QUALIFICATION FILE

Supervisor Structure (Technical)

☒ Short Term Training (STT) ☐ Long Term Training (LTT) ☐ Apprenticeship

☒ Upskilling ☐ Dual/Flexi Qualification ☒ For ToT ☒ For ToA

☒ General ☐ Multi-skill (MS) ☐ Cross Sectoral (CS) ☐ Future Skills ☐ OEM

NCrF/NSQF Level: 5.5

Submitted By:

Construction Skill Development Council of India

Address: CPB - 201 & 202, Block-4B, DLF Corporate Park, Phase - III, MG Road, Near Guru Dronacharya Metro Station, Gurugram, Haryana - 122002

Submitting Body Contact Details:

Name:	Abhisek Prasad Mishra
Position in the Organization:	Deputy Manager - Standards & Research
Address:	Same as above
Tel number(s):	0124-4513915-18 Ext-23
E-mail address:	abhisek@csdcindia.org

Table of Contents

Section 1: Basic Details

1.	**Qualification Name**	**Supervisor Structure (Technical)**	
2.	**Sector/s**	**Construction**	
3.	**Type of Qualification:** ☐ **New** ☒ **Revised** ☐ **Has Electives/Options** ☐ **OEM**	**NQR Code & version of existing/previous qualification:** (QG-5.5-CO-03396-2024-V1.1-CSDCI, v 3.0*)*	**Qualification Name of existing/previous version:** Supervisor Structure (Technical)
4.	**a. OEM Name** **b. Qualification Name** (*Wherever applicable)*	NA	
5.	**National Qualification Register (NQR) Code &Version** (*Will be issued after NSQC approval)*	QG-06-CO-03961-2025-V2-CSDCI & v 4.0	**6. NCrF/NSQF Level:** *5.5*
7.	**Award (Certificate/Diploma/Advanced Diploma/ Any Other** *(Wherever applicable specify multiple entry/exits also & provide details in annexure)*	**Certificate**	
8.	**Brief Description of the Qualification**	A Supervisor Structure (Technical) is responsible for planning, managing and allocating resources for various structural works at construction sites; supervising and monitoring concreting, bar bending, system shuttering carpentry and scaffolding activities while ensuring adherence to the applicable health, safety and environmental practices.	
9.	**Eligibility Criteria for Entry for Student/Trainee/Learner/Employee**	**a. Entry Qualification & Relevant Experience:**	

S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicabl
1.	Completed 3rd year of 3-year/ 4-year UG (B.E. / B.Tech in Civil Engineering)	
2.	Completed 2-year diploma after 12th (in Civil Engineering)	1-year relevant experience

		3.	Completed 2nd year of 3-year UG (B.E. / B.Tech in Civil Engineering)	1-year relevant experience
		4.	Completed 3-year diploma (after 10th) (in Civil Engineering)	2-year relevant experience
		5.	12th Grade pass	3-year relevant experience
		6.	Previous relevant Qualification of NSQF Level 5 (Foreman – Concrete)	1.5-year relevant experience
		b. Min. Job Entry Age: As per Govt. Norms		
10.	**Credits Assigned to this Qualification, Subject to Assessment** *(as per National Credit Framework (NCrF))*	20	**11. Common Cost Norm Category (I/II/III)** *(wherever applicable)*: **I**	
12.	**Any Licensing requirements for Undertaking Training on This Qualification** *(wherever applicable)*	NA		
13.	**Training Duration by Modes of Training Delivery** *(Specify **Total Duration** as per selected training delivery modes and as per requirement of the qualification)*	☒ **Offline** ☐**Online** ☐**Blended**		

Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)
Classroom (offline)	270		330		600
Online					

(Refer Blended Learning Annexure for details)

14.	**Aligned to NCO/ISCO Code/s** *(if no code is available mention the same)*	NCO-2015/3112.9900

15.	**Progression path after attaining the qualification** *(Please show Professional and Academic progression)*	*Manager Structure (Technical)*	
16.	**Other Indian languages in which the Qualification & Model Curriculum are being submitted**	**Hindi**	
17.	**Is similar Qualification(s) available on NQR-if yes, justification for this qualification**	**☐ Yes ☒ No URLs of similar Qualifications:**	
18.	**Is the Job Role Amenable to Persons with Disability**	**☐ Yes ☒ No** **If "Yes", specify applicable type of Disability:**	
19.	**How Participation of Women will be Encouraged**	To encourage women to participate in Masonry job roles, it is important to provide education, mentorship, and networking opportunities, as well as training and development programs. Flexible work arrangements and promoting successful women in Masonry can also inspire and encourage women to pursue careers in this field. Creating a culture of inclusion and diversity can help women feel welcome and valued in Masonry job roles, through policies and practices that support work-life balance, equal pay and promotion opportunities, and a safe and respectful workplace.	
20.	**Are Greening/ Environment Sustainability Aspects Covered** *(Specify the NOS/Module which covers it)*	**☒ Yes ☐ No** CON/N9002	
21.	**Is Qualification Suitable to be Offered in Schools/Colleges**	**Schools ☐ Yes ☒ No Colleges ☒ Yes ☐ No**	
22.	**Name and Contact Details of Submitting / Awarding Body SPOC** *(In case of CS or MS, provide details of both Lead AB & Supporting ABs)*	Name: Abhisek Prasad Mishra Email: abhisek@csdcindia.org Contact No.: 0124-4513915-18 Ext-23 Website: www.csdcindia.org	
23.	**On-File Approval Date by NSQC: 07-05-2025**	**24. Validity Duration: 3 Years**	**25. Next Review Date: 30-04-2028**

Section 2: Module Summary

NOS/s of Qualifications

(In exceptional cases these could be described as components)

Mandatory NOS/s:

Specify the training duration and assessment criteria at NOS/ Module level. For further details refer to the curriculum document.

***Th.**-Theory **Pr.**-Practical **OJT**-On the Job Training **Man.**-Mandatory **Rec.**-Recommended **Proj.**-Project*

S. No	NOS/Module Name	NOS/Module Code & Version *(if applicable)*	Core/ Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) *(if applicable)*
1.	Interpret drawings, specifications and standards for structural execution	CON/N0132 & V 4.0	Core	5.5	3	40	-	50	-	90	30	70	-	-	100	15
2.	Plan, supervise and monitor execution of system shuttering carpentry works	CON/N0134 & V 4.0	Core	5.5	3	30	-	60	-	90	30	70	-	-	100	15
3.	Plan, supervise and monitor execution of concreting works	CON/N0135 & V 4.0	Core	5.5	3	30	-	60	-	90	30	70	-	-	100	15

S. No	NOS/Module Name	NOS/Module Code & Version *(if applicable)*	Core/ Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) *(if applicable)*
4.	Plan, supervise and monitor execution of bar bending works	CON/N0136 & V 4.0	Core	5.5	3	30	-	60	-	90	30	70	-	-	100	15
5.	Plan, supervise and monitor execution of scaffolding works	CON/N0137 & V 4.0	Core	5.5	3	30	-	60	-	90	30	70	-	-	100	15
6.	Manage workplace for safe and healthy work environment	CON/N9002 & V 4.0	Non-Core	5	1	10	-	20	-	30	30	70	-	-	100	10
7.	Supervise, monitor and evaluate performance of subordinates at workplace	CON/N8003 & V 4.0	Core	5.5	1	10	-	20	-	30	30	70	-	-	100	10
8.	Employability Skills (90 Hours)	DGT/VSQ/N0103 & V 1.0	Non-Core	5	3	90	-	-	-	90	20	30	-	-	50	5
Duration (in Hours) / Total Marks					**20**	**270**	**-**	**330**	**-**	**600**	**230**	**520**	**-**	**-**	**750**	**100**

Elective NOS/s:

Specify the training duration and assessment criteria at NOS/ Module level. For further details refer to the curriculum document.
***Th.**-Theory **Pr.**-Practical **OJT**-On the Job Training **Man.**-Mandatory **Rec.**-Recommended **Proj.**-Project*

S. No	NOS/Module Name	NOS/Module Code & Version *(if applicable)*	Core / Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) *(if applicable)*
1.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Duration (in Hours) / Total Marks					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Optional NOS/s:

Specify the training duration and assessment criteria at NOS/ Module level. For further details refer to the curriculum document.

