



Model Curriculum

QP Name: Mason Concrete

QP Code: CON/Q0105

Version: 4.0

NSQF Level: 3.5

Model Curriculum Version: 4.0

Construction Skill Development Council of India || Tower 4B, DLF Corporate Park, 201&, 202 4B,
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Training Parameters

Sector	Construction
Sub-Sector	Real Estate and Infrastructure Construction
Occupation	Masonry
Country	India
NSQF Level	3.5
Aligned to NCO/ISCO/ISIC Code	NCO-2015/7114.9900
Minimum Educational Qualification and Experience	11th Grade pass OR Completed 1st year of 3-year diploma after 10 th OR 10th grade pass and pursuing continuous schooling OR 8th Grade pass with 3-year relevant experience OR Previous relevant Qualification of NSQF Level 2.5 with 3-year relevant experience OR Previous relevant Qualification of NSQF Level 3 with 1.5-year relevant experience
Pre-Requisite License or Training	NA
Minimum Job Entry Age	18 Years
Last Reviewed On	31/08/2023
Next Review Date	31/08/2026
NSQC Approval Date	31/08/2023
QP Version	4.0
Model Curriculum Creation Date	31/08/2023
Model Curriculum Valid Up to Date	31/08/2026
Model Curriculum Version	4.0



Minimum Duration of the Course	390 Hours
Maximum Duration of the Course	390 Hours



Program Overview

This section summarises the end objectives of the program along with its duration.

Training Outcomes

At the end of the program, the learner should have acquired the listed knowledge and skills to:

- Describe the process of carrying out IPS/ Tremix flooring.
- Elucidate ways to place, level and finish concrete in various structural elements including repairs.
- Explain the importance of working effectively in a team to deliver desired results at the workplace.
- Elucidate ways to plan and organize work to meet expected outcomes.
- Explain the process of managing workplace for safe and healthy work environment.

Compulsory Modules

The table lists the modules and their duration corresponding to the Compulsory NOS of the QP.

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
CON/N0114: Carry out IPS/ Tremix flooring NOS Version- 4.0 NSQF Level- 3.5	45:00	45:00	30:00	00:00	120:00
Module 1: Introduction to the role of a Mason Concrete	05:00	00:00	0:00	00:00	05:00
Module 2: Process of carrying out IPS/ Tremix flooring	40:00	45:00	30:00	00:00	115:00
CON/N0117: Place, level and finish concrete in various structural elements including repairs NOS Version- 4.0 NSQF Level- 3.5	60:00	60:00	30:00	00:00	150:00
Module 3: Process of placing, levelling and finishing concrete in various structural elements including repairs	60:00	60:00	30:00	00:00	150:00
CON/N8001: Work effectively in a team to	05:00	25:00	0:00	00:00	30:00



deliver desired results at the workplace NOS Version- 12.0 NSQF Level- 4					
Module 4: Work effectively in a team to deliver desired results at the workplace	05:00	25:00	0:00	00:00	30:00
CON/N8002: Plan and organize work to meet expected outcomes NOS Version- 9.0 NSQF Level- 4	05:00	25:00	0:00	00:00	30:00
Module 5: Plan and organize work to meet expected outcomes	05:00	25:00	0:00	00:00	30:00
CON/N9001: Work according to personal health, safety and environment protocols at construction site NOS Version- 10.0 NSQF Level- 4	05:00	25:00	0:00	00:00	30:00
Module 6: Follow safety norms as defined by organization, adopt healthy and safe work practices	05:00	25:00	0:00	00:00	30:00
DGT/VSQ/N0101: Employability Skills NOS Version- 1.0 NSQF Level- 2	30:00	00:00	0:00	00:00	30:00
Module 7: Employability Skills	30:00	00:00	0:00	00:00	30:00
Total Duration	150:00	180:00	60:00	00:00	390:00



Module Details

Module 1: Introduction to the role of a Mason Concrete

Mapped to CON/N0114 v4.0

Terminal Outcomes:

- Discuss the job role of a Mason Concrete.

