







Model Curriculum

QP Name: Rigger - Precast Erection

QP Code: CON/Q0703

Version: 3.0

NSQF Level: 3.5

Model Curriculum Version: 3.0

Construction Skill Development Council of India || Tower 4B, DLF Corporate Park, 201&, 202 4B, Mehrauli-Gurgaon Rd, DLF Phase 3, Gurugram, Haryana 122002







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Training Parameters

Sector	Construction
Sub-Sector	Real Estate and Infrastructure Construction
Occupation	Rigging
Country	India
NSQF Level	3.5
Aligned to NCO/ISCO/ISIC Code	NCO-2015/7215.0100
Minimum Educational Qualification and Experience	 11th Grade pass OR Completed 1st year of 3-year diploma after 10th 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
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Model Curriculum Creation Date	31/08/2023
Model Curriculum Valid Up to Date	31/08/2026
Model Curriculum Version	3.0

3 | Rigger Precast Erection







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:

- Demonstrate the shifting of precast units.
- Demonstrate the process of providing support in the heavy lifting of precast units.
- Demonstrate how to unload, position and align the RCC precast components.
- Demonstrate grouting in RCC precast components.
- Demonstrate the application of caulking agents in RCC precast components.
- Explain how to interact and communicate effectively with co-workers, superiors and subordinates.
- Explain how to plan and organize work to meet the expected outcomes.
- Explain the applicable measures to ensure health and safety at construction sites.
- Explain the appropriate employability skills.

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/N0709: Provide support in heavy lifting of precast units NOS Version- 3.0 NSQF Level- 3.5	35:00	25:00	30:00	00:00	90:00
Module 1: Introduction to the role of Rigger Precast Erection	05:00	00:00	00:00	00:00	05:00
Module 2: Providing support in heavy lifting of precast units	30:00	25:00	30:00	00:00	85:00
CON/N0710: Unload, position and align RCC precast components NOS Version- 3.0 NSQF Level- 3.5	30:00	30:00	30:00	00:00	90:00







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Module 3: Unloading, positioning and alignment of RCC precast components	30:00	30:00	30:00	00:00	90:00
CON/N0711: Apply grout and caulking agents in RCC precast components NOS Version- 3.0 NSQF Level- 3.5	40:00	50:00	00:00	00:00	90:00
Module 4: Application of grout and caulking agents in RCC precast components	40:00	50:00	00:00	00:00	90:00
CON/N8001: Work effectively in a team to deliver desired results at the workplace NOS Version- 12.0 NSQF Level- 4	05:00	25:00	0:00	00:00	30:00
Module 5: 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 6: 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 7: 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 8: 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 Rigger Precast Erection

Mapped to CON/N0709 v3.0

Terminal Outcomes:

• Discuss the job role of a Rigger Precast Erection.

Duration: 05:00	Duration: 0:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 Describe the size and scope of the Construction industry and its sub- sectors. 	
 Discuss the role, responsibilities and personal attributes of a Rigger Precast Erection. 	
 Identify the employment and career progression opportunities for a Rigger Precast Erection. 	
• Recall the basic terms used in rigging.	
Classroom Aids	
Training Kit - Trainer Guide, Presentations, White	board, Marker, Projector, Laptop, Video Films
Tools, Equipment and Other Requirements	
NA	







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Module 2: Providing support in heavy lifting of precast units

Mapped to CON/N0709 v3.0

Terminal Outcomes:

- Demonstrate the process of shifting precast units.
- Explain the process of preparing for lifting precast units.
- Explain the support required in heavy lifting work.

