within 48 hours of laying of the concrete
- h. Grooves are filled with appropriate sealant





Total Marks: 80

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

A. Practical questions

Assessor is required to assess this NOS bases on his/her observation skill and knowledge to observe, ask questions and assess trainee while performing all core NOS's during the practical task for following points:

- How the candidate communicates work related information to team member or to assessor.
 Marks
 - Is the candidate able to explain the process/sequence before performing every task? (Like, brick masonry, IPS flooring plastering etc.)
 - Is the candidate able to communicate properly with other candidate while transferring level through tube level? (while performing IPS flooring)
- How the candidate escalated deviations to the seniors/assessor.
 15 Marks
 - If the candidate reduced the length of wall due to some obstruction (while constructing brick masonry)
 - If the candidate changed the orientation of the wall due to some obstruction
- How the candidate addresses and reports problems.
 15 Marks
 - If the candidate noticed damaged tool or material (**Compulsory**: assessor to provide damaged tool or material to the candidate to assess this skill)
 - If candidate noticed shortage of materials while performing task (Assessor to provide less quantity of bricks to assess this skill)
 - If trainee facing problem with shortage of working space
 - If trainee found lack of illumination while performing the task.
- How a person receive and follow the instructions given by seniors/assessor. 15 Marks
 - Is candidate able to follow class room disciplines?
 - Is candidate able to follow instructions given by assessor?
- How a person seeks clarifications and resolves the issues raised during performing the task.
 - Is the candidate able to clarify if the information given for particular task is insufficient?

(**Compulsory:** Assessor to provide insufficient information on ratio of mortar for brick work.)

- How a person works as a team, like, proper cooperation, timely handing over tools and materials, helping and advising team members, etc.
 15 Marks
 - Is the candidate able to take support of team member (other candidate), if he needs to move heavy materials to clear the work area?
 - Is the candidate able to hand over the tools timely to other candidate? (For example Tube level, gauge box, mixing platform etc.)





B. Multiple choice questions

Total Marks: 12 Duration: 10 Minutes

(Preferably written but oral is also permitted)

1.	 What is the advantage of working in a team? a. The workers can form a union b. The workers can decide their own timings for work c. The workers can learn from each other d. The team becomes a stronger fighting force against others 	3 Marks
2.	The deadline for completion of a task is communicated by a. Immediate supervisor b. Project Manager c. Client d. Engineer-in-charge	2 Marks
3.	At the start of the work, the mason must inform his helpers regarding a. The nature of the engineer-in-charge b. The weather forecast c. The description of work and technique to be used d. The likely punishment for not completing in time	3 Marks
4.		damaged? 2 Marks
	 a. Report the matter to his supervisor and seek his advice b. Stop the work and wait c. Seek advice from colleagues d. Contact the Mechanical supervisor for repair of the machine 	
5.	When must the mason-in-charge hold discussion with the electrician-in-charge	e? 2 Marks

- a. When they have to plan a strike
- b. When they have to plan working in the same location
 c. When they have to plan to see a movie together
 d. When they have nothing to do





C. Viva questions

Total Marks: 8
Duration: 3 Minutes

(These questions could be asked during practical observation)

1. At a construction site, what kinds of systems are required to improve communication?

4 Marks

Possible answers:

- a. A system where people can interact directly and frequently
- b. A system where honest and open exchange is encouraged
- c. A system to address problems
- d. A system to resolve conflicts
- e. A system for providing feedback and recognition
- 2. What are the benefits of having good relationship between interfacing teams in construction projects?

 4 Marks

- a. Improves understanding of project
- b. Improves quality and compatibility
- c. Eliminates conflicts
- d. Improves work flow
- e. Sets standards of good practices





Total Marks: 80

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

A. Practical questions

Assessor is required to assess this NOS bases on his/her observation skill and knowledge to observe, ask questions and assess trainee while performing all core NOS's during the practical task for following points:

- How a person understand the targets and time line set by supervisor.
 15 Marks
 - Is candidate able understand the target clearly? (**compulsory**) (Ex. Type of plaster, Finishing required for IPS, type of brick bond, duration for each task etc.)
- How a person plan activities as per schedule and sequence.
 15 Marks
 - Is candidate able to explain the plan and sequence before performing any core task?
 (Compulsory: assessor to ask candidate to explain the sequence of task (for any core task)
- How a person provide guidance to the subordinates to obtain desired outcome.

10 Marks

- Is candidate able to guide other candidate while working together? (Ex. While transferring level using tube level, mixing mortar, marking layout etc.)
- How a person arrange required resources prior to commencement of work. 15 Marks
 - Is candidate able to arrange right quantity of material? (Ex. Number of bricks, number of helpers, tools etc.)
- How a person utilize resources effectively during performing the task.
 10 Marks
 - Is candidate able to use the bricks, sand, mortar, cement with allowable waste limit?
 - Is able to engage helpers properly?
- How a person adhere to the standard instructions while performing the task. 15 Marks
 - Is candidate able to follow standard instructions? (Ex. Class room discipline, using proper PPE's, care on surrounding environments etc.)