Duration: 05:00	Duration: 0:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none">● Describe the size and scope of the Construction industry and its sub-sectors.● Discuss the role and responsibilities of a Mason Concrete.● Identify various employment opportunities for a Mason Concrete.	
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
NA	

Module 2: Process of carrying out IPS/ Tremix flooring

Mapped to CON/N0114 v4.0

Terminal Outcomes:

- Explain the process of preparing for IPS/ Tremix flooring.
- Elucidate ways to check the line, level and alignment.
- Elucidate ways to check the materials used for IPS/ Tremix flooring in manual mixing.
- Elucidate ways to check the materials used for IPS/ Tremix flooring in machine mixing.
- Describe the process of carrying out IPS flooring.
- Describe the process of carrying out Tremix/ VDF flooring.

Duration: 40:00	Duration: 45:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> ● Discuss the standard practices for masonry work and handling and storage of masonry tools, equipment and materials. ● Explain the importance of using personal protection and the use of relevant safety gear and equipment. ● Explain how to use masonry tools along with some specialized tools for Tremix flooring, such as vacuum de-watering pump, floater machine, double beam screen vibrator, etc. ● Describe the maintenance process of masonry tools and equipment. ● Describe the process of preparing the sub-base by watering and ramming. ● Explain the importance of providing adequate slope in PCC in a base. ● Explain how to make reference levels and transfer the markings to the required locations different type and grade of cement. ● Explain the importance of maintaining the correct ratio of water and cement in concrete mixture. ● State the different mix proportions/grades of concrete. ● State the sequence of concrete pouring and placing. ● Explain how to cover to reinforcement with respect to the 	<ul style="list-style-type: none"> ● Demonstrate how to mark reference level on the wall and transfer the marking to the floor locations using the appropriate tools. ● Demonstrate how to mark flooring thickness level and provide dummy level dots at the specified intervals to ensure the required slope. ● Demonstrate how to fix the glass, aluminium or brass strip in cement mortar with their tops at appropriate level and according to slope. ● Show how to remove excess cement slurry and any marks from the surface. ● Show how to level the concrete surface using the appropriate tool, e.g. a straight edge, and to the required finish with a wooden float/trowel. ● Demonstrate the process of installing construction joints and expansion joints as required. ● Show how to level the surface and lay stone soling/ boulder soling layer. ● Demonstrate how to lay the floor with slope maintained in PCC work above the stone soling. ● Demonstrate the process of carrying out Tremix flooring in the specified panel on RCC floors ensuring the rebar and cover are intact.

<p>size of reinforcement.</p> <ul style="list-style-type: none"> ● Describe the process of pouring concrete in alternate panels. ● Elucidate the appropriate measures to be followed to avoid shrinkage cracks in concrete. ● List different admixtures used in concreting. ● State the influence area and use of different type of vibrators. ● Elucidate the need of construction and expansion joints and the use of cutting tools for providing joints. ● Describe the toweling process to be carried out before concrete is hardened. ● Describe the process of removing excess water using vacuum de-watering pump. ● Explain the use of hardener along with floater machine during floor finishing to increase abrasion resistance of the floor. ● State how to provide space for narrow passage for operating float vibrator along a wall. 	<ul style="list-style-type: none"> ● Show how to create grooves on concrete at the specified intervals for construction joints and provide expansion joints as required. ● Demonstrate the process of carrying out curing of finished concrete as per the specifications and ensure finished levels have the required slope.
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Classroom Aids

Training Kit (Trainer Guide, Presentations). Whiteboard, Marker, Projector, Laptop

