

Assessment Blueprint

Assessment Overview

Sector	Construction
Job Role	Mason Concrete
QP Code	CON/Q0105
Version	4.0
NSQF level	3.5
No. of Questions (Theory + Practical+Viva)	39+8+10=57
Duration (Minutes)	Theory: 60 Minutes Viva: 60 Minutes Practical: 360 Minutes
Acceptable level of variance in duration and no. of Questions Per NOS	+10%
Language	English

INSTRUCTIONS

1. Total duration of the examination is 480 Minutes (Theory: 60 Minutes + Viva: 60 Minutes + Practical: 360 Minutes)

S.No.	NOS Code	NOS Details	Question Type	Question	Option 1 (A)	Option 2 (B)	Option 3 (C)	Option 4 (D)	Correct Answer	Marks Assigned
1	CON/N0114	Carry out IPS/ Tremix flooring	MCQ Type	Which process removes excess water from Tremix concrete?	Vacuum dewatering	Manual trowelling	Surface curing	Groove cutting	A	6
2			MCQ Type	Which tool is used to check floor surface level?	Groove cutter	Steel trowel	Wooden float	Spirit level	D	6
3			MCQ Type	What is the purpose of curing IPS flooring?	Create floor joints	Develop proper strength	Remove excess water	Increase surface roughness	B	6
4			MCQ Type	Which operation helps produce a smooth IPS floor finish?	Steel trowelling	Vacuum dewatering	Concrete mixing	Surface hacking	A	6
5			MCQ Type	Why are construction joints provided in large Tremix floors?	Improve cement setting	Increase water content	Reduce concrete strength	Control cracking	D	6
6	CON/N0117	Place, level and finish concrete in various structural elements including repairs	MCQ Type	Which tool is used to compact freshly placed concrete?	Needle vibrator	Steel trowel	Mason's float	Spirit level	A	6
7			MCQ Type	What should be checked while leveling concrete surfaces?	Brick joint thickness	Cement bag condition	Required line and level	Reinforcement weight	C	6
8			MCQ Type	Which tool helps finish a fresh concrete surface smoothly?	Steel trowel	Needle vibrator	Concrete mixer	Measuring tape	A	6
9			MCQ Type	What should be removed before repairing damaged concrete?	Fresh cement paste	Loose damaged concrete	Curing water layer	Finishing mortar coat	B	6
10			MCQ Type	Why is proper compaction necessary after placing concrete?	Remove entrapped air	Increase water content	Reduce cement quantity	Delay concrete setting	A	6
11	CON/N8001	Work effectively in a team to deliver desired results at the workplace	MCQ Type	What helps a masonry team complete work efficiently?	Independent decisions	Individual planning	Separate reporting	Clear communication	D	6
12			MCQ Type	How should a mason coordinate while placing concrete?	Use different methods	Change work sequence	Follow team instructions	Assign personal tasks	C	6
13			MCQ Type	What is important when sharing tools among team members?	Keep tools personally	Use tools cooperatively	Change tool locations	Select separate tools	B	6
14			MCQ Type	How should team members handle workplace disagreements?	Discuss and resolve	Continue separate work	Change assigned duties	Report every issue	A	6
15			MCQ Type	Why should a mason support other team members?	Reduce team coordination	Increase individual workload	Change work responsibility	Achieve common targets	D	6
16	CON/N8002	Plan and organize work to meet expected outcomes	MCQ Type	What should a mason do before starting concrete work?	Plan work sequence	Begin concrete finishing	Start surface curing	Check final appearance	A	6
17			MCQ Type	Why is material planning important before concrete work?	Increase material wastage	Ensure timely availability	Change concrete strength	Delay work completion	B	6
18			MCQ Type	How should tasks be organized at the workplace?	According to work priority	According to personal choice	According to tool colour	According to arrival time	A	6
19			MCQ Type	What helps complete concrete work within scheduled time?	Unplanned work sequence	Frequent task changes	Repeated material shifting	Proper work planning	D	6
20			MCQ Type	Why should tools be arranged before starting work?	Ensure smooth workflow	Increase tool movement	Change task sequence	Extend working time	A	6
21	CON/N9001	Work according to personal health, safety and environment protocols at construction site	MCQ Type	Which PPE should a mason wear while handling concrete?	Welding helmet	Cotton apron	Safety gloves	Raincoat jacket	C	6
22			MCQ Type	What should be checked before using electrical equipment?	Cable insulation condition	Equipment surface colour	Manufacturer brand name	Purchase date details	A	6
23			MCQ Type	How should construction waste be managed at site?	Mix with fresh concrete	Store near work area	Segregate and dispose properly	Spread around workplace	C	6
24			MCQ Type	What should a mason do after noticing a safety hazard?	Report to supervisor	Continue assigned work	Change work location	Collect unused materials	A	6
25			MCQ Type	Why is proper housekeeping important at construction sites?	Improve brick appearance	Increase concrete strength	Reduce cement consumption	Prevent slips and trips	D	6
26	DGT/VSQ/N0101	Employability Skills (30 Hours)	MCQ Type	Which action shows effective communication at the workplace?	Listening carefully	Speaking rudely	Giving unclear instructions	Interrupting team members	A	5
27			MCQ Type	Which habit demonstrates good time management at work?	Arriving late regularly	Completing tasks on time	Delaying assigned tasks	Extending break periods	B	5
28			MCQ Type	Which behaviour shows effective teamwork at the workplace?	Avoiding team discussions	Refusing team support	Creating workplace conflicts	Cooperating with colleagues	D	5
29			MCQ Type	What is the correct approach to solve a workplace problem?	Identify the solution	Blame team members	Delay corrective action	Create further confusion	A	5
TOTAL										170