B. Multiple choice questions

Total Marks: 12 Duration: 10 Minutes

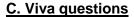
(Preferably written but oral is also permitted)

- 1. What is the first thing a mason should do for starting a new work? 2 Marks
 - a. Collect the materials
 - b. Collect the tools
 - c. Discuss and plan the details of the work with his supervisor
 - d. Discuss and plan the details of the work with the client
- 2. What should a mason discuss with his helpers at the start of the day's work? 2 Marks
 - a. Talk about activities of other teams
 - b. Explain the tasks of the day including the desired quality and time schedule
 - c. Ask the helpers what they plan to do that day
 - d. Enquire about the after-work activities of the team members
- 3. What must a mason do so that the work goes on uninterrupted throughout the day?

 2 Marks
 - a. Get the weather report
 - b. Ensure availability of all the required materials, tools, equipment and manpower
 - c. Break a coconut before starting the work
 - d. Ensure that all the team members are present in the morning
- 4. What should a mason do to carry out foundation work in a water-logged pit if no pump is available? 2 Marks
 - a. Wait till a pump is made available
 - b. Continue working in the water
 - c. Leave the work
 - d. Use part of the manpower for manual dewatering using buckets/mortar pans
- 5. How much mortar should be prepared at a time for doing brickwork in cement mortar?

 2 Marks
 - a. As much as can be accommodated on the mixing platform
 - b. As much as can be consumed within half an hour
 - c. As much as required for the day's work
 - d. As much as required for laving one full course of brickwork
- 6. What would happen if a mason produces a lot of output in given time but without adhering to the quality specifications? 2 Marks
 - a. The supervisor would love it
 - b. The team may earn a bonus from the employer
 - c. Nothing would happen
 - d. The work may fail inspection and may get rejected







Total Marks: 8 Duration: 5 Minutes

(These questions could be asked during practical observation)

1. What needs to be done to complete a construction project in time? 2 Marks **Possible answers:**

- a. Sequence of various activities has to be made
- b. A time schedule has to be made
- c. Deadlines for various activities has to be fixed
- d. Work must be reviewed on daily basis
- e. Schedule may be revised so as to complete the project in given time
- 2. What must be included in the briefing of the subordinates before start of the work?

Possible answers:

- a. Content/ scope of work
- b. Work practices
- c. Safety hazards
- d. Use of PPEs
- e. Special precautions
- 3. What are the resources that need to be arranged before start of a construction project?

 2 Marks

- a. Construction supervisors with capacity and experience
- b. Number of construction workers with proper skills
- c. Construction materials in sufficient quantities and of required quality
- d. Tools, tackles and equipment required for the work
- e. Local infrastructure to support workers including housing, sanitation etc.
- 4. What are the key factors for successfully completing a construction work? 2 Marks **Possible answers:**
 - a. Well defined scope of work
 - b. Early planning
 - c. Good leadership
 - d. Good teamwork
 - e. Quick response to changes





8 Marks

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

A. Practical questions

Total Marks: 80 Duration: 30 Minutes

Assessor is required to assess this NOS bases on his/her observation skill and knowledge to observe, ask questions and assess trainee while performing all core NOS's during the practical task for following points (If particular outcome is not covered in any of the core NOS's, assessor need to insist candidate to perform the activities):

- How person identify hazards, risks in site and report to seniors
 Marks
 - Is candidate able to escalate hazards, risks to the senior? (Ex. Damaged tools, unguarded machineries, inadequate illumination, co-worker working at height without using safety harness, damaged electrical cables etc.)
- How a person respond to emergency and evacuation procedures in case of accidents, fires.
 - Is candidate able to explain the emergency evacuation procedure in case of different emergencies? (Ex. Fire, building collapse, flood etc.)
- Use of personal protective equipment listed below (Compulsory).
 (Use of PPEs specified at NOS is mandatory for all the assesse and candidate should score 100% mark in this particular outcome.)
 - Is candidate able to demonstrate the use of all personal protective equipment's?
 (Ex. Helmet, harness, safety goggles, safety shoes, hand gloves, gum boot, earplug, dust mask, reflective jacket, shoulder pack, etc.
 - Is the candidate able to list PPE's as per the particular task? (Ex. While plastering, while water proofing, while IPS flooring etc.)
- Identification and operation procedure for fire extinguishers. 8 Marks
 - Is candidate able to identify different types of fire extinguishers? (Ex. DCP, CO2, Foam etc.).
 - Is candidate able to demonstrate the operating procedure for different types of fire extinguishers? (Assessor to insist candidate to perform this task
- Handling technique of tools, materials and equipment.
 8 Marks
 - Is candidate able to explain the handling techniques of tools, materials and equipment? (Ex. Cement bags, bricks, spirit level, drilling machine, vibrators etc.)
- Adhere to safe working practices while working at height, using tools and equipment, material shifting, working with hazardous materials etc.
 8 Marks
 - Is candidate able to place ladder safely?
 - Is candidate able to follow precautionary measures in disposal of harmful chemicals?
- Ensure cleaning, housekeeping and waste disposal.
 - Is candidate able to plan housekeeping while performing the task?
 - Is candidate able explain the method to shift waste to designated yard? (Ex. Through wheel barrow, through chute, through open dump etc.)