Tools, Equipment and Other Requirements

Hammer, Brick Chisel, Stone Chisel, Comb Chisel, Bolster Chisel, Masonry Hand Saw, Steel Trowel, Float (Wooden/Metal), Straight Edge (Aluminium), Wood/Rubber Mallet, Spade (Phawda Screeding), Mortar Pan (Ghamela), Corner Trowel, Pointer Trowel, Tuck Pointing Trowel, Line and Pins, Screed Board, Jointers, Steel Lever, Plumb Bob, Line String (Line Dori), Try Square, Spirit Level, Measuring Tape, Steel Or Wooden Scale, Tapered Rule, Gauge Box, Plate Compactor, Concrete Vibrator, Grouting Machine (Manual), Dewatering Machine (VDF), Groove Cutting Machine, Cement, Sand (Medium), Common Burnt Clay Brick (2nd Class), Coarse Aggregates, Rubble Stone (Natural Stone), Water Proofing Compound with Primer, Scaffold Set (Including All Components), Lifting Appliances (Wheel and Rope, Shackles, Sling, Belts), Wheel Barrows, Wooden Sleepers, Rhombus Mesh, Expanded Metal Mesh, Mixing Plat Form (3'X5'), Plasticizers, Red Oxide, Safety Helmet, Face Shield, Safety Goggles, Safety Shoes, Safety Belt, Ear Plugs, Particle Masks, Overalls, Reflective Jackets, Pencil, Knee Pad, Safety Harness, Fire Extinguisher,



Fire Prevention Kit, First Aid Box, Safety Tags, Safety Notice Board / Safety Message Board, Safety Gloves



Module 3: Process of placing, levelling and finishing concrete in various structural elements including repairs

Mapped to CON/N0117 v4.0

Terminal Outcomes:

- Explain the process of preparing for pouring concrete.
- Elucidate ways to check the concreting materials.
- Describe the process of placing and compacting concrete on PCC and RCC structural elements.
- Elucidate ways to screed and level wet concrete.
- Elucidate ways to finish and cure concrete.
- Describe the process of carrying out concreting in pre-cast segments.
- Describe the process of carrying out repair on hardened concrete surfaces.

Duration: 60:00	Duration: 60:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> ● Explain the appropriate precautions and measures for working in wet concrete areas. ● Explain the use and interpretation of sketches related to concreting/ pre-casting and repairing work. ● Discuss the basic principles of measurement. ● Explain the basic properties of concrete including weight, slump and mix proportions. ● List the standard masonry concreting tools and their repair and maintenance process. ● Explain how to select and use basic tools, tackles and equipment, such as measuring tape, vibrator, shovels, rakes, screeding board/ tools, tamping tools (hand, rolling, etc.), bull float, etc. ● List different types and grade of cement. ● Explain the importance of maintaining the correct of water-cement ratio. ● Explain the use of different types of aggregates. ● State different mix proportion/grade 	<ul style="list-style-type: none"> ● Demonstrate how to adjust the pouring equipment as per requirements. ● Demonstrate the process of undertaking pouring of concrete in specified layers, ensuring to cover steel reinforcement. ● Show how to use vibrator within the influence depth as per the standard procedure. ● Show how to screed the concrete using the appropriate tools and technique, as per the requirement. ● Show how to push the excess concrete towards the formwork for easy removal and float the concrete using appropriate tools. ● Demonstrate the process of levelling the edges and corners for semi-finished concrete as per the requirement, using the appropriate tools. ● Demonstrate the process of installing construction/ control joints in concrete surface at the identified locations and cut the construction joints as per the specification and requirements. ● Demonstrate how to smoothen the surface using appropriate tools, to