***Th.**-Theory **Pr.**-Practical **OJT**-On the Job Training **Man.**-Mandatory **Rec.**-Recommended **Proj.**-Project*

S. No	NOS/Module Name	NOS/Module Code & Version *(if applicable)*	Core / Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) *(if applicable)*
1.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Duration (in Hours) / Total Marks			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Assessment - Minimum Qualifying Percentage

*Please specify **any one** of the following:*

Minimum Pass Percentage – Aggregate at qualification level: 70 % *(Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)*

Minimum Pass Percentage – NOS/Module-wise: ___% *(Every Trainee should score specified minimum passing percentage in each mandatory and selected elective NOS/Module to successfully clear the assessment.)*

Section 3: Training Related

<table>
<tr><td>1.</td><td>Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)</td><td>
<table>
<tr><th rowspan="2">Minimum Educational Qualification</th><th rowspan="2">Specialization</th><th colspan="2">Relevant Industry Experience</th><th colspan="2">Preferable Training Experience</th></tr>
<tr><th>Years</th><th>Specialization</th><th>Years</th><th>Specialization</th></tr>
<tr><td>B.E. / B.Tech</td><td>Civil Engineering</td><td>5</td><td>Site Execution (Civil Work)</td><td>1</td><td>Masonry and Structural Analysis</td></tr>
<tr><td colspan="6">OR</td></tr>
<tr><td>Diploma</td><td>Civil Engineering</td><td>7</td><td>Site Execution (Civil Work)</td><td>1</td><td>Masonry and Structural Analysis</td></tr>
<tr><td colspan="6">OR</td></tr>
<tr><td>ITI</td><td>Relevant Trade</td><td>8</td><td>Site Execution (Civil Work)</td><td>1</td><td>Masonry and Structural Analysis</td></tr>
<tr><td colspan="6">OR</td></tr>
<tr><td>Graduation</td><td>in any Stream</td><td>8</td><td>Site Execution (Civil Work)</td><td>1</td><td>Masonry and Structural Analysis</td></tr>
<tr><td colspan="6">OR</td></tr>
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</td></tr>
</table>

<table>
<tr><td></td><td></td><td>
<table>
<tr><td>Ex-Army Graduate</td><td>in any Stream</td><td>8</td><td>Site Execution (Civil Work)</td><td>1</td><td>Masonry and Structural Analysis</td></tr>
</table>
</td></tr>
<tr><td>2.</td><td>Master Trainer’s Qualification and experience in the relevant sector (in years)
(as per NCVET guidelines)</td><td>
<table>
<tr><th rowspan="2">Minimum Educational Qualification</th><th rowspan="2">Specialization</th><th colspan="2">Relevant Industry Experience</th><th colspan="2">Preferable Training Experience</th></tr>
<tr><th>Years</th><th>Specialization</th><th>Years</th><th>Specialization</th></tr>
<tr><td>B.E. / B.Tech</td><td>Civil Engineering</td><td>6</td><td>Site Execution (Civil Work)</td><td>1</td><td>Masonry and Structural Analysis</td></tr>
<tr><td colspan="6">OR</td></tr>
<tr><td>Diploma</td><td>Civil Engineering</td><td>8</td><td>Site Execution (Civil Work)</td><td>1</td><td>Masonry and Structural Analysis</td></tr>
<tr><td colspan="6">OR</td></tr>
<tr><td>ITI</td><td>Relevant Trade</td><td>10</td><td>Site Execution (Civil Work)</td><td>1</td><td>Masonry and Structural Analysis</td></tr>
<tr><td colspan="6">OR</td></tr>
<tr><td>Existing TOT certified Trainer in Skill Qualification</td><td>Supervisor Structure (Technical)</td><td>2</td><td>Site Execution (Civil Work)</td><td>5</td><td>Masonry and Structural Analysis</td></tr>
</table>
</td></tr>
<tr><td>3.</td><td>Tools and Equipment Required for Training</td><td>☒Yes ☐No (If “Yes”, details to be provided in Annexure)</td></tr>
<tr><td>4.</td><td>In Case of Revised Qualification, Details of Any Upskilling Required for Trainer</td><td>As Applicable</td></tr>
</table>

Section 4: Assessment Related

1. Assessor's Qualification and experience in relevant sector (in years) *(as per NCVET guidelines)*

Minimum Educational Qualification	Specialization	Relevant Industry Experience	
		Years	Specialization
B.E. / B.Tech	Civil Engineering	6	Site Execution (Civil Work)
OR			
Diploma	Civil Engineering	8	Site Execution (Civil Work)
OR			
ITI	Relevant Trade	10	Site Execution (Civil Work)

2. Proctor's Qualification and experience in relevant sector (in years) *(as per NCVET guidelines)*

Minimum Educational Qualification	Specialization	Relevant Technical Experience	
		Years	Specialization
Graduation	In Relevant Stream	1	-
OR			
Diploma	In Relevant Stream	2	-

3. Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) *(as per NCVET guidelines)*

Minimum Educational Qualification	Specialization	Relevant Industry Experience	
		Years	Specialization
B.E. / B.Tech	Civil Engineering	10	Site Execution (Civil Work)
OR			
Diploma	Civil Engineering	13	Site Execution (Civil Work)

4.	**Assessment Mode** *(Specify the assessment mode)*	Offline
5.	**Tools and Equipment Required for Assessment**	☒Same as for training ☐ Yes ☐ No *(details to be provided in Annexure-if it is different for Assessment)*

Section 5: Evidence of the need for the Qualification

Provide Annexure/Supporting documents name.