Duration: 30:00	Duration: 25:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 Explain the basic principles of measurement, geometry and arithmetic calculation. List different units of measurement. Elaborate on the process of converting the units of linear measurement. Explain the working mechanism of load-lifting equipment, such as cranes, winches, etc. Explain the criteria for the selection of appropriate rigging gear for heavy material shifting for precast units Explain the common types of damage sustained by precast units during shifting, e.g. chipped edges, cracks, blemishes, stains, etc. Show how to unload precast units safely at the specified location. List the appropriate lifting gear, tools, tackles and PPE for lifting precast units. Explain the importance of inspecting the rigging gear for safe condition before use. Explain the importance of placing lifting equipment and precast components at a safe distance from overhead power or service lines. Explain the importance of appropriate barricading and safety signage at the precast lifting site. Describe the process of preparing the base for lifting equipment and precast units to be lifted. Explain the nature of the base level and compaction required for equipment during lifting. 	 Demonstrate how to anchor precast units and hook up with the prescribed lifting equipment using slings, shackles, rope or lifting hooks, etc. Show how to tie down the precast units to the transporting vehicle using chains, binders, belts etc. Show how to unload precast units safely at the specified location. List the appropriate lifting gear, tools, tackles and PPE for lifting precast units. Demonstrate how to attach slings, lifting belts, shackles, hooks and tag lines to the load for lifting. Show how to control the position of suspended loads using tag line. Show how to interpret different gestures/ signals by the signalperson during load lifting. Demonstrate the appropriate checks to be performed on rigging gear to ensure it is safe for use. Show how to prepare the base for the movement of lifting equipment. Demonstrate how to attach a load to the lifting equipment using appropriate tools and rigging gears. Demonstrate the unloading of load from the lifting equipment safely.







Training Kit (Trainer Guide, Presentations). Whiteboard, Marker, Projector, Laptop Tools, Equipment and Other Requirements

Spud Wrenches, Open-End Wrenches, Crescent Wrenches, Hammer, Nibbler, Pliers, Impact Wrench, Drilling Machine with Bits, Electric Screw Gun, Electric Hexa Saw, Measuring Tape, Plumb Bob, Spirit Level, Chalks Line, Try Square, Water Level, Safety Helmet, Safety Goggles, Safety Shoes, Safety Belt, Cotton Gloves, Ear Plugs, Reflective Jackets, Dust Mask, Fire Prevention Kit, Barricade Tape, Safety Tags, Scrappers, Wire Brushes, Caulking Gun, Caulking Iron, Caulking Mallet, Tower Crane, Mobile Crane, Forklift, Scissor Lift, Hydraulic Jacks, Electric Wire Rope Hoist, Electrical Winch, Electrical Chain Hoist, Slings, Wire Ropes, Shackles, Spreader Board, Chain, Link, Eye Hook, Eye Bolts, Bull Dog Grips, Clamp, Socket, Grouting Gun/ Pump





Module 3: Unloading, positioning and alignment of RCC precast components Mapped to CON/N0710 v3.0

Terminal Outcomes:

• Demonstrate the process of unloading, positioning and aligning RCC precast components.

Duration: 30:00	Duration: 30:00	
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes	
 Explain the appropriate preparations required for unloading precast units at the location of erection. 	• Demonstrate the process of lifting precast units into the required position to an appropriate elevation.	
 Explain the benefit of placing shims and bearing pads at appropriate locations. 	• Demonstrate the use of guy lines and hook to guide precast units into	
• Explain the importance of cleaning bolts and inserts.	position.Show how to unload steel units at the	
 Elaborate on the use of relevant PPE and appropriate safety measures to be taken while working at heights. 	 specified location. Demonstrate how to install temporary bracing supports and connections, such 	
 Explain the use of relevant hand tools for material lifting. 	as pony clamps, tilt-up jacks, and turnbuckles to stabilize precast units.	
• Describe the use of rigging tools to lift structural steel sections or assemblies.	• Show how to check the vertical and horizontal alignment of precast units using the relevant measuring tools.	

