# QUALIFICATION FILE

**Rural Mason**

**☒ 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: 3.5**



**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** | **Rural Mason** | |
| **2.** | **Sector/s** | **Construction** | |
| **3.** | **Type of Qualification:**<br>☐ **New** ☒ **Revised**<br>☒ **Has Electives/Options** ☐ **OEM** | **NQR Code & version of existing/previous qualification:** (QG-3.5-CO-03391-2024-V1.1-CSDCI, v 3.0*)* | **Qualification Name of existing/previous version:** Rural Mason |
| **4.** | **a. OEM Name**<br>**b. Qualification Name**<br>(*Wherever applicable)* | NA | |
| **5.** | **National Qualification Register (NQR) Code &Version**<br>(*Will be issued after NSQC approval)* | QG-3.5-CO-03962-2025-V2-CSDCI & v 4.0 | **6. NCrF/NSQF Level:** *3.5* |
| **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 Rural Mason performs routine rural construction works with either bricks/blocks or bamboo and performs work such as earth work for foundation, layout marking and construction of foundations, walls, installation of sanitary fittings and fixtures in rural toilets, IPS flooring, reinforcement and shuttering work, manual concreting work, fixing of door and window frames and shutters, treatment of bamboo, construction of simple buildings using bamboo, seismic and wind protection measures, construction using CSEB and random rubble masonry work. | |

**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 applicable) |
|---|---|---|
| 1. | 11th grade pass | |
| 2. | 10th grade pass | 1-year relevant experience |
| 3. | 8th grade pass | 3-year relevant experience |
| 4. | Previous relevant Qualification of NSQF Level 3 (Assistant Mason) | 1.5-year relevant experience |

**b. Min. Job Entry Age:** 18 years

**10. Credits Assigned to this Qualification, Subject to Assessment** *(as per National Credit Framework (NCrF))*: 14

**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)*

**Minimum Duration: -**

☒ **Offline** ☐**Online** ☐**Blended**

| Training Delivery Modes | Theory (Hours) | Practical (Hours) | OJT Mandatory (Hours) | OJT Recommended (Hours) | Total (Hours) |
|---|---|---|---|---|---|
| **Classroom (offline)** | 150 | - | 270 | - | 420 |
| **Online** | | | | | |

*(Refer Blended Learning Annexure for details)*

<table>
<tr><td></td><td></td><td>Maximum Duration: -<br>☒ Offline ☐Online ☐Blended
<table>
<tr><th>Training Delivery Modes</th><th>Theory (Hours)</th><th>Practical (Hours)</th><th>OJT Mandatory (Hours)</th><th>OJT Recommended (Hours)</th><th>Total (Hours)</th></tr>
<tr><td>Classroom (offline)</td><td>270</td><td>-</td><td>510</td><td>-</td><td>780</td></tr>
<tr><td>Online</td><td></td><td></td><td></td><td></td><td></td></tr>
</table>
(Refer Blended Learning Annexure for details)</td></tr>
<tr><td>14.</td><td>Aligned to NCO/ISCO Code/s (if no code is available mention the same)</td><td>NCO-2015/7112.0200<br>NCO-2015/7114.9900<br>NCO-2015/7126.0101</td></tr>
<tr><td>15.</td><td>Progression path after attaining the qualification (Please show Professional and Academic progression)</td><td>Brick Mason</td></tr>
<tr><td>16.</td><td>Other Indian languages in which the Qualification & Model Curriculum are being submitted</td><td>Hindi</td></tr>
<tr><td>17.</td><td>Is similar Qualification(s) available on NQR-if yes, justification for this qualification</td><td>☐ Yes ☒ No URLs of similar Qualifications:</td></tr>
<tr><td>18.</td><td>Is the Job Role Amenable to Persons with Disability</td><td>☐ Yes ☒ No<br>If “Yes”, specify applicable type of Disability:</td></tr>
<tr><td>19.</td><td>How Participation of Women will be Encouraged</td><td>To encourage women to participate in Masonry - Rural 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 - Rural 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 - Rural job roles, through policies and practices that support work-life balance, equal pay and promotion opportunities, and a safe and respectful workplace.</td></tr>
</table>