<p>of concrete.</p> <ul style="list-style-type: none"> ● State the appropriate sequence of concrete pouring and placing. ● State the manual mixing of concrete and nominal mix proportions. ● Describe the process of covering reinforcement according to its size. ● Explain how to pour concrete in alternate panels and avoid shrinkage cracks in concrete. ● Explain the use of various admixtures in concreting. ● State the influence area, depth and use of different type of vibrators. ● List different types of construction and expansion joints. ● Explain the use of relevant cutting tools for providing joints. ● Explain how to carry out vibration in congested areas. ● Discuss the appropriate technique for pouring concrete in the form of layers. ● Elucidate the appropriate technique for vibrating concrete in a staggered manner. ● Elucidate the appropriate technique to avoid air pockets or voids in concreting. ● Elucidate the appropriate technique for screeding concrete and floating of concrete surface. ● State the appropriate technique and extent to which construction joints must be provided. ● Explain the importance of finishing concrete after initial setting of concrete/semi finished stage. ● Explain the importance and use of releasing agents on the formwork. ● List the materials required for pre-cast systems. ● Describe the appropriate curing 	<p>ensure a consistent and durable finish.</p> <ul style="list-style-type: none"> ● Demonstrate the process of applying a final finish on the surface as per requirements using the appropriate techniques, e.g. stamped concrete finish, stenciling concrete, finish broom finish, and rock salt finish. ● Demonstrate the process of installing provide shear key /vertical construction joint or cut construction joint as per the requirement. ● Demonstrate the process of installing barricades around the concrete area and prevent any damage to the poured concrete. ● Demonstrate the process of carrying out the vibration of concrete using internal/external vibrators as per applicability, ensuring all embedded parts are intact during vibration. ● Demonstrate the process of carrying out repair work under supervision. ● Demonstrate how to prepare suitable mortar for filing the air holes/ voids. ● Demonstrate the process of applying mortar and rub using Carborundum stone to obtain a flushed and smooth surface. ● Demonstrate the process of carrying out chipping of the surface to remove bulges and offsets as per requirement. ● Demonstrate the process of carrying out surface grinding to remove bulges and irregularities in concrete surface using sander/ grinder, ensuring grinding is performed within the acceptable levels. ● Show how to fill narrow/ wide cracks in concrete using appropriate filler/ compounds.
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<p>process to be followed based on the type of concreting work.</p> <ul style="list-style-type: none"> ● Explain how to protect concrete surface from direct contact with sun and prevent damage. ● Explain the basic details of pre-cast systems, such as element thickness, element geometry and need for joint matching to ensure the pre-cast segments are as per the requirement. ● Describe the process of cleaning pre-cast molds. ● Elucidate the importance and process of repairing concrete. ● List different types of defects found in concrete. ● Explain the appropriate technique for grinding concrete surface for a smooth finish. ● List the tools used for grinding concrete. ● Explain the appropriate technique for patching concrete for repair. ● Explain the use of different patching mortars and their mix proportions. ● Explain the use of different admixtures and mortars for repairing concrete. 	
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Classroom Aids

Training Kit (Trainer Guide, Presentations). Whiteboard, Marker, Projector, Laptop

Tools, Equipment and Other Requirements

Hammer, Brick Chisel, Stone Chisel, Comb Chisel, Bolster Chisel, Masonry Hand Saw, Steel Trowel, Float (Wooden/Metal), Straight Edge (Aluminium), Wood/Rubber Mallet, Spade (Phawda Screeding), Mortar Pan (Ghamela), Corner Trowel, Pointer Trowel, Tuck Pointing Trowel, Line and Pins, Scream Board, Jointers, Steel Lever, Plumb Bob, Line String (Line Dori), Try Square, Spirit Level, Measuring Tape, Steel Or Wooden Scale, Tapered Rule, Gauge Box, Plate Compactor, Concrete Vibrator, Grouting Machine (Manual), Dewatering Machine (VDF), Groove Cutting Machine, Cement, Sand (Medium), Common Burnt Clay Brick (2nd Class), Coarse Aggregates, Rubble Stone (Natural Stone), Water Proofing Compound with Primer, Scaffold Set (Including All Components), Lifting Appliances (Wheel and Rope, Shackles, Sling, Belts), Wheel Barrows, Wooden Sleepers, Rhombus Mesh, Expanded Metal Mesh, Mixing Plat Form (3'X5'), Plasticizers, Red Oxide, Safety Helmet, Face Shield, Safety Goggles, Safety Shoes, Safety Belt, Ear Plugs, Particle Masks, Overalls, Reflective Jackets, Pencil, Knee Pad, Safety Harness, Fire Extinguisher,



Fire Prevention Kit, First Aid Box, Safety Tags, Safety Notice Board / Safety Message Board, Safety Gloves



Module 4: Work effectively in a team to deliver desired results at the workplace

Mapped to CON/N8001 v12.0

Terminal Outcomes:

- Explain the importance of interacting and communicating in an effective manner.
- Elucidate ways to support co-workers to execute the project requirements.
- Elucidate ways to practice inclusion at workplace.