1.	**Latest Skill Gap Study (not older than 2 years) (Yes/No):** Yes
2.	**Latest Market Research Reports or any other source (not older than 2 years) (Yes/No):** Yes
3.	**Government /Industry initiatives/ requirement (Yes/No):** Yes
4.	**Number of Industry validation provided:** 27
5.	**Estimated nos. of persons to be trained and employed:** 1,000 & 1,000
6.	**Evidence of Concurrence/Consultation with Line Ministry/State Departments:** *(*If "No", why): No, Last Communication was on 09/04/2025

Section 6: Annexure & Supporting Documents Checklist

Specify Annexure Name / Supporting document file name

1.	**Annexure:** NCrF/NSQF level justification based on NCrF level/NSQF descriptors *(Mandatory)*	Yes
2.	**Annexure:** List of tools and equipment relevant for qualification *(Mandatory, except in case of online course)*	Yes
3.	**Annexure:** Detailed Assessment Criteria *(Mandatory)*	Yes
4.	**Annexure:** Assessment Strategy *(Mandatory)*	Yes
5.	**Annexure:** Blended Learning *(Mandatory, in case selected Mode of delivery is "Blended Learning")*	No
6.	**Annexure:** Multiple Entry-Exit Details *(Mandatory, in case qualification has multiple Entry-Exit)*	No
7.	**Annexure:** Acronym and Glossary *(Optional)*	Yes
8.	**Supporting Document:** Model Curriculum *(Mandatory – Public view)*	Yes
9.	**Supporting Document:** Career Progression *(Mandatory - Public view)*	Yes
10.	**Supporting Document:** Occupational Map *(Mandatory)*	Yes
11.	**Supporting Document:** Assessment SOP *(Mandatory)*	Yes
12.	**Any other document you wish to submit:**	No

Annexure: Evidence of Level

NCrF/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCrF/NSQF level descriptor	NCrF/NSQF Level
Professional Theoretical Knowledge/Process	• Process of interpreting drawings, specifications and standards for structural execution • Process of planning, supervising and monitoring execution of system shuttering carpentry works • Process of planning, supervising and monitoring execution of concreting works • Process of planning, supervising and monitoring execution of bar bending works • Process of planning, supervising and monitoring execution of scaffolding works • Process of supervising, monitoring and evaluating performance of subordinates at workplace • Process of managing workplace for safe and healthy work environment	As detailed, the entire process followed by a Supervisor Structure (Technical) is to interpret of drawings, specifications and standards for structural execution; plan, supervise and monitor execution of system shuttering carpentry works; plan, supervise and monitor execution of concreting works; : plan, supervise and monitor execution of bar bending works; and plan, supervise and monitor execution of scaffolding works . As the work is routine and is repeated multiple times, the work becomes predictable. As the Supervisor Structure (Technical) are required to perform the task as per the required codes and standards following the method statement available for the task, they have a clear work situation.	5.5
Professional and Technical Skills/ Expertise/ Professional Knowledge	• Know the standard practices for structural works • Know the principles involved in reading and interpreting various relevant drawings	The knowledge required for an Supervisor Structure (Technical) is factual, as it is specific and limited to the knowledge of standard practices for structural works; principles involved in reading and interpreting various relevant drawings; basic principle of measurement, arithmetic and geometric calculations; terminology	5.5

	• Know the basic principle of measurement, arithmetic and geometric calculations • Understand the terminology used in concreting, scaffolding, bar-bending and shuttering carpentry works • Know how to calculate of required quantity of materials from relevant schematic working drawings • Understand the terminology used in formwork • Know the detailed working of any of the following formwork systems, RMD, TRAD, Peri And Doka systems • Know the use of tools, tackles, components and equipment required for installation and operation of climbing formwork • Know the types of formwork and their applications for basic and complex structures • Understand the common terminology used in reinforcement works • Know the tolerance limits for various types of reinforcement works as per Indian/international codes • Know the standard practices, materials, and methods of the scaffolding works • Know the methodology for estimation of required resource and material	used in concreting, scaffolding, bar-bending and shuttering carpentry works; calculation of required quantity of materials from relevant schematic working drawings; the terminology used in formwork; detailed working of any of the following formwork systems, RMD, TRAD, Peri And Doka systems; tools, tackles, components and equipment required for installation and operation of climbing formwork; types of formwork and their applications for basic and complex structures; terminology used in reinforcement works; tolerance limits for various types of reinforcement works as per Indian/international codes; standard practices, materials, and methods of the scaffolding works; methodology for estimation of required resource and material; types of scaffolds system such as pipe and couplers and other common customized system scaffold (frame scaffold) for basic and complex structures; process of indent; work methods which makes best use of relevant resource. Therefore, their knowledge is applicable to their field of work only.	

	• Know the different types of scaffolds system such as pipe and couplers and other common customized system scaffold (frame scaffold) for basic and complex structures • Understand the process of indent • Know how to determine work methods which makes best use of relevant resource		
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	• interpret details from Architectural GFC/ Shop drawings • interpret details from schedule of work • interpret specification and standards provided for relevant works • interpret all specification provided in the relevant drawing • interpret schedule provided for completion of work • calculate the requirement of tools, tackles, consumables, equipment and manpower relevant works • allocate manpower and ensure their productivity • check for completion of preparatory activities and coordinate between various departments • check and ensure quality of plywood & timber prior to use • ensure erected formwork is as per specified standards	As indicated the skill set is required to interpret details from Architectural GFC/Shop drawings; interpret details from schedule of work; interpret specification and standards provided for relevant works; interpret all specifications provided in the relevant drawing; interpret schedule provided for completion of work; calculate the requirement of tools, tackles, consumables, equipment, and manpower for relevant works; allocate manpower and ensure their productivity; check for completion of preparatory activities and coordinate between various departments; check and ensure quality of plywood & timber prior to use; ensure erected formwork is as per specified standards; check for bulking and loose formwork during concreting; examine concrete, after forms are stripped, and give instructions to workers to repair defects, such as roughness and honeycombed appearance; check and ensure the use of approved BBS for the execution of reinforcement work; check the quality of pre-fabricated reinforcement cage and the erection process; ensure completion of bar	5.5

	• check for bulking and loose formwork during concreting • examines concrete, after forms are stripped, and gives instruction to workers to repair defects, such as roughness and honeycombed appearance • check and ensure use of approved BBS for execution of reinforcement work • check the quality of pre-fabricated reinforcement cage and the erection process • ensure completion of bar bending works as per agreed time schedule and within applicable tolerance limits • supervise scaffolding task requiring high degree of skill • inspect work progress, equipment, or construction sites to verify safety or to ensure that specifications are met • check scaffold with respect to inspection checklist	bending works as per agreed time schedule and within applicable tolerance limits; supervise scaffolding tasks requiring a high degree of skill; inspect work progress, equipment, or construction sites to verify safety or to ensure that specifications are met; check scaffold with respect to inspection checklist.	
Broad Learning Outcomes/Core Skill	• Carry out interpretation of Drawings, Specifications and Standards for Structural Execution • Carry out the process of planning, supervising and monitoring execution of system shuttering carpentry works	The job holder is expected to carry out interpretation of Drawings, Specifications and Standards for Structural Execution; process of planning, supervising and monitoring execution of system shuttering carpentry works; process of planning, supervising and monitoring execution of concreting works; process of planning, supervising and monitoring execution of bar bending works; process of planning, supervising and monitoring execution of scaffolding works.	5.5

	• Carry out the process of planning, supervising and monitoring execution of concreting works • Carry out the process of planning, supervising and monitoring execution of bar bending works • Carry out the process of planning, supervising and monitoring execution of scaffolding works		
Responsibility	• The individual in this job role will be responsible for the below-mentioned activities: • Interpret drawings, specifications and standards for concreting, scaffolding, shuttering carpentry and bar bending and steel fixing operations • Plan and allocate resources for shuttering carpentry works • Procure approvals and prepare a checklist prior to and after commencement of work. • Supervise and ensure execution of system shuttering carpentry works in accordance with agreed work plan • Plan and allocate resources for concreting works • Procure approvals and prepare a checklist prior to and after commencement of concreting work.	A Supervisor Structure (Technical) is responsible for planning, managing and allocating resources for various structural works at construction sites; supervising and monitoring concreting, bar bending, system shuttering carpentry and scaffolding activities while ensuring adherence to the applicable health, safety and environmental practices.	5.5