S.No.	NOS Code	NOS Details	Question Type	Question	Tasks to be Performed	Marks Assigned
1	CON/N0114	Carry out IPS/ Tremix flooring	Structured Practical Task	Demonstrate how you will carry out Tremix flooring using vacuum dewatering.	1. Prepare and clean the base. 2. Place concrete evenly on surface. 3. Compact using vibrating screed. 4. Place the vacuum dewatering mat. 5. Remove excess water by vacuum. 6. Check surface uniformity and level.	60
2	CON/N0117	Place, level and finish concrete in various structural elements including repairs	Structured Practical Task	Demonstrate how you will level freshly placed concrete in a slab.	1. Identify the required finished level. 2. Set level markers or screed guides. 3. Place concrete slightly above level. 4. Spread concrete uniformly across surface. 5. Strike off using a straightedge. 6. Recheck the final level.	60
3	CON/N8001	Work effectively in a team to deliver desired results at the workplace	Structured Practical Task	Demonstrate how you will coordinate with your team during concrete work.	1. Understand the assigned task. 2. Discuss the work sequence. 3. Arrange required tools and materials. 4. Coordinate activities with team members. 5. Support members when required. 6. Complete work within the schedule.	70
4	CON/N8002	Plan and organize work to meet expected outcomes	Structured Practical Task	Demonstrate how you will organize tools and materials before starting work.	1. Review the assigned task. 2. Identify required tools and materials. 3. Check their quantity and condition. 4. Arrange materials at the workplace. 5. Keep tools safely accessible. 6. Report shortages to the supervisor.	70
5	CON/N9001	Work according to personal health, safety and environment protocols at construction site	Structured Practical Task	Demonstrate how you will manage construction waste in an environmentally safe manner.	1. Identify different waste materials. 2. Segregate waste at the source. 3. Reuse suitable materials where possible. 4. Collect waste in designated areas. 5. Prevent waste from entering drains. 6. Dispose waste as per procedures.	70
6	DGT/VSQ/N0101	Employability Skills (30 Hours)	Structured Practical Task	Demonstrate how you will make a financial transaction safely and securely using a digital payment service.	1. Open the official banking or payment application. 2. Verify the recipient's name and payment details. 3. Enter the correct transaction amount carefully. 4. Review all transaction details before confirming. 5. Authorise the payment using your secure PIN or authentication method. 6. Check the transaction status and keep the receipt securely.	30
TOTAL						360

S.No.	NOS Code	NOS Details	Question Type	Question	Suggested Answer	Marks Assigned for the Question
1	CON/N0114	Carry out IPS/ Tremix flooring	Oral Type	What is IPS flooring, and where is it commonly used?	IPS flooring is Indian Patent Stone flooring made using cement concrete. It provides a hard, smooth, durable surface and is commonly used in industrial buildings, workshops, corridors, and residential areas.	5
2				What is the main purpose of Tremix flooring?	Tremix flooring produces a dense, level, and wear-resistant concrete surface. Vacuum dewatering removes excess water, increases concrete strength, and makes the floor suitable for heavy-duty industrial applications.	5
3	CON/N0117	Place, level and finish concrete in various structural elements including repairs	Oral Type	What causes honeycombing in concrete, and how can it be repaired?	Honeycombing occurs due to poor compaction, improper placing, or congested reinforcement. Loose material is removed, the area cleaned, bonding applied, and repaired using suitable mortar or concrete.	5
4				Why is proper finishing important after placing and leveling concrete?	Proper finishing produces the required surface texture, improves appearance, removes irregularities, and prepares concrete for curing. It also helps achieve durability and satisfactory performance of structural elements.	5
TOTAL						20