Duration: 05:00	Duration: 25:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> ● Elucidate own roles and responsibilities. ● Explain the importance of effective communication. ● Elucidate the consequence of poor teamwork on project outcomes, timelines, safety at the construction site, etc. ● Explain different modes of communication used at workplace. ● Explain the importance of creating healthy and cooperative work environment among the gangs of workers. ● Elucidate applicable techniques of work, properties of materials used, tools and tackles used, safety standards that co-workers might need as per the requirement. ● Explain the importance of proper and effective communication and the expected adverse effects in case of failure relating to quality, timeliness, safety, risks at the construction project site. ● Explain the importance and need of supporting co-workers facing problems for the smooth functioning of work. ● Discuss the fundamental concept of gender equality. ● Explain how to recognise and be sensitive to issues of disability, 	<ul style="list-style-type: none"> ● Demonstrate how to pass on work related information/ requirement clearly to the team members. ● Show how to report any unresolved problem to the supervisor immediately. ● Demonstrate ways to hand over the required material, tools, tackles, equipment and work fronts timely to interfacing teams. ● Demonstrate ways to work together with co-workers in a synchronized manner. ● Demonstrate effective implementation of gender neutral practices at workplace. ● Demonstrate ways to address discriminatory and offensive behaviour in a professional manner as per organizational policy.



<p>culture and gender.</p> <ul style="list-style-type: none">● Discuss legislation, policies, and procedures relating to gender sensitivity and cultural diversity including their impact on the area of operation.	
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
NA	



Module 5: Plan and organize work to meet expected outcomes

Mapped to CON/N8002 v9.0

Terminal Outcomes:

- Elucidate ways to plan and prepare for work.
- Explain the importance of organising required resources as per work plan.
- Explain the importance of completing work as per the plan.

Duration: 05:00	Duration: 25:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> ● Explain the importance of proper housekeeping including safe waste disposal. ● Discuss policies, procedures and work targets set by superiors. ● Explain how to identify work activities that need to be planned and organized. ● Explain how to determine the task requirements. ● Explain how to determine the quality requirements related to the task. ● Elucidate how to undertake all aspect of planning and organizing the task, including interpretation of task, reading drawing/schedules, arranging resources, reporting problems etc. ● Explain how to implement the planned activities. 	<ul style="list-style-type: none"> ● Demonstrate ways to determine the work requirements corresponding to task(drawings/schedules/instruction s/methodology), safety, tools and equipment prior to commencement of task. ● Show how to prepare the work areas in coordination with team members. ● Demonstrate the procedures for organizing the required materials, tools and tackles required for the task. ● Demonstrate how to use resources in an optimum manner to avoid any unnecessary wastage. ● Demonstrate the practices to use tools, tackles and equipment carefully to avoid damage. ● Show how to clean and organise the workplace after completion of task.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
NA	



Module 6: Work according to personal health, safety and environment protocols at construction site

Mapped to NOS CON/N9001 v10.0

Terminal Outcomes:

- Explain the importance of following safety norms as defined by organization.
- Explain the need to adopt healthy & safe work practices.
- Describe the process of implementing good housekeeping and environment protection process and activities.
- Explain the importance of following infection control guidelines as per applicability.