B. Multiple choice questions

Total Marks: 12 Duration: 10 Minutes

(Preferably written but oral is also permitted)

- 1. Whose responsibility is it to report unsafe working practices? 2 Marks
 - a. Your supervisor only
 - b. Only the site manager can do this
 - c. Only a health and safety rep can do this
 - d. It is responsibility of everyone to report unsafe working practices
- 2. Why are site inductions important?

2 Marks

- a. The work site health and safety rules are discussed during the site induction
- b. It gives you the opportunity to formally meet your colleagues
- c. It allows you to have a look around at the work site
- d. It gives you the opportunity to meet the site manager and supervisors
- 3. When should safety goggles be worn?

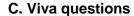
2 Marks

- a. Only when working with power tools
- b. Only when working with hazardous chemicals
- c. When the task has a potential for eye injury and if the site rules demand it
- d. Only when your eyes come into direct sunlight
- 4. What does a person must be if he needs to operate a power tool? 2 Marks
 - a. Trained and competent
 - b. At least 16 years old
 - c. At least 18 years old
 - d. At least 21 years old
- 5. What is the best way to ensure a ladder is secured and will not slip? 2 Marks
 - a. Tie it at the bottom
 - b. Tie it at the top
 - c. Have a colleague hold it while you work
 - d. Use a piece of wood to wedge the bottom
- 6. What is the safest way to lift a load?

2 Marks

- a. Keep you back rounded at all times
- b. Keep your back straight at all times
- c. Keep your feet as close as possible
- d. Keep your feet slightly apart with your back rounded







Total Marks: 8 Duration: 4 Minutes

(These questions could be asked during practical observation)

How should manual lifting of construction materials be done so as to prevent injury?
 2 Marks

Possible answers:

- a. Keep your back straight
- b. Do not twist
- c. Use handling aids
- d. Avoid lifting above shoulder level
- e. Use gloves and safety shoes
- 2. What precautions should be taken while using Fall Protection Equipment? 2 Marks **Possible answers:**
 - a. Inspect the equipment before each use
 - b. Replace defective equipment
 - c. Report the defects in the equipment to supervisor
 - d. Understand instructions and limitations on use
 - e. Proper fitting and adjusting to be done
- 3. What safety practices should be followed for working at heights? 2 Marks Possible answers:
 - a. Strong and stable platform/scaffolding is required for all work above a height of 2 m
 - b. Ladders can be used for short duration work
 - c. Scaffolding at a height of more than 3 m should have guard rails on open sides
 - d. All personnel working in tall building should wear helmets and safety belts.
 - e. Loose materials should not be kept over the scaffolding
 - f. Workers should not throw materials from scaffoldings
 - g. All loose materials and tools etc should be removed and brought down after the day's work
 - 4. What are the types of construction waste materials and how can these be utilized?

 2 Marks

- a. Wood can be used for bio-mass fuel
- b. Brick, concrete, rock, and dirt can be used in land fills
- c. Metal can be recycled
- d. Card board/ packing material can be recycled
- e. Plastic/ PVC can be recycled





8. Assessment Evidence Form

Trainee name:	Trainee roll number:						
his is to confirm that the trainee has handed over the final job to the assessor. For each task separate sheet can be used) Assessor to affix photographs of the practical output (end product)							
entre name/ Code Date: his is to confirm that the trainee has handed over the final job to the assessor. For each task separate sheet can be used) Assessor to affix photographs of the practical output (end product) Frainee's signature:							
Assessor to affix photographs of the practical ou	tput (end product)						
Trainee's signature:							
Assessor's signature:							
Assessor's name (please print):	_						
Centre Head's seal and signature:							





9. Assessment summary

Assessor's comments
This is to confirm that the trainee has undertaken the assessment for the job role of Mason General.
Trainee's signature:
Trainee's name (please print):
Assessor's signature:
Assessor's name (please print):
Centre Head's seal and signature:
Trainee's photo ID (other than the Institute ID):
Assessment completion date:





10. Assessment Summary Sheets

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Training Prov	vider	:					Quuiii	icuti	OII I u	CIC .	GCIIC	Jui Iviu	30	II L					Testing	Ce	ntre		
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Candidate D	etail			Batch:			Batch:			Batcl	1:			Batch:			Batch:			E	Batch:		
				Name:			Name:			Nam	e:			Name:			Name			N	lame:		
Assessment	Sumn	nary	<u>: , </u>														_						
	Allot	tted (M	arks)	Marks	Marks O	btained	Ma	rks Obta	ined		Marks (btained		Ma	rks Obt	ained	М	arks Ob	tained		M	arks Obt	tained
Jo.		Know	ledge		Know	ledge		Knov	vledge			owledge	1		Knov	vledge		Kno	wledge			Kno	wledge
NOS No.	Skill (Practical)	Theory	Viva	Skill (Practical)	Theory	Viva	Skill (Practical)	Theory	Viva	Skill	Theory	Viva		Skill (Practical)	Theory	Viva	Skill (Practical)	Theory	Viva		Skill (Practical)	Theory	Viva
CON/N0110	80	12	8										1										
CON/N0111	80	12	8										1										
CON/N0112	80	12	8										1										
CON/N0113	80	12	8]										
CON/N0114	80	12	8																				
CON/N8001	80	12	8																				
CON/N8002	80	12	8																				
CON/N9001	80	12	8																				
Total: 800	640	96	64																	L			
Percentage weightage	80%	12%	8%																				
Mimimum pass % to qualify	70%	70	º/o																				
				Result	: Passed,	/Failed	Result	: Passed	d/Failed	Res	ult : Pas	sed/Failed]	Result	: Passe	d/Failed	Resul	t : Passe	d/Failed		Resul	t:Passe	ed/Failed
Assessors Na	ıme:														Signa	ture :							
Assessing Body	/ Repr	esenta	tive Na	me:											Signa	ture :							
Assessment .	Agen	ıcy:													Date								





	1. Roll No. & Name:	4. Roll No.	4. Roll No. & Name:								
	2. Roll No. & Name:	5. Roll No.	5. Roll No. & Name:								
	3. Roll No. & Name:	6. Roll No.	6. Roll No. & Name:								
Ref.QP Code- CON/Q0103	Assessment Sheet for NOS No CON/N0110	•		Ma	rks Obta	ined by c	andidates				
QP & NOS Detail	Skills (Total Marks = 80)	Allotted Marks	1	2	3	4	5	6			
QP : Mason General	 Cary out visual inspection of bricks, cement, fine aggregate, etc. 	5									
	Cary out visual inspection tools such as mason trowel, spirit		1		-	+	-				
	level, plumb bob, straight edge, water level tube etc.	5									
CON/N0110: Construct masonry	Construct brick masonry wall within tolerance limit.				1	+					
structures using brick/block	Read and understand information's from drawing	5			†						
g. , ,	Overall length of wall ±4mm	5									
	Length of perpendicular wall ±4mm	5									
	Regular joint thickness ±3mm	5									
	Level to top course ±5mm	5									
	Internal square ness ±4mm	5									
	Square ness - other side ±5mm	5									
	Plumb to overall height ±5mm	5									
	Wall alignment ±5mm	5									
	Pointing on both faces Acceptable	5									
	Process followed for carrying out brick masonry work	5									
	4. perform flush pointing on one side of wall	5									
	5. perform recessed pointing on one side of wall	10									
	Total Marks	80									
		lge -Theory	(Total I	Marks =12	()						
	Procedure for layout marking for brick wall	2									
	2. Material preparation for brick work for wall	2									
	3. Information on curing duration for brick work	2									
	4. Different types of closers in brick work	2									
	5. Different types of bond used in brick work	2									
	6. Importance of key stone used in arch masonry	2									
	Total Marks	12									
	Knowle	edge - Viva	dge - Viva (Total Marks =8)								
	Knowledge about tools used in masonry work	2									
	2. Knowledge about do's and don'ts in brick laying process	2			1						
	knowledge about purpose and process of pointing	2		İ	İ			İ			
	knowledge about types of bond in brick work	2			1						
	Total Marks	8									
Batch No. & TP:	Assessors Name:	Assessors	Signatur	re :							
Assessors	Assessors Body(AB) Representative Name:			Signature :							
Reg. No. :		Date									
Assessment Agency :		Date:									





	1. Roll No. & Name:	4. Roll No.		N S-D-C				
	2. Roll No. & Name:	5. Roll No.	& Name:					Skill Development Corporation
	3. Roll No. & Name:	6. Roll No.						
Ref.QP Code- CON/Q0103	Assessment Sheet for NOS No CON/N0111	Marks Obtained by cand				andidates		
QP & NOS Detail	Skills (Total Marks = 80)	Allo tted Marks	1	2	3	4	5	6
QP : Mason General	Cary out visual inspection of cement, fine aggregate, tools etc.	5						
	Cary out visual inspection tools such as mason trowel, hacking hammer ,line thread, spirit level, plumb bob, mortar pan, straight edge, water level tube etc.	5						
CON/N0111: Execute plaster on internal & external Masonry	3.Carry out plastering works for internal RCC structure with sand faced finish							
& RCC structure	Carry out surface preparation works for plastering	15						
& RCC structure	4. Fix button mark for plastering as per the required thickness	15						
	General tolerance	8						
	Plaster thickness ±3mm	8						
	Surface evenness ±3mm	8						
	Plumb to overall height ±3mm	- 8						
	Corner straightness Truly straight							
	Sequence and finish Acceptable	-						
	Housekeeping Acceptable	8						
	Process followed for carrying out plastering work	80			-	1	l .	!
	Total Marks							
	Knowledge -MCQ (Total Marks =12)	2						
	Knowledge about depth of raked joints in brickwork prior to	1						
	plastering work							
	Knowledge about fine aggregate grading for plastering work	2						
	Knowledge about initial setting time of cement	2						
	Knowledge about tools used in plastering work Knowledge about screeds used in plastering	1 2						
	Knowledge about screeds used in plastering Knowledge about plastering thickness	2			-			
	7.Knowledge about tools used for horizontal and vertical		-		1			
	alignment in plastering	12						
	Total Marks							
	Kno wledge Viva (Total Marks = 8)	2						
	Knowledge about tools used in plastering	2	1				1	
	Knowledge about surface preparation for plastering works	2						
	3. Procedure to ensure uniform thickness of plaster	2						
	Knowledge about finishing coat of plaster	8			•	•		
	Total Marks							
Batch No. & TP:								
Assessors Reg. No. :		Assessors						
		AB Repre	sentative	Signature :	:			
Assessment Agency :	Assessors Name:	Date :						
	Assessors Body(AB) Representative Name:							