	• Supervise and ensure execution of concreting works in accordance with agreed work plan • Plan and allocate resources for bar bending works • Procure approvals and prepare a checklist prior to and after commencement of work. • Supervise and ensure execution of bar-bending works in accordance with agreed work plan • Plan and allocate resources for scaffolding works • Procure approvals and prepare a checklist prior to and after commencement of work. • Supervise and ensure execution of scaffolding works in accordance with agreed work plan • Monitor and evaluate subordinates performance as per quality standards and timelines • Practice and promote gender inclusive behavior and leadership • Ensure effective implementation of health, safety and environment policies and procedures • Identify and respond to risks / fire and emergencies associated with the work practices and workplace		

	• Ensure sanitization and infection control guidelines are followed at construction site		

Annexure: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment

Batch Size: 30 Candidates

S. No.	Tool / Equipment Name	Unit	Quantity for specified Batch size
1.	Blackboard	Number	1
2.	Leather Hand Gloves	Number	30
3.	Safety Helmets	Number	30
4.	Face Shield	Number	30
5.	Overalls	Number	15
6.	Knee Pads	Number	15
7.	Safety Shoes	Pair	30
8.	Safety Belt	Number	30
9.	Safety Harness	Number	10
10.	Safety Gloves	Number	30
11.	Safety Goggles	Number	30
12.	Nose Masks	Number	30
13.	Ear Plugs	Number	30
14.	Reflective Jackets	Number	30

15.	Fire Extinguisher	Number	2
16.	Fire Prevention Kit	set	2
17.	Safety Tags	Number	5
18.	Sand Buckets with Sand	Number	5
19.	Safety Notice Board / Safety Message Board	Number	5
20.	First Aid Box	Number	2
21.	Jump Suit	Number	15
22.	Hand and Leg Guard Leather	Number	30
23.	Flashback Arrestors	Number	10
24.	Welding Helmet	Number	30
25.	Welding Glass	Number	30
27.	Measuring Tape - 5m	Number	30
28.	Calculators	Number	30
29.	Construction Drawings and Blueprints	Number	30
30.	Measuring Tape – 5m	Number	30
31.	Laser Distance Meters	Number	15

32.	Laser Level	Number	15
33.	Spirit Levels – 1 ft	Number	15
34.	Spirit Levels –3 ft	Number	15
35.	Marking Tools (Pencils, Markers)	Number	30
36.	Reinforcement Bar Schedules and Bending Diagrams	Number	30
37.	IS Codes- IS 456:2000 and IS 800:2007	Pair	10
38.	Digital Compression Testing Machine-(CTM)	Number	1

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. Training Kit (Trainer Guide, Presentations)
2. Whiteboard/ Blackboard
3. Marker
4. Projector
5. Working Model

Annexure: Industry Validations Summary

Provide the summary information of all the industry validations in the table. This is not required for OEM qualifications.

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile *(if available)*
1	Larsen and Toubro Ltd	J Raguraman	Head, CSTD	PB No 979, Mount Poonamallee Road, Manapakkam, Chennai, 600089	9943247482	jraguraman@lntecc.com	
2	National Academy of Construction	M Indra Kiran	Director	Near SS Convention Center, Labbipet, Vijayawada, Andhra Pradesh, PIN: 520010	984947 0249	nacaptrainings@gmail.com	
3	Indian Institute of Infrastructure and Construction	Prof. (Dr.) B. Sunil Kumar	Director, IIIC	Near Chavara Bridge, AMC, Puthanthura Post, Neendakara - 69L582, Kollam. Kerala	9895013924	director@iiic.ac.in	
4	JK Cement Ltd	Ashish Singh	General Manager	Kamla Tower, Kanpur Nagar, UP, 208001	9468837057	ashish.singh1@jkcement.com	
5	Kamac Engineers Pvt Ltd	Yudhajit Saha	Manager – Contracts & Planning	Ramkrishna Samity Building, Panitanki More, 40/107, Sevoke Rd, Ward 11, Near Pani Tanki More (Clock Tower), Siliguri, West Bengal 734001	8240040261	planning@kamac.in	
6	One Naga Construction Private Limited	Tunito Alex Zhimomi	CEO	DR.N. Theuno; Bayavu; Near N.B.S Office Area; Kohima; Kohima; Nagaland;	7005715093	alexzim881@gmail.com	

				797001; India			
7	OP Jindal Community College	Om Prakash Verma	Principal	O P Jindal Industrial Park, Tumidih, Chhattisgarh 496107		omprakash.verma@opjccraigarh.edu.in	
8	Poddar Infratech Pvt Ltd	Ms. Neha Devgan	Contracts Manager	202, Crowne Heights, Sector 10 , Rohini , New Delhi	8449521881	letters@poddarinfra.com	
9	Solidstone Constructions	Pragadeeshwaran R J	Principal Designer & Chief Execution (Civil)	7/2 Perumal Nagar, No4 Veerapandi, CBE – 19	7904788630	solidstone.projects@gmail.com	linkedin.com/in/pragadeeshwaran-r-j-6baab7193
10	Star Projects Services Pvt Ltd	H. Asgar	9811376288	K-108 A, First Floor, Above JD Saloon, Thokar No. 5, Abul Fazal Enclave Part –I, Jamia Nagar, Okhla, N. Delhi 25	9811376288	starprojectsservices@gmail.com	
11	Uralungal Labour Contract Co-operative Society	Prem Anand C	Deputy Manager, Learning & Development	Madappally College, Vadakara, 673102 Kozhikode - 673102. Kerala, India	8921763984	prem.anand@ulccs.com	
12	Route To Connect	Hrisikesh Kashyap	Founder	Bagharbari, Guwahati, Assam	8720905111	hrisi@rtsseven.in	
13	AK Consulting	Nirman Jain	Technical Head	6th Cross Rd, 1st Stage, Kadugondanahalli, Bengaluru, Karnataka 560045	7042447336	nirmanjain777@gmail.com	
14	Artificial Intelligence Technologies Ltd	Rohit Kumar Sharma	Sr. Developer	A-21 Kailash Colony, New Delhi – 110048	9927564461	rohit.sharma@aituniversal.com	

15	Asirbadh Projects and Infrastructure Limited	Kunwar Jee	GM (Projects)	A.G. Office Road, Doanda, Ranchi-834002, Jharkhand.	7858801901	ahplmd@yahoo.com	
16	Donge Project Management Consultants Pvt. Ltd.	Balkrishna Kulkarni	President	401, Imperial Heights, Akshar Chowk, OP Road, Vadodara	9819657656	balkrishna.kulkarni@dongrepmc.com	
17	Ephicacy Lifescience Analytics	Rahul Kumar Kaushik	Sr. Manager	2nd Main Rd, Sarvobhogam Nagar, Arekere, Bengaluru, Karnataka 560076	8859885973	rahul.Kaushik@ephicacy.com	
18	Freelance Architect (Individual Consultant)	Garvit Sharma	Architect	A-101 Radha Krishna Lane, Kaushambi, Ghaziabad, U.P	9971967901	grsharma97@gmail.com	
19	Institute of Management Technology	Sandeep Sharma	Chief Project Engineer & Senior Counsellor	Raj Nagar, Ghaziabad, UP, 201001	9810566031	sharma.sandyk@gmail.com	
20	Know How Schools	Dipesh Bafna	Partner	Know How Schools LLP, C 601, Royal Casa, Ravet, Pune, 412101	9405266123	learn@knowhowschools.com	
21	L& T Skill Trainers Academy	DK Sharma	Principal - CSTI	Larsen & Toubro Ltd. Near Custom House, Versova Creek Madh Jetty, Madh, Mumbai, 400061	7660986699	deepaks@lntecc.com	
22	LK Engicons	Sameer	Owner	114, Bhawanpur, Meerut, UP, 250001	9808170639	sales@lkengicons.com	
23	Manpower Group Services India	Durgesh Begariya	Head Branch Operations	Unit-4 A/1 and A/2, 4th Floor, Plot No. 6, Uppal Plaza, Jasola, New Delhi	9824054165	durgesh.b@manpower.co.in	