Duration: 05:00	Duration: 25:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> ● Describe the reporting procedures in cases of breaches or hazards for site safety, accidents, and emergency situations as per guidelines. ● Explain different types of safety hazards at construction sites. ● Discuss basic ergonomic principles as per applicability. ● Describe the procedure for responding to accidents and other emergencies at site. ● Explain the importance of handling tools, equipment, and materials as per applicable norms. ● Explain the effect of construction material on health and environments as per applicability. ● Describe various environmental protection methods as per applicability. ● Explain the storage requirement of waste including non-combustible scrap material and debris, combustible scrap material and debris, general construction waste and trash (non-toxic, non-hazardous), any other hazardous wastes and any other flammable wastes at the appropriate location. ● Explain how to use hazardous material in a safe and appropriate 	<ul style="list-style-type: none"> ● Demonstrate how to follow emergency and evacuation procedures in case of accidents, fires, natural calamities. ● Show how to operate different types of fire extinguishers corresponding to various types of fires as per EHS guideline. ● Demonstrate the use of appropriate Personal Protective Equipment (PPE) as per work requirements for : Head Protection, Ear protection, Fall Protection ,Foot Protection, Face and Eye Protection, Hand and Body Protection , and Respiratory Protection (if required). ● Demonstrate how to check and install all safety equipment as per standard guidelines. ● Show how to collect, segregate and deposit construction waste into appropriate containers based on their toxicity or hazardous nature. ● Show how to clean and disinfect all materials, tools and supplies before and after use.

<p>manner as per applicability.</p> <ul style="list-style-type: none"> ● Explain types of fire. ● Describe the procedure of operating different types of fire extinguishers. ● State safety relevant to tools, tackles, and equipment as per applicability. ● List housekeeping activities relevant to task. ● Elucidate ways of transmission of infection ● Explain the ways to manage infectious risks at the workplace. ● Describe different methods of cleaning, disinfection, sterilization, and sanitization. ● List the symptoms of infection like fever, cough, redness, swelling, and inflammation. 	
<p>Classroom Aids:</p>	
<p>Black/White board, marker, Projector/LED Monitor, Computer, Trade specific charts, Safety tags, Safety Notice board, registers and other teaching aids</p>	
<p>Tools, Equipment and Other Requirements</p>	
<p>Leather Hand Gloves, Jump suit, Wire brush, Hand and Leg guard leather, Safety goggles, Nose mask, Ear protection, Fire extinguishers, Sand buckets Flashback arrestors, Welding helmet, Welding glass, Fire Extinguisher, Fire prevention kit, First Aid box, Safety tags, Safety Notice board</p>	



Module 7: Employability Skills

Mapped to NOS DGT/VSQ/N0101 v1.0

Duration: 30:00

Key Learning Outcomes

Introduction to Employability Skills Duration: 1 Hour

After completing this programme, participants will be able to:

1. Discuss the importance of Employability Skills in meeting the job requirements

Constitutional values - Citizenship Duration: 1 Hour

2. Explain constitutional values, civic rights, duties, citizenship, responsibility towards society etc. that are required to be followed to become a responsible citizen.

3. Show how to practice different environmentally sustainable practices

Becoming a Professional in the 21st Century Duration: 1 Hours

4. Discuss 21st century skills.

5. Display positive attitude, self -motivation, problem solving, time management skills and continuous learning mindset in different situations.

Basic English Skills Duration: 2 Hours

6. Use appropriate basic English sentences/phrases while speaking

Communication Skills Duration: 4 Hour

7. Demonstrate how to communicate in a well -mannered way with others.

8. Demonstrate working with others in a team

Diversity & Inclusion Duration: 1 Hour

9. Show how to conduct oneself appropriately with all genders and PwD

10. Discuss the significance of reporting sexual harassment issues in time

Financial and Legal Literacy Duration: 4 Hours

11. Discuss the significance of using financial products and services safely and securely.

12. Explain the importance of managing expenses, income, and savings.

13. Explain the significance of approaching the concerned authorities in time for any exploitation as per legal rights and laws