	1. Roll No. & Name:	4. Roll No.	& Name:					M-S-D-C			
	2. Roll No. & Name: 5. Roll No. & Name:							Self Servicepoor Corposation			
	3. Roll No. & Name:	6. Roll No. & Name:									
Ref.QP Code- CON/Q0103	Assessment Sheet for NOS No CON/N0112			Mai	rks Obta	ined by ca	ındidates				
QP & NOS Detail	Skills (Total Marks = 80)	Allo tte d Marks	1	2	3	4	5	6			
QP: Mason General	Cary out visual inspection of waterproofing materials, cement,	5									
	brick bat etc.	,									
	Cary out visual inspection tools such as mason trowel,hacking	_									
	hammer, spirit level, plumb bob, straight edge, water level tube ,mortar pan,brushetc.	5									
CON/N0112: Carry out waterproofing	Carry out surface preparation for waterproofing works on floor	10									
work for structures using	Check and detect leakage points	10									
cementitious materials	Prepare/mix waterproof solution with required proportion	5									
tementious materials	Apply brush bond waterproofing using correct sequence	18									
	7.Carry out brick bat course over the waterproof										
	Carryout surface finishing with cement mortar										
	General tolerance										
	Protective layer thicknessc ±3mm	4									
	Regular joint thickness (Brick) ±3mm	5									
	Gradient/slope ±3mm	4									
	Surface evenness ±3mm	4									
	Corner straightness Truly straight	5									
	Sequence and finish Acceptable										
	Housekeeping Acceptable										
	Process followed for carrying out waterproofing works	5	1								
	Total Marks	80									
	****		(Total)	Marks = 12	2)						
	Knowledge -MCQ (Total Marks =12) 1. Knowledge about surface preparation for water proofing work 1. In the control of the con										
	Knowledge about surface preparation for water proofing work	'									
	2.Knowledge about first layer in waterproofing of concrete slab	1									
	Knowledge about continuation of base coat for parapet wall	2	1								
	Knowledge about minimum thickness of brick bat coba	1									
	Knowledge about dampening of bricks for brick bat coba	3									
	Knowledge about finishing layer in brick bat coba	2									
	7.Knowledge about slope adjustment in brick bat coba	2									
	Total Marks	12									
	Knowled	lge Viva (Total N	farks = 8)							
				,							
	Knowledge about application of cement slurry for water proofing	2									
	Knowledge about various layers in brick bat coba	2									
	3. Knowledge about precautions to be taken while water proofing	2									
	Knowledge about the advantages of providing waterproofing treatments	2									
	Total Marks	8									
	l	l .		1	1		1				
Datah Na 9 TD:											
Batch No. & TP: Assessors	Assessors Name:	Assessors	Signatu	e:							
	Assessors Name: Assessors Body(AB) Representative Name:			Signature :							