24	Senryaku Management Private Limited	Udit Kumar	Consultant	UTC031, DLF The Ultima, Sector 81, Gurugram, HR 122004	9690909024	udit.kau@gmail.com	
25	Shrikant Gajanan Mhatre -Consulting Engineer & Valuer	Shrikant Gajanan Mhatre	Consulting Engineer & Valuer	Reg. No. CCRDP / R / 2022 / APL/ 00305 Approved Valuer No. -LM / CAT - I/ F - 4860, C P No. -180. SHIV NIWAS / Sagar Society, Private High School Road I Pen -Raigad - Maharashtra -India . 402 107.	9689728209	sshri1000@gmail.com	
26	Sunbright Manpower Solutions Pvt. Ltd	Arun Kumar	Supervisor	Shop No. 3144, Main Road, Narasapura, Kolar Taluk, Bangalore, Karnataka, 563133	7338463588	bangalore@sunbrightgroup.com	
27	ATS Homekraft	Bhumit Kamboj	General Manager, Program	ATS HomeKraft, 4th Floor, ATS Tower, Plot no-16, Sector-135, Noida-201305	9873951040	bhumit.kamboj@homekraft.in	

Annexure: Training & Employment Details

Training and Employment Projections:

Year	Total Candidates		Women		People with Disability	
	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities
2025-26	100	100	20	20	Subject to the requirement of the Industry	Subject to the requirement of the Industry
2026-27	300	300	60	60	Subject to the requirement of the Industry	Subject to the requirement of the Industry
2027-28	600	600	120	120	Subject to the requirement of the Industry	Subject to the requirement of the Industry

Data to be provided year-wise for next 3 years

Training, Assessment, Certification, and Placement Data for previous versions of qualifications:

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed
V 2.0	2022-23	0	0	0	0	NA	NA	NA	NA	NA	NA	NA	NA
V 2.0	2023-24	88	61	36	36	NA	NA	NA	NA	NA	NA	NA	NA
V 2.0	2024-25	51	58	57	57	NA	NA	NA	NA	NA	NA	NA	NA

Applicable for revised qualifications only, data to be provided year-wise for past 3 years.

List Schemes in which the previous version of Qualification was implemented:

1. DDUGKY

Content availability for previous versions of qualifications:

☒ Participant Handbook ☒ Facilitator Guide ☐Digital Content ☐ Qualification Handbook ☐Any Other:

Languages in which Content is available: English

Annexure: Blended Learning

Blended Learning Estimated Ratio & Recommended Tools:

Refer NCVET "Guidelines for Blended Learning for Vocational Education, Training & Skilling" available on:
https://ncvet.gov.in/sites/default/files/Guidelines%20for%20Blended%20Learning%20for%20Vocational%20Education,%20Training%20&%20Skilling.pdf

S. No.	Select the Components of the Qualification	List Recommended Tools – for all Selected Components	Offline : Online Ratio
1	☐Theory/ Lectures - Imparting theoretical and conceptual knowledge		

2	☐Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners		
3	☐Showing Practical Demonstrations to the learners		
4	☐Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training		
5	☐Tutorials/ Assignments/ Drill/ Practice		
6	☐Proctored Monitoring/ Assessment/ Evaluation/ Examinations		
7	☐On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training		

Annexure: Detailed Assessment Criteria

Detailed assessment criteria for each NOS/Module are as follows:

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Interpret drawings, specifications and standards for structural execution	PC1. interpret details from Architectural GFC/ Shop drawings	30	70		
	PC2. interpret details from schedule of work				
	PC3. interpret specification and standards provided for relevant works				
	PC4. interpret all specification provided in the relevant drawing				
	PC5. interpret schedule provided for completion of work				
	PC6. read method statement for execution of work				
	PC7. interpret manufactures specification for operation of power tools				
	PC8. carry out calculation of required quantity of materials from relevant schematic working drawings				
	PC9. reproduce technical drawings as simplified hand sketches for explaining and providing clear instructions to subordinates				
	NOS Total	**30**	**70**		

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Plan, supervise and monitor execution of system shuttering carpentry works	*Plan and allocate resources for shuttering carpentry works*	10	20		
	PC1. interpret drawings, specification and standards for formwork				
	PC2. confirm work hours and requirement for shuttering carpentry works with concerned superior				
	PC3. calculate component wise requirement for formwork				
	PC4. calculate the requirement of tools, tackles, consumables, equipment and manpower for making and erection of formwork				

	PC5. determine method of lifting, route and mode of transportation of relevant materials				
	PC6. allocate manpower and ensure their productivity				
	Procure approvals and prepare checklist prior to and after commencement of work	10	20		
	PC7. notify concerned superior for resources and equipment requirement				
	PC8. take safety clearance from services and EHS department before commencing shuttering work				
	PC9. provide clearance and mobility order to subcontractors for mobilization of resource and material at next workspace				
	PC10. check for completion of preparatory activities and coordinate between various departments				
	PC11. carry out checks and fill checklist after completion of work				
	PC12. provide status information on work received, in progress, backlog, and work assignments completed as requirement				
	PC13. maintain records and files and prepare reports on labour deployment, work done and productivity				
	PC14. review estimates, prepares sketches and reports on labor expenditures and materials used				
	Supervise and ensure execution of system shuttering carpentry works in accordance with agreed work plan	10	30		
	PC15. assist in sequencing key activities related to shuttering carpentry works for making schedule				
	PC16. assist in planning of timeline for identified key activities				
	PC17. record carpenters' time and materials used for each job				
	PC18. supervise carpentry jobs requiring a high degree of skill				
	PC19. ensure survey works and preparatory works are complete so as to provide required level & reference				
	PC20. check and ensure quality of plywood & timber prior to use				
	PC21. ensure availability of all tools, components, materials and fixture for assembling of shutters				

	PC22. ensure shutter is fabricated as per workshop drawing				
	PC23. ensure erected formwork is as per specified standards				
	PC24. ensure that appropriate procedure is followed while erecting formwork and while installing necessary supports, braces, penetrations, embedded parts, etc				
	PC25. check provision for lifting arrangement are provided in case of lifting of heavy weight formwork				
	PC26. monitor installation of jump form system using cranes or hydraulic system				
	PC27. monitor operation of jump form system				
	PC28. monitor proper functioning of hydraulic jack and cranes				
	PC29. monitor rising of formwork using hydraulic jacks and cranes				
	PC30. ensure safe lifting and lowering of formwork material using cranes				
	PC31. ensure that formwork is dismantled sequentially and safety following manufacturer's instructions/ specification				
	PC32. Provide assistance on complex jobs and ensure proper erection and dismantling of shuttering and formwork system				
	NOS Total	**30**	**70**		