Essential Digital Skills Duration: 3 Hours

14. Show how to operate digital devices and use the associated applications and features, safely and securely

15. Discuss the significance of using internet for browsing, accessing social media platforms, safely and securely

Entrepreneurship Duration: 7 Hours

16. Discuss the need for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges

Customer Service Duration: 4 Hours

17. Differentiate between types of customers

18. Explain the significance of identifying customer needs and addressing them

19. Discuss the significance of maintaining hygiene and dressing appropriately

Getting ready for apprenticeship & Jobs Duration: 2 Hours

20. Create a biodata

21. Use various sources to search and apply for jobs

22. Discuss the significance of dressing up neatly and maintaining hygiene for an interview

23. Discuss how to search and register for apprenticeship opportunities



Module 8: On-the-Job Training

Mapped to Mason Concrete

Mandatory Duration: 60:00	Recommended Duration: 00:00
Location: On-Site	
Terminal Outcomes <ul style="list-style-type: none">● Explain how to use masonry tools along with some specialized tools for Tremix flooring.● Explain the toweling process to be carried out before concrete is hardened.● Mark flooring thickness level and provide dummy level dots at the specified intervals to ensure the required slope.● Fix the glass, aluminium or brass strip in cement mortar with their tops at appropriate level and according to slope.● Level the concrete surface using the appropriate tool, e.g. a straight edge, and to the required finish with a wooden float/ trowel.● Install construction joints and expansion joints as required.● Carry out Tremix flooring in the specified panel on RCC floors ensuring the rebar and cover are intact.● Carry out curing of finished concrete as per the specifications and ensure finished levels have the required slope.● Screed the concrete using the appropriate tools and technique, as per the requirement.● Install construction/ control joints in concrete surface at the identified locations and cut the construction joints as per the specification and requirements.● Install barricades around the concrete area and prevent any damage to the poured concrete.● Carry out the vibration of concrete using internal/external vibrators as per applicability.	

Annexure

Trainer Requirements

Trainer Prerequisites						
Minimum Educational Qualification	Specialisation	Relevant Industry Experience		Training Experience		Remarks
		Years	Specialization	Years	Specialization	
B. Tech	Civil/Mechanical/ Electrical	2	Masonry	0	-	
Diploma	Civil/Mechanical/ Electrical	3	Masonry	0	-	
ITI	Civil/Mechanical/ Electrical	6	Masonry	0	-	
General BA/BSc./ EX-Army/ 12th	Civil/Mechanical/ Electrical	6	Masonry	0	-	

Trainer Certification	
Domain Certification	Platform Certification
Certified for Job Role “Mason Concrete”, mapped to QP: “CON/Q0105, v4.0”, Minimum accepted score is 80%	Recommended that the Trainer is certified for the Job Role: “Trainer (Vet and Skills)”, mapped to the Qualification Pack: “MEP/Q2601, v2.0”. The minimum accepted score as per MEPSC guidelines is 80%.

Assessor Requirements

Assessor Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks
		Years	Specialization	Years	Specialization	
B. Tech	Civil/Mechanical/ Electrical	2	Masonry	0	-	
Diploma	Civil/Mechanical/ Electrical	5	Masonry	0	-	
ITI	Civil/Mechanical/ Electrical	7	Masonry	0	-	

Assessor Certification	
Domain Certification	Platform Certification
Certified for Job Role “Mason Concrete”, mapped to QP: “CON/Q0105 v4.0”, Minimum accepted score is 80%	Recommended that the Assessor is certified for the Job Role: “Assessor (Vet and Skills)”, mapped to the Qualification Pack: “MEP/Q2701, v2.0”, with a minimum score of 80%.



Assessment Strategy

This section includes the processes involved in identifying, gathering, and interpreting information to evaluate the Candidate on the required competencies of the program.

1. Assessment System Overview:

- Batches assigned to the assessment agencies for conducting the assessment on SIP
- The batch allocation Matrix prepared for each month based on previous months' performance of AAs, which determines the quantum of Assessment which can be allocated to each AA for a month
- Post allocation of assessment, Assessment agencies send the assessment confirmation to SSC
- Assessment agency deploys the ToA certified Assessor for executing the assessment
- SSC monitors the assessment process.