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

Tools, Equipment and Other Requirements

Spud Wrenches, Open-End Wrenches, Crescent Wrenches, Hammer, Nibbler, Pliers, Impact Wrench, Drilling Machine with Bits, Electric Screw Gun, Electric Hexa Saw, Measuring Tape, Plumb Bob, Spirit Level, Chalks Line, Try Square, Water Level, Safety Helmet, Safety Goggles, Safety Shoes, Safety Belt, Cotton Gloves, Ear Plugs, Reflective Jackets, Dust Mask, Fire Prevention Kit, Barricade Tape, Safety Tags, Scrappers, Wire Brushes, Caulking Gun, Caulking Iron, Caulking Mallet, Tower Crane, Mobile Crane, Forklift, Scissor Lift, Hydraulic Jacks, Electric Wire Rope Hoist, Electrical Winch, Electrical Chain Hoist, Slings, Wire Ropes, Shackles, Spreader Board, Chain, Link, Eye Hook, Eye Bolts, Bull Dog Grips, Clamp, Socket, Grouting Gun/ Pump





Module 4: Application of grout and caulking agents in RCC precast components

Mapped to CON/N0711 v3.0

Terminal Outcomes:

- Demonstrate the process of grouting RCC precast components.
- Demonstrate the application of caulking agents in RCC precast components using the appropriate tools.

Duration: 40:00	Duration: 50:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 Explain the ideal surface conditions for grouting and caulking. Explain the use of shutters and sealant around joints, and flowable grout to avoid leakage and resist grouting pressure. Explain the use of primer and appropriate precautions to prevent staining at the exposed face of the precast unit. Explain the appropriate methods for caulking different types of surfaces. Elaborate on the appropriate personal protection measures to be taken during caulking. State the appropriate mix proportion of caulking agents to prepare the approved mix. 	 Show how to clean the identified surface using water, brush, scrapper and other prescribed tools and materials before grouting or caulking. Demonstrate how to prepare concrete surfaces for grouting by applying purging, priming and bonding agents. Demonstrate the process of applying grout in appropriate locations using the relevant hand tools. Demonstrate the basic repair and maintenance of grouting and caulking tools. Show how to fill precast joints using appropriate filler materials. Show how to mix caulking and colouring using appropriate tools to achieve the approved sample. Demonstrate the use of a caulking gun to apply caulking agents to joints, taking the appropriate measures to eliminate air pockets or voids. Show how to use appropriate tools such as merging trowels, putty knives or wooden sticks for caulking.

Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films

Tools, Equipment and Other Requirements

Spud Wrenches, Open-End Wrenches, Crescent Wrenches, Hammer, Nibbler, Pliers, Impact Wrench, Drilling Machine with Bits, Electric Screw Gun, Electric Hexa Saw, Measuring Tape, Plumb Bob, Spirit Level, Chalks Line, Try Square, Water Level, Safety Helmet, Safety Goggles, Safety Shoes, Safety Belt, Cotton Gloves, Ear Plugs, Reflective Jackets, Dust Mask, Fire Prevention Kit, Barricade Tape, Safety







Tags, Scrappers, Wire Brushes, Caulking Gun, Caulking Iron, Caulking Mallet, Tower Crane, Mobile Crane, Forklift, Scissor Lift, Hydraulic Jacks, Electric Wire Rope Hoist, Electrical Winch, Electrical Chain Hoist, Slings, Wire Ropes, Shackles, Spreader Board, Chain, Link, Eye Hook, Eye Bolts, Bull Dog Grips, Clamp, Socket, Grouting Gun/ Pump







Module 5: 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 in the workplace.

Duration: 05:00	Duration: 25:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 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, culture and gender. 	 Demonstrate how to pass on work-related information/ requirements 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.







 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 6: Plan and organize work to meet expected outcomes Mapped to CON/N8002 v9.0

Terminal Outcomes:

- Demonstrate prioritizing of work activities to achieve the desired productivity. •
- Demonstrate organizing of resources as per work plan prior to commencement of work. •