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Plan, supervise and monitor execution of concreting works	*Plan and allocate resources for concreting works*	10	20		
	PC1. interpret drawings, specification and standards for concreting work				
	PC2. confirm work hours and requirement for concreting works with concerned superior				
	PC3. calculate the requirement of tools, tackles, consumables, equipment and manpower for concreting work				
	PC4. determine method of lifting, route and mode of transportation of relevant materials from mixing point to pouring point				
	PC5. allocate manpower and ensure their productivity				

	Procure approvals and prepare checklist prior to and after commencement of concreting work	10	20		
	PC6. notify concerned superior for resources and equipment requirement				
	PC7. take safety clearance from services and EHS department before commencing concreting work				
	PC8. provide clearance and mobility order to subcontractors for mobilization of resource and material at next workspace				
	PC9. check for completion of preparatory activities and coordinate between various departments				
	PC10. carry out checks and fill checklist after completion of work				
	PC11. provide status information on work received, in progress, backlog, and work assignments completed as requirement				
	PC12. maintain records and files and prepare reports on labour deployment, work done and productivity				
	PC13. review estimates, prepares sketches and reports on labor expenditures and materials used				
	Supervise and ensure execution of concreting works in accordance with agreed work plan	10	30		
	PC14. inspect work progress, equipment, or construction sites to verify safety or to ensure that specifications are met				
	PC15. record information such as personnel, production, or operational data on specified forms or reports				
	PC16. coordinate with batching plant and construction site confirming continuity of supply of concrete				
	PC17. interpret specification sheets for information, such as sizes of aggregates and proportions of cement and water required, to ensure that concrete is mixed according to specifications				
	PC18. inspect bracing and shoring of concrete forms to ensure their stability before and during pouring				
	PC19. inspect the fixing and setting of pump line, machinery for pouring of concrete				

	PC20. record details of the concreting works covering grade of concrete, area and volume of pour, number of workers, tools and equipment deployed for work and achieved productivity				
	PC21. indicates positions for pouring chutes and runways, cranes, or paving machines to facilitate conveying concrete from mixer to forms				
	PC22. directs workers who spread, vibrate, screed, and float concrete to ensure that concrete is compacted to desired consistency and surface is finished to specified uniformity and smoothness				
	PC23. check for bulking and loose formwork during concreting				
	PC24. ensure execution of concreting in extreme hot/cold weather as per standard practices and specification				
	PC25. examines concrete, after forms are stripped, and gives instruction to workers to repair defects, such as roughness and honeycombed appearance				
	PC26. prescribe methods for curing concrete, such as covering surface of green (fresh) concrete with burlap, plastic, earth, straw, or chemical compound, to prevent green concrete from drying out rapidly or freezing				
	NOS Total	**30**	**70**		

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Plan, supervise and monitor execution of bar bending works	*Plan and allocate resources for bar bending works*	10	20		
	PC1. interpret drawings, specification and standards for bar bending works				
	PC2. confirm work hours and requirement for bar bending works with concerned superior				
	PC3. calculate the requirement of tools, tackles, consumables, equipment and manpower for bar bending works				
	PC4. determine method of lifting, route and mode of transportation of relevant materials from stock yard to erection point				

	PC5. allocate manpower and ensure their productivity				
	Procure approvals and prepare checklist prior to and after commencement of work	10	20		
	PC6. notify concerned superior for resources and equipment requirement				
	PC7. take safety clearance from services and EHS department before commencing bar bending work				
	PC8. provide clearance and mobility order to subcontractors for mobilization of resource and material at next workspace				
	PC9. check for completion of preparatory activities and coordinate between various departments				
	PC10. carry out checks and fill checklist after completion of work				
	PC11. provide status information on work received, in progress, backlog, and work assignments completed as requirement				
	PC12. maintain records and files and prepare reports on labour deployment, work done and productivity				
	PC13. review estimates, prepares sketches and reports on labor expenditures and materials used				
	Supervise and ensure execution of bar-bending works in accordance with agreed work plan	10	30		
	PC14. supervise bar bending task requiring high degree of skill				
	PC15. inspect work progress, equipment, or construction sites to verify safety or to ensure that specifications are met				
	PC16. record information such as personnel, production, or operational data on specified forms or reports				
	PC17. read and follow manufactures specification for operation of power tools and CNC machine for cutting and bending				
	PC18. carry out weighing of steel reinforcement before unloading at site in coordination with the stores				
	PC19.ensure standard practices for storing and stacking of reinforcement steel at the yard				
	PC20. monitor all reinforcement bars cutting and bending activity at yard				

	PC21. ensure bundling/tagging and stacking of cut and bent bars as per bar marking the BBS				
	PC22. ensure scaffolding is complete as per required / specified heights/requirements, method, load carrying capacity, etc				
	PC23. check and ensure use of approved BBS for execution of reinforcement work				
	PC24. optimize use of already available cut steel rods to minimize wastage				
	PC25. plan sequence of insertion and fixing of reinforcement bars for different types of structures				
	PC26. co-relate the sequence of reinforcement placing with fixing of inserts, sleeves, conduits and anchors				
	PC27. check quality of mechanical connections of reinforcement bars				
	PC28. check the quality of pre-fabricated reinforcement cage and the erection process				
	PC29. ensure reinforcement bars, cast-in items, corrugated sleeve pipes, recesses, lifting hooks and inserts are correctly positioned and properly secured, within specified tolerance levels				
	PC30. ensure that the joints and edges of the mould, bolts, stoppers, tie rods, side props and rubber seal are intact and properly secured				
	PC31. check for stiffening of cage before lifting for stacking/erection				
	PC32. ensure completion of bar bending works as per agreed time schedule and within applicable tolerance limits				
	NOS Total	**30**	**70**		

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Plan, supervise and monitor execution of Scaffolding works	*Plan and allocate resources for scaffolding works*	10	20		
	PC1. interpret drawings, specification and standards for scaffolding works				
	PC2. confirm work hours and requirement for scaffolding works with concerned superior				