1	1. Roll No. & Name:	4. Roll No.	& Name					₩ NS-D-C		
	2. Roll No. & Name:	5. Roll No.	& Name	:				Self-Soviegens Conjugation		
	3. Roll No. & Name:	6. Roll No. & Name:								
Ref.QP Code- CON/Q0103	Assessment Sheet for NOS No CON/N0113	Marks Obtained by candidates								
QP & NOS Detail	Skills (Total Marks = 80)	Allotted Marks	1	2	3	4	5	6		
OP: Mason General	Cary out visual inspection of cement bags and check for grade,			 						
Q1 1.11aoon General	batch date and week of manufacture	5								
	Cary out visual inspection of natural stone for size, colour,	5								
	finishing and any damages									
CON/N0113: Build structures using random rubble masonry	Carry out surface preparation works for Random rubble Masonry	10								
random rabble masomy	4.Construct 300mm thick RRM as per the specification/ drawing									
	General tolerance									
	Overall length of wall ±4mm	3								
	Length of perpendicular wall ±4mm	3								
	Regular joint thickness ±3mm	3								
	Level to top course ±5mm	3								
	Internal square ness ±4mm	5								
	Square ness - other side ±5mm	5								
	Plumb to overall height ±5mm	5								
	Wall alignment ±5mm	5								
	Pointing on both faces Acceptable									
	Process followed for carrying out waterproofing works	8								
	5.Carry out V pointing	10								
	6.Carry out Struck pointing	10								
	Total Marks	80								
	Knowledge -MCQ (Total Marks =12)									
	Knowledge about cement consumption for RRM	1								
	2. Knowledge about bond stone in RRM	1								
	Knowledge about the tools used in RRM	2								
	Knowledge about hearting stones used in RRM	2								
	Knowledge about raking in RRM joints	1	1							
	6.Knowledge about the duration of curing	3								
	7.Knowledge about the process of levelling the top course in RRM	2								
	Total Marks	12								
	Knowled	ge Viva (Total N	1arks = 8)						
	Knowledge about various types of natural stones	3								
	Knowledge about precautions to be taken while RRM	1								
	3. Knowledge about the process of laying hearting stones in RRM	2								
	4. Knowledge about the process of jointing and finishing in RRM	2								
	Total Marks	8								
Batch No. & TP:										
Assessors Reg. No. :	Assessors Name:	Assessors	Signatu	re:						
rog. no	Assessors Body(AB) Representative Name:	AB Repre	sentative	Signature :						
Assessment Agency :	1	Date :								

Mason General





	1. Roll No. & Name:	4. Roll No.	& Name:					N-S-D-C	
	2. Roll No. & Name:	5. Roll No.	& Name:					Sci Development Composition	
	3. Roll No. & Name:	6. Roll No. & Name:							
Ref.QP Code- CON/Q0103	Assessment Sheet for NOS No CON/N0114								
QP & NOS Detail	Skills (Total Marks = 80)	Allotted Marks	1	2	3	4	5	6	
QP : Mason General	Cary out visual inspection of cement bags and check for grade, batch date and week of manufacture	5							
	Cary out visual inspection of glass strips for thickness, length, width and for cracks.	5							
CON/N0114: Carry out IPS / Tremix	3. Cary out surface preparation for IPS flooring	15							
flooring works	4. Fix glass strips as per the requirement	15							
	5. Fill, level and finish surface using power floaters								
	General tolerance								
	Surface evenness ±3mm	10							
	Spacing between panel ±10mm	10							
	Corner straightness Truly straight	10							
	Sequence and finish Acceptable								
	Housekeeping Acceptable								
	Process followed for carrying out IPS flooring works	10							
	Total Marks	80							
	Marks =12)							
	Knowledge about grading of coarse aggregate	2							
	Knowledge about the marking of reference level	3							
	Knowledge about the panel size for IPS flooring	2							
	Knowledge about the sequence of IPS flooring	2							
	Knowledge about the suction pressure of dewatering machine	1							
	6.Knowledge about groove cutter	2							
	Total Marks	12							
	Knowled	lge Viva (Total N	farks = 8)	I	1			
	Knowledge about the preparatory steps prior to flooring work	2		ĺ					
	2.Knowledge about the factors that determine the durability of the floor	1							
	Knowledge about the various steps in construction of IPS flooring	1							
	Knowledge about the various layers of IPS flooring	1							
	5. Knowledge about the process of vacuum dewatering	1							
	Knowledge about the process of groove cutting in Tre mix flooring	2							
	Total Marks	8							
Batch No. & TP:									
Assessors Reg. No. :	Assessors Name:	Assessors	Signatu	re :					
vog. 110	Assessors Body(AB) Representative Name:	AB Repres	sentative	Signature :					
		Date :							





	1. Roll No. & Name:	4. Roll No.	4. Roll No. & Name:			N-S-D-C		
	2. Roll No. & Name:	5. Roll No. & Name: 6. Roll No. & Name:			N-5-D-C Retical Sul Susignment Corporation			
	3. Roll No. & Name:							
Ref.QP Code- CON/Q0103	Assessment Sheet for NOS No CON/N8001			Mar	ks Obtai	ned by ca	ndidates	
QP & NOS Detail	Skills (Total Marks = 80)	Allotted 1 2 3 4 5		5	6			
QP : Mason General	How the candidate communicate work related information to team member or to assessor	10						
	2. How the candidate escalate deviations to the seniors/assessor	15						
CON/N8001: Work effectively in a	3. How the candidate address and report problems	15						
team to deliver desired results at the workplace	How a person receive and follow the instructions given by seniors/assessor	10						
	How a person seek clarifications and resolve the issues raised during performing the task	15						
	How a person work as team like, proper cooperation, timely handing over tools and materials, helping and advising team members	15						
	Total Marks	80						
	Knowledge -MCQ (Total Marks =12)							
	Knowledge about the advantage of working in a team	3						
	2. Knowledge about the work schedule	2						
	3. Knowledge about the importance of communication with team	3						
	Knowledge about the escalation and reporting problems	2						
	5. Knowledge about the importance of inter team discussion	2						
	Total Marks	12						
	Knowled	lge Viva (Total N	Marks = 8)				
	Knowledge about the implementation of communication skill	4						
	Knowledge about the benefits of having good relationship between interfacing teams	4						
	Total Marks	8						
Batch No. & TP:							•	•
Assessors Reg. No. :	Assessors Name:	Assessors	Signatu	re:				
	Assessors Body(AB) Representative Name:	AB Representative Signature :						
Assessment Agency :	1	Date:						