Duration: 05:00	Duration: 25:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 Explain methods to upkeep, store and stack tools, materials used for domain specific works. Explain the process of planning of the given tasks and activities relevant to the trade/job role within defined scope and duration. Explain the procedure adopted for prioritizing an activity and sequencing of activities. Explain the work plan and flow of activities in sequence for the assigned work. Explain basic concept of labour productivity and work productivity. Explain requisition of resources, reporting for requirement of resources orally and in written to concerned authority. Explain how to minimise wastage of resources. Explain the plan for waste collection and disposal after task. 	 Identify the work target and plan activities to achieve the desired productivity. Demonstrate requisition of resource citing an example. Demonstrate the planning for various activities relevant to task as per the scope and schedule. Demonstrate how to organise the required tool, manpower and material resources for the assigned task. Select required quantity of materials, tools or devices for defined work activities. Demonstrate how to prioritize all works/ activities to maximise output. Demonstrate waste collection and disposal as per organisational norms. Demonstrate completion of work within stipulated time and plan.
Classroom Aids	

Tools, Equipment and Other Requirements

NA







Module 7: Work according to personal health, safety and environment protocols at construction site *Mapped to CON/N9001 v10.0*

Terminal Outcomes:

- Explain the importance of following safety norms as defined by the 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		
 Describe the reporting procedures in cases of breaches or hazards for site safety, accidents, and emergency situations as per guidelines. 	 Demonstrate how to follow emergency and evacuation procedures in case of accidents, fires, natural calamities. 		
 Explain different types of safety hazards at construction sites. Discuss basic ergonomic principles as per applicability. 	 Show how to operate different types of fire extinguishers corresponding to various types of fires as per EHS guideline. 		
 Describe the procedure for responding to accidents and other emergencies at site. 	 Demonstrate the use of appropriate Personal Protective Equipment (PPE) as per work requirements for: Head Protection, Ear protection, Fall 		
 Explain the importance of handling tools, equipment, and materials as per applicable norms. 	Protection, Foot Protection, Face and Eye Protection, Hand and Body Protection, and Respiratory		
• Explain the effect of construction material on health and environments as per applicability.	 Protection (if required). Demonstrate how to check and install all safety equipment as per standard guidelines. 		
 Describe various environmental protection methods as per applicability. Explain the storage requirement of 	 Show how to collect, segregate and deposit construction waste into appropriate containers based on 		
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.	 their toxicity or hazardous nature. Show how to clean and disinfect all materials, tools and supplies before and after use. 		
 Explain how to use hazardous material in a safe and appropriate 			

manner as per applicability.









- 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
- Describe different 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.

Classroom Aids:

Black/White board, marker, Projector/LED Monitor, Computer, Trade specific charts, Safety tags, Safety Notice board, registers and other teaching aids

Tools, Equipment and Other Requirements

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







Module 8: Employability Skills Mapped to 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.

5. Display a 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 9: On-the-Job Training Mapped to Rigger Precast Erection

Mandatory Duration: 60:00	Recommended Duration: 00:00
ocation: On-Site	
erminal Outcomes	
• Provide support in heavy lifting an	d shifting of precast units.
• Unload, position and align RCC pre	cast components as per the given instructions.
• Prepare different types of surfaces	for grouting and caulking.
• Apply grout and caulking agents in	RCC precast components using the appropriate tools.
• Work effectively in a team to deliv	er the desired results.
• Plan and organize work to meet ex	vpected outcomes
 Plan and organize work to meet ex 	pected outcomes.









Trainer Requirements

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

Trainer Certification			
Domain Certification	Platform Certification		
Certified for Job Role "Rigger - Precast Erection", mapped to QP: "CON/Q0703, v3.0", 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	Specialization	Releva Experi	nt Industry ence	,		Remarks
Qualification		Years	Specialization	Years	Specialization	
B. Tech	Civil/Mechanical/ Electrical	2	Rigging	0	-	
Diploma	Civil/Mechanical/ Electrical	5	Rigging	0	-	
ITI	Civil/Mechanical/ Electrical	7	Rigging	0	-	

Assessor Certification				
Domain Certification	Platform Certification			
Certified for Job Role "Rigger - Precast Erection",	Recommended that the Assessor is certified for the			
mapped to QP: "CON/Q0703, v3.0", the Minimum	Job Role: "Assessor (Vet and Skills)", mapped to the			
accepted score is 80%	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.









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).
(M) TLO	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