2. Testing Environment:

- A combination of Theory and practical/demonstration test is deployed to assess knowledge and Skill respectively of Learners.
- Assessment is conducted at Training center in in-person/offline mode
- For Skill assessment, environment is simulated to create a realistic Working Environment that should replicate the key features of the workplace. In job roles, where it is difficult to replicate the same, the OJT assessment is implemented.
- During the practical task, trainees are 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.
- Knowledge assessment is done through closed ended questions up to level 4 and from level 5 onwards, it is mixture of open ended and closed ended questions

3. Assessment Quality Assurance levels/Framework

- Assessment criteria is developed for each QP which acts as a guide for developing question set /banks
- Sample questions aligned with Assessment criteria for each QP are developed by SSC and validated by industry
- Taking reference of Assessment criteria and Sample Questions, AAs create the question bank which is further validated by SSC
- Questions are mapped to the specified assessment criteria
- It is mandatory that Assessor and Trainer must be ToA certified & ToT Certified respectively
- Continuous Monitoring through virtual and In-person mode are conducted to ensure the assessment is conducted as per stipulated process
- Process and Technical audit of assessment batches by quality team are conducted to avoid the errors in assessment process



- A well -defined comprehensive framework of NON-COMPLIANCE MATRIX is defined and implemented to identify the non-compliance made by assessor and AA and punitive actions are taken correspondingly.
- The capacity building sessions are conducted regularly for assessors and assessment agencies to update them about best practices in assessment

4. Types of evidence or evidence-gathering protocol:

- Post Assessment, the evidences are uploaded by Assessor to assessment agency and further assessment agency to SSC as per stipulated TAT
- Evidences are broadly the photographic and video graphic in nature
- Assessment agencies upload the evidence on SIP and detailed evidence on SSC digital platform (ZoHO)
- Evidences are; NOS wise-Geotagged photographs and videos of Theory Test & Practical Tasks, Attendance sheet, result summary sheet, group photographs.

5. Method of verification or validation:

- The process and technical audit of assessment batches are done by SSC
- Attendance of each candidate is verified and it is ensured that only those candidates are assessed by assessors who are meeting the stipulated minimum percentage of attendance
- The result of each candidate is verified, it is verified that that result on SIP are matching with respect to summary sheet submitted by AAs
- Under detailed technical audit for sample of batches, the knowledge and skill assessment results for each candidate is checked in technical aspect.
- All the evidences of batches are preserved on server of SSC digital platform

On the Job:

- On job training (OJT), candidates undergo training and leaning at actual workplace for a fixed period of time and a certain weightage of assessment is allocated out of total skill weightage of Qualification Pack for undergoing OJT as stipulated by CSDCI. This OJT score and assessors' end point score are combined to arrive at final Marking/grading of trainees' skill test. The OJT score is determined by Supervisor of company under which candidates undergo on job training.



References

Glossary

Term	Description
Declarative Knowledge	Declarative knowledge refers to facts, concepts and principles that need to be known and/or understood in order to accomplish a task or to solve a problem.
Key Learning Outcome	Key learning outcome is the statement of what a learner needs to know, understand and be able to do in order to achieve the terminal outcomes. A set of key learning outcomes will make up the training outcomes. Training outcome is specified in terms of knowledge, understanding (theory) and skills (practical application).
OJT (M)	On-the-job training (Mandatory); trainees are mandated to complete specified hours of training on site
OJT (R)	On-the-job training (Recommended); trainees are recommended the specified hours of training on site
Procedural Knowledge	Procedural knowledge addresses how to do something, or how to perform a task. It is the ability to work, or produce a tangible work output by applying cognitive, affective or psychomotor skills.
Training Outcome	Training outcome is a statement of what a learner will know, understand and be able to do it upon the completion of the training.
Terminal Outcome	Terminal outcome is a statement of what a learner will know, understand and be able to do upon the completion of a module. A set of terminal outcomes help to achieve the training outcome.



Acronyms and Abbreviations

Term	Description
QP	Qualification Pack
NSQF	National Skills Qualification Framework
NSQC	National Skills Qualification Committee
NOS	National Occupational Standards
CSDCI	Construction Skill development Council of India
MCQ	Multiple Choice Question
EHS	Environment Health and Safety
IPS	Indian Patent Stone
VDF	Vacuum Dewatering Flooring