	1. Roll No. & Name:	4. Roll No.	& Name	:				₩ N-5-D-C	
	2. Roll No. & Name:	5. Roll No. & Name:		N-5-D-C National Self-Zendapment Corposition					
	3. Roll No. & Name:	6. Roll No.	& Name	:					
Ref.QP Code- CON/Q0103	Assessment Sheet for NOS No CON/N8002			Ma	rks Obta	ined by c	andidates		
QP & NOS Detail	Skills (Total Marks = 80)	Allotted 1 2 3 4 5		5	6				
QP : Mason General	Is candidate able understand the target clearly	15							
	Is candidate able to explain the plan and sequence before performing any core task	15							
CON/N8002: Plan and organize work to meet expected outcomes	Is candidate able to guide other candidate while working together in a team	10							
to meet expected outcomes	Is candidate able to arrange right quantity of material	15							
	5. Is candidate utilize resources effectively during performing the task	10							
	6. Is candidate adhering to the standard instructions while performing the task	15							
	Total Marks	80							
	Knowledg	e -MCQ	(Total	Marks =12	2)		1		
	Knowledge about the targets and time line to complete the task	4							
	Knowledge about the work schedule	2							
	3. Knowledge about decision making	4							
	Knowledge about the utilization of resources	2							
	Total Marks	12							
	Knowled	lge Viva (Total N	/arks = 8)					
	Knowledge about the completion of work in time	2							
	Knowledge about the briefing of subordinates before start of work	2							
	3.Knowledges about resources for construction work	2							
	Knowledge about tkey factors for completion of construction works.	2							
	Total Marks	8							
Batch No. & TP:	1		1	'	1		1	·	
Assessors	Assessors Name:	Assessors	Signatu	re :					
Reg. No. :	- DOCOGO TRAILE		Jigimiu						
	Assessors Body(AB) Representative Name:	AB Representative Signature :							
Assessment Agency :		Date:							





	1. Roll No. & Name:	4. Roll No.	& Name:					W N-S-D-C
	2. Roll No. & Name:	5. Roll No. & Name:		N-S-D-C National Sril Conformati Corposition				
	3. Roll No. & Name:	6. Roll No.	& Name:					
Ref.QP Code- CON/Q0103	Assessment Sheet for NOS No CON/N8002	l .		Ma	rks Obta	ined by ca	ndidates	
QP & NOS Detail	Skills (Total Marks = 80)	10.01		5	6			
QP : Mason General	Is candidate able understand the target clearly	15						
	Is candidate able to explain the plan and sequence before performing any core task	15						
CON/N8002: Plan and organize work to meet expected outcomes	Is candidate able to guide other candidate while working together in a team	10						
	4. Is candidate able to arrange right quantity of material	15						
	5. Is candidate utilize resources effectively during performing the task	10						
	Is candidate adhering to the standard instructions while performing the task	15						
	Total Marks	80						
	Knowledg	e -MCQ	(Total l	Marks =12	2)			
	Knowledge about the targets and time line to complete the task	4						
	Knowledge about the work schedule	2						
	Knowledge about decision making	4						
	Knowledge about the utilization of resources	2						
	Total Marks	12						
	K no wled	lge Viva (Total M	farks = 8)				
	Knowledge about the completion of work in time	2						
	Knowledge about the briefing of subordinates before start of work	2						
	3.Knowledges about resources for construction work	2						
	Knowledge about tkey factors for completion of construction works.	2						
	Total Marks	8						
Batch No. & TP:	1					1		1
Assessors	Assessors Name:	Assessors	Signatur	re:				
Reg. No. :			- 0					
	Assessors Body(AB) Representative Name:	AB Repres	sentative	Signature :				
Assessment Agency :		Date:						