	PC3. calculate quantity of various components for scaffolding				
	PC4. calculate the requirement of tools, tackles, consumables, equipment and manpower for bar bending works				
	PC5. determine method of lifting, route and mode of transportation of relevant materials from stock yard to erection point				
	PC6. allocate manpower and ensure their productivity				
	Procure approvals and prepare checklist prior to and after commencement of work	10	20		
	PC7. notify concerned superior for resources and equipment requirement				
	PC8. take safety clearance from services and EHS department before commencing scaffolding work				
	PC9. provide clearance and mobility order to subcontractors for mobilization of resource and material at next workspace				
	PC10. check for completion of preparatory activities and coordinate between various departments				
	PC11. carry out checks and fill checklist after completion of work				
	PC12. provide status information on work received, in progress, backlog, and work assignments completed as requirement				
	PC13. maintain records and files and prepare reports on labour deployment, work done and productivity				
	PC14. review estimates, prepares sketches and reports on labor expenditures and materials used				
	Supervise and ensure execution of scaffolding works in accordance with agreed work plan	10	30		
	PC15. supervise scaffolding task requiring high degree of skill				
	PC16. inspect work progress, equipment, or construction sites to verify safety or to ensure that specifications are met				
	PC17. record information such as personnel, production, or operational data on specified forms or reports				
	PC18. ensure completion of surveying, marking and other preparatory				

	arrangement				
	PC19. ensure that standard procedure is followed during erection of scaffold				
	PC20. ensure safe lifting and lowering of scaffold material manually or by using crane				
	PC21. ensure height of scaffold erected is within permissible limits				
	PC22. ensure all working platform are properly fixed for carrying out subsequent activity				
	PC23. check scaffold for rigidity and ensured stability				
	PC24. ensure scaffolds are used only for intended purpose				
	PC25. ensure maintenance of safety protocol while using or accessing scaffold				
	PC26. check all guardrails, toe board, walk way boards, fall protection are in place to ensure safety				
	PC27. check scaffold is tagged for its purpose (safe for use, unsafe for use, scaffold incomplete)				
	PC28. check and ensure scaffold is supported with permanent structure at regular interval as per standard practices				
	PC29. check scaffold with respect to inspection checklist				
	PC30. record details of erected scaffold and document inspection checklist				
	NOS Total	**30**	**70**		

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Supervise, monitor and	*Monitor and evaluate sub-ordinates performance as per quality standards and timelines*	**20**	**40**		

evaluate performance of subordinates at workplace	PC1. fix expected targets for the respective gang as per site requirements and allocate work to subordinates				
	PC2. establish expected performance standards and expectations for the respective gang of workers to meet the desired outcomes				
	PC3. inspect assigned work to the respected gang of workers through progressive checking				
	PC4. observe and verify the work activities performed by the subordinates at the construction site				
	PC5. monitor overall performance of subordinates on the designed measures to ensure quality requirements set by the concerned authority				
	PC6. ensure adherence to the organizational policies and procedures for all relevant construction activities by the workmen subordinations				
	Practice and promote gender inclusive behavior and leadership	**10**	**30**		
	PC7. promote a safe, supportive, inclusive and gender sensitive environment at workplace.				
	PC8. manage and facilitate capacity building to enable inclusion of all genders				
	PC9. take prompt corrective action in case of inappropriate behavior at workplace				
	Total Marks	**30**	**70**		

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Manage workplace for safe and healthy work environment	*Ensure effective implementation of health, safety and environment policies and procedures*	15	40		
	PC1. implement safe handling and stacking methods at workplace /store				
	PC2. ensure the adequate availability and placing of safety and protection installations at site				
	PC3. ensure that safe access ways are available at work place for movement of workers and materials				
	PC4. ensure the safe use of tools and tackles by teammates as per work requirements				
	PC5. ensure ergonomic principles are adopted by the teammates while lifting and shifting of construction materials, tools and equipment				
	PC6. ensure appropriate use of following Personal Protective Equipment (PPE) as per work requirement of head protection, ear protection, fall protection, foot protection, face and eye protection, hand and body protection, respiratory protection				
	PC7. maintain entry and exit pathways from confined spaces, excavated pits and other location as per safety				

	parameters/instructions				
	PC8. ensure proper housekeeping at workplace				
	PC9. ensure that subordinates adhere to health and safety plans				
	Identify and respond to risks / fire and emergencies associated with the work practices and workplace	10	20		
	PC10. identify any hazard at workplace and report/notify the same to appropriate authorities.				
	PC11. follow procedures for accident recording and reporting as per organizational and statuary requirements				
	PC12. ensure effective adherence to emergency response procedures / protocols				
	PC13. select and operate different types of fire extinguishers corresponding to types of fires as per EHS guideline				
	PC14. obtain 'height pass' clearance as per EHS guideline				
	PC15. implement control measures to reduce risks, meeting legislative requirements within the scope of own role and expertise, as per organizational policies				
	Ensure sanitization and infection control guidelines are followed at construction site	5	10		
	PC16. promote awareness about latest hygiene and sanitation regulations				
	PC17. ensure disinfection procedure related to material, tools and supplies are followed properly				
	PC18. respond to infection prevention and control and its non-compliance, within scope of own role or report to required personnel				
	Total Marks	**30**	**70**		

NOS / Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Employability Skills (90 Hours)	*Introduction to Employability Skills*	**1**	**1**		
	PC1. understand the significance of employability skills in meeting the job requirements				
	Constitutional values – Citizenship	**1**	**1**		
	PC2. identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices				
	Becoming a Professional in the 21st Century	**1**	**3**		
	PC3. explain 21st Century Skills such as Self- Awareness, Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc.				
	Basic English Skills	**2**	**3**		
	PC4. speak with others using some basic English phrases or sentences				
	Communication Skills	**1**	**1**		
	PC5. follow good manners while communicating with others				
	PC6. work with others in a team				
	Diversity & Inclusion	**1**	**1**		
	PC7. communicate and behave appropriately with all genders and PwD				
	PC8. report any issues related to sexual harassment				
	Financial and Legal Literacy	**3**	**4**		

	PC9. use various financial products and services safely and securely				
	PC10. calculate income, expenses, savings etc.				
	PC11. approach the concerned authorities for any exploitation as per legal rights and laws				
	Essential Digital Skills	**4**	**6**		
	PC12. operate digital devices and use its features and applications securely and safely				
	PC13. use internet and social media platforms securely and safely				
	Entrepreneurship	**3**	**5**		
	PC14. identify and assess opportunities for potential business				
	PC15. identify sources for arranging money and associated financial and legal challenges				
	Customer Service	**2**	**2**		
	PC16. identify different types of customers				
	PC17. identify customer needs and address them appropriately				
	PC18. follow appropriate hygiene and grooming standards				
	Getting ready for apprenticeship & Jobs	**1**	**3**		
	PC19. create a basic biodata				
	PC20. search for suitable jobs and apply				
	PC21. identify and register apprenticeship opportunities as per requirement				
	Total Marks	**20**	**30**		

Annexure: 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:**

   Assessment is done through CSDCI affiliated Assessment Agencies. Assessors are trained & certified by CSDCI after Training Of Assessor (TOA) program. Assessments is conducted to gauge and assess the trainee's skill and knowledge competency in the specified areas. The assessment will have both theory and practical components in 30:70 ratio for **Supervisor Structure (Technical)** job role.

   During the practical task, trainees are assessed on their workmanship, quality of finished product and time management. They will be graded for all their assessments based on the approved assessment strategy which is signed off by CSDCI. The Assessor submits an assessment plan to CSDCI prior to assessments.

   The assessment plan contains the following information:

   - What will be assessed, i.e. the competency based on each NOS based on theory and practical questions
   - How assessment will occur i.e. methods of assessment
   - When the assessment will occur
   - Duration of assessment
   - Where the assessment will take place i.e. context of the assessment (workplace/simulation)
   - The criteria for decision making i.e. those aspects that will guide judgments
   - Where appropriate, any supplementary criteria used to make a judgment on the level of performance.