	1. Roll No. & Name:	4. Roll No.	. & Name:					New N.S.D.C	
	2. Roll No. & Name:	5. Roll No.	. & Name:					Skill Development Corporation	
	3. Roll No. & Name:		6. Roll No. & Name:						
Ref.QP Code- CON/Q0103	Assessment Sheet for NOS No CON/N9001			Ma	rks Obtai	ned by c	andidates		
QP & NOS Detail	Skills (Total Marks = 80)	Allotted Marks	1	2	3	4	5	6	
QP : Mason General	Is candidate able to escalate hazards, risks to the senior	10							
	Is candidate able to explain the emergency evacuation procedure in case of different emergencies	8							
CON/N9001: Work according to personal health, safety and	Is candidate able to demonstrate the use of all personal protective equipment's	25							
environment protocol at construction site	Is able to list PPE's for different activities (brick work, IPS flooring, Plastering)	5							
	5. Is candidate able to identify different types of fire extinguishers	3							
	Is able to demonstrate the operating procedure for different types of fire extinguishers	5							
	Is candidate able to explain the handling techniques of tools, materials and equipment	8							
	8. Is candidate able to place ladder safely	4							
	Is candidate able to follow precautionary measures in disposal of harmful chemicals.	4							
	Is candidate able explain the method to shift waste to a designated yard	8							
	Total Marks	80							
	Knowledge -MCQ (Total Marks = 12)								
	Knowledge about unsafe working practices	2							
	Knowledge about the importance of site safety induction	2							
	3. Knowledge about safety goggles	2		1					
	Knowledge about the basic needs to operate a power tool	2							
	5. Knowledge about safe placing of ladder	2							
	6. Knowledge about safe manual lifting of load	2							
	Total Marks	12							
	Knowled	lge Viva ((Total M	Tarks = 8)		l.			
	knowledge about the precautions to be taken while manual lifting	2							
	Knowledge about the precautions should be taken while using Fall Protection Equipment	2							
	Knowledge about the safety practices should be followed for working at heights	2							
	Knowledge about the types of construction waste materials and how can these be utilized	2							
	Total Marks	8							
Batch No. & TP:		·							
Assessors Reg. No. :	Assessors Name:	Assessors	Signatuı	re:					
	Assessors Body(AB) Representative Name:	AB Repre	sentative	Signature :					
Assessment Agency :		Date :							





11. Annexures

Annexure 1 General tolerance related to the practical task for NOS - CON/N0110

General Mason							
1. Lea	rner Name: 2. Enrolmen	t No:	3. Centre	:			
S.No	Description	Permitted tolerance	Observed variation	Assessments			
CON/N0110: Construct masonry structures using brick / block							
1	Overall length of wall	±4mm					
2	Length of perpendicular wall	±4mm					
3	Regular joint thickness	±3mm					
4	Level to top course	±5mm					
5	Internal square ness	±4mm					
6	Squareness – other side	±5mm					
7	Plumb to overall height	±5mm					
8	Wall alignment (up to 3meter)	±5mm					
9	Pointing on both faces	Acceptable					
Asses	ssor Comment:						
Asses	sor Name	Assessor Sign	ature				





Annexure 2: General tolerance related to the practical task for NOS - CON/N0111

General Mason								
1. Lea	arner Name:	_ 2. Enrolment No:	3. Cei	ntre:				
S.No	Description	Permitted tolerance	Observed variation	Assessments				
CON/	CON/N0111: Execute plaster on internal & external Masonry & RCC structure							
1	Plaster thickness	±3mm						
2	Surface evenness	±3mm						
3	Plumb to overall height	±3mm						
4	Corner straightness	Truly straight						
5	Sequence and finish	Acceptable						
6	Housekeeping	Acceptable						
Assessor Comment:								
Asses	ssor Name	Assessor Si	ignature					





Annexure 3: General tolerance related to the practical task for NOS - CON/N0112

General Mason							
1. Lea	arner Name: 2. Enr	olment No:		3.			
S. No	Description						
	CON/N0112: Carry out waterproofing work for structures using cementitious materials						
1	Plaster thickness (protective layer)	±3mm					
2	Regular joint thickness (Brick)	±3mm					
3	Gradient/slope	±3mm					
4	Surface evenness	±3mm					
5	Corner straightness	Truly straight					
6	Sequence and finish	Acceptable					
7	Housekeeping	Acceptable					
Assessor Comment:							
Asses	sor Name	Assessor Sig	nature				





Annexure 4: General tolerance related to the practical task for NOS – CON/N0113

General Mason								
1. Lea		inrolment No: _		3.				
S.No	Description	Permitted tolerance	Observed variation	Assessments				
CON/	CON/N0113: Build structures using random rubble masonry							
1	Overall length of wall	±4mm						
2	Length of perpendicular wall	±4mm						
3	Regular joint thickness	±5mm						
4	Level to top course	±5mm						
5	Internal square ness	±4mm						
6	Square ness – other side	±5mm						
7	Plumb to overall height	±5mm						
8	Wall alignment (up to 3meter)	±5mm						
9	Pointing on both faces	Acceptable						
Asses	ssor Comment:							
Asses	sor Name	Assessor Signa	ature					
		1						





Annexure 5: General tolerance related to the practical task for NOS – CON/N0114

General Mason							
1. Lea	rner Name: 2. E	nrolment No:		3.			
S.N o	Description	Permitted tolerance	Observed variation	Assessments			
CON/N0114: Carry out IPS / Tre mix flooring works							
1	Surface evenness	±3mm					
2	Spacing between the glass panel (3 meter)	±10mm					
3	Corner straightness	Truly straight					
4	Sequence and finish	Acceptable					
5	Housekeeping	Acceptable					
Asses	ssor Comment:						
Assessor Name Assessor Signature							