2. **Testing Environment:**
   - Training partner shares the batch start date and end date, number of trainees and the job role.
   - Assessment will be fixed for a day after the end date of training. It could be next day or later. Assessment will be conducted at the training venue/test center.
   - The knowledge/theory assessments is conducted with proper seating arrangements with enough space between the candidates to prevent mal-practicing.
   - Question set for theory and practical will be distributed to each candidate by the Assessor. Theory testing will include multiple choice questions, pictorial question, etc. which will test the trainee on his theoretical knowledge of the subject. The skill /practical assessments will be conducted in the approved test centers. The training provider will ensure adequate tools and materials are available to conduct the practical test.
   - If number of candidates are more than 30, more assessors will be organized on same day to complete the assessment.

- The assessment has to comprise of two components, namely:
  - Knowledge assessment (theory/viva assessment)
  - Skill assessment (practical/hands-on skill assessment)

3. Mode of assessment:

- Demonstration/Practical for Performance /Skill Assessment
- Synoptic multiple-choice question test
- Viva for Knowledge Assessment

4. Performance/skill assessment:

- The performance/skill assessment will be conducted through demonstration/practical
- For the practical test trainees are assessed through a given task, which they have to complete correctly for them to be marked as passed.
- The assessment is 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.

5. Knowledge Assessment:

- The knowledge assessments are conducted through written test/ viva.
- Synoptic test is used for this. It is an MCQ (Multiple Choice Question) test which are prepared externally and externally marked, meaning by agency having no link with training partners. 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 to CSDCI.
- The assessment strategy, weightage and duration of assessment for **Supervisor Structure (Technical)** is summarized below

Assessment Type	Formative or Summative	Strategies	Weightage	Duration (hours)
Knowledge	Summative	MCQ/Viva	30	1.5
skill	Summative	Structured Practical Task	70	5.5

6. Assessment Quality Assurance framework:

- CSDCI has developed assessment criteria framework for each Qualification pack as per National Occupational Standards. The criteria framework includes weightages/marks for each criterion under knowledge and skill. The criteria ensure quality assurance as it ensures valid, consistent and fair assessments at all locations. Issued to the affiliated Assessment body. The

Assessment body develop questions based on CSDCI issued assessment criteria.

- Evidences in the form of answer sheets in case of knowledge assessments are collected. For skill assessments videos and photographs are prepared as evidence. These are submitted by the assessor to the assessment agency. CSDCI does random checks of the same with the participant/ trainee's ID and ascertains authenticity and validity of assessments.
- The training partner will intimate the time of arrival of the assessor and time of leaving the venue. Random spot checks/audit is conducted by CSDCI to monitor assessment.

7. Methods of Validation:

- Unless the trainee is registered, the person cannot undergo assessment. To further ensure that the person registered is the person appearing for assessment, ID verification is carried out. Aadhar card number is part of registering the candidate for training. This forms the basis of further verification during the assessment.
- Assessor conducts the assessment through theory and practical questions developed in accordance with the assessment criteria and guidelines issued by CSDCI. This too is verified by random audits carried out by CSDCI.
- Evidences for assessments are to be collected and submitted to CSDCI for verification as per demand.
- Assessment agency is responsible to put details in SIP. CSDCI will also validate the data and result received from the assessment agency.

8. Method of assessment documentation and access:

- The assessment agency will upload the result of assessment in the portal. The data will not be accessible for change by the assessment agency after the upload. The assessment data will be validated by CSDCI assessment team. After upload, only CSDCI can access this data.
- CSDCI approves the results within five days after which results are uploaded on SIDH by Assessment Agency.

9. 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.

Annexure: Acronym and Glossary

Acronym

Acronym	Description
MSDE	Ministry of Skill Development and Entrepreneurship
NCVET	National Council for Vocational Education and Training
NSDC	National Skill Development Corporation
SIDH	Skill India Digital Hub
CSDCI	Constriction Skill Development Council of India
AB	Awarding Body
SSC	Sector Skill Council
PMKVY	Pradhan Mantri Kaushal Vikas Yojana
DDU-GKY	Deen Dayal Upadhyaya Grameen Kaushalya Yojana
SANKALP	Skill Acquisition and Knowledge Awareness for Livelihood Promotion
STRIVE	Skills Strengthening for Industrial Value Enhancement
JSS	Jan Shikshan Sansthan
STT	Short Term Training
RPL	Recognition of Prior Learning
NAPS	National Apprenticeship Promotion Scheme
AA	Assessment Agency
TP	Training Provider / Training Partner
TC	Training Centre
ITI	Industrial Training Institute
NSQC	National Skill Qualification Committee
NSQF	National Skills Qualification Framework
Q-File	Qualification File
QP	Qualification Pack
MC	Model Curriculum
NOS	National Occupational Standards
PC	Performance Criteria
KU	Knowledge and Understanding
GS	Generic Skills

MCQ	Multiple Choice Question
EHS	Environment Health and Safety
PPE	Personal Protective Equipment
QA/QC	Quality Assurance / Quality Control
BM	Brick Masonry
CM	Cement Masonry
SM	Stone Masonry
PM	Plaster Masonry
AAC	Autoclaved Aerated Concrete
CCM	Cement Concrete Masonry
MFM	Mortar-Free Masonry
RRM	Random Rubble Masonry
DRM	Dry Rubble Masonry
FBR	Fly Ash Brickwork
SCM	Structural Clay Masonry
CSP	Concrete Solid Block Masonry
CMU	Concrete Masonry Unit
RM	Reinforced Masonry
TMC	Traditional Masonry Construction
FMB	Flemish Bond Masonry
SBM	Stretcher Bond Masonry
HCM	Header Course Masonry
RCM	Rubble Concrete Masonry
LRM	Load-Bearing Rubble Masonry
FRBM	First-Class Brick Masonry
FMB	Flemish Bond Masonry
SBM	Stretcher Bond Masonry
HCM	Header Course Masonry
RCM	Rubble Concrete Masonry
LRM	Load-Bearing Rubble Masonry
FRBM	First-Class Brick Masonry
PCC	Plain Cement Concrete (used for masonry foundations)

RCC	Reinforced Cement Concrete
FMU	Facing Masonry Unit
CLB	Clay Lintel Block
AACB	Autoclaved Aerated Concrete Block
CSB	Concrete Solid Block
RB	Rubble Block
CBB	Clay Burnt Brick
PCC	Plain Cement Concrete (used for masonry foundations)
RCC	Reinforced Cement Concrete
FMU	Facing Masonry Unit
CLB	Clay Lintel Block
AACB	Autoclaved Aerated Concrete Block
CSB	Concrete Solid Block
RB	Rubble Block
CBB	Clay Burnt Brick
BSM	Brick and Stone Masonry
PBM	Precast Block Masonry
DM	Dry Masonry
MSM	Mortar-Set Masonry
BMM	Brick Mortar Masonry
SMM	Structural Masonry Method
NHBC	National House Building Council (Masonry Standards)

Glossary

Term	Description
National Occupational Standards (NOS)	NOS defines the measurable performance outcomes required from an individual engaged in a particular task. They list down what an individual performing that task should know and also do.
Qualification	A formal outcome of an assessment and validation process which is obtained when a competent body determines that an individual has achieved learning outcomes to given standards
Qualification File	A Qualification File is a template designed to capture necessary information of a Qualification from the perspective of NSQF compliance. The Qualification File will be normally submitted by the awarding body for the qualification.
Sector	A grouping of professional activities on the basis of their main economic function, product, service or technology.
Long Term Training	Long-term skilling means any vocational training program undertaken for a year and above. https://ncvet.gov.in/sites/default/files/NCVET.pdf

Annexure: Career Progression