| | | | |
|---|---|---|---|
| **20.** | **Are Greening/ Environment Sustainability Aspects Covered** *(Specify the NOS/Module which covers it)* | ☒ **Yes** ☐ **No** CON/N9001 | |
| **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<br>Email: abhisek@csdcindia.org<br>Contact No.: 0124-4513915-18 Ext-23<br>Website: www.csdcindia.org | |
| **23.** | **Final Approval Date by NSQC: 08-05-2025** | **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. | Mark layout for foundation, walls, soak pit/septic tank and monitor earthwork activities for rural construction | CON/N3601 & V 4.0 | Core | 3.5 | 3 | 30 | - | 60 | - | 90 | 30 | 70 | - | - | 100 | 15 |
| 2. | Install sanitary fitting and fixtures in rural toilets | CON/N3608 & V 4.0 | Core | 3.5 | 3 | 25 | - | 65 | - | 90 | 30 | 70 | - | - | 100 | 15 |
| 3. | Work according to personal health, safety and environment protocols at construction site | CON/N9001 & V 3.0 | Core | 4 | 1 | 05 | - | 25 | | 30 | 30 | 70 | - | - | 100 | 10 |

| 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. | Employability Skills (30 Hours) | DGT/VSQ/N0101 & V 1.0 | Non-Core | 2.0 | 1 | 30 | - | - | - | 30 | 20 | 30 | - | - | 50 | 10 |
| **Duration (in Hours) / Total Marks** | | | | | **8** | **90** | **-** | **150** | **-** | **240** | **110** | **240** | **-** | **-** | **350** | **50** |

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*

Elective 1: General

| 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. | Build brick / block masonry structures for rural construction | CON/N3602 & V 4.0 | Core | 3.5 | 1 | 10 | - | 20 | - | 30 | 30 | 70 | - | - | 100 | 10 |
| 2. | Carry out IPS flooring in rural construction | CON/N3604 & V 4.0 | Core | 3.5 | 1 | 10 | - | 20 | - | 30 | 30 | 70 | - | - | 100 | 10 |

| 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)* |
| 3. | Carry out reinforcement steel works for R.C.C structures in rural construction | CON/N3605 & V 4.0 | Core | 3.5 | 2 | 20 | - | 40 | - | 60 | 30 | 70 | - | - | 100 | 10 |
| 4. | Carry out shuttering works in rural construction | CON/N3606 & V 4.0 | Core | 3.5 | 1 | 10 | - | 20 | - | 30 | 30 | 70 | - | - | 100 | 10 |
| 5. | Carry out manual concreting in rural construction | CON/N3607 & V 4.0 | Core | 3.5 | 1 | 10 | - | 20 | - | 30 | 30 | 70 | - | - | 100 | 10 |
| **Duration (in Hours) / Total Marks** | | | | | **6** | **60** | **-** | **120** | **-** | **180** | **150** | **350** | | **-** | **500** | **50** |

## Elective 2: Bamboo Structure

| 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. | Select, harvest and prepare the bamboo for the construction works | CON/N3621 & V 3.0 | Core | 3.5 | 1 | 10 | - | 20 | - | 30 | 30 | 70 | - | - | 100 | 10 |
| 2. | Select, stack and perform visual quality checks on bamboo used for construction purpose | CON/N3622 & V 3.0 | Core | 3.5 | 1 | 10 | - | 20 | - | 30 | 30 | 70 | - | - | 100 | 10 |
| 3. | Cut, shape, drill and join treated bamboo for making of mat, posts, joints, ties, beams and bracing used for building construction | CON/N3623 & V 3.0 | Core | 3.5 | 2 | 20 | - | 40 | - | 60 | 30 | 70 | - | - | 100 | 10 |
| 4. | Construct simple rural buildings with treated bamboo | CON/N3624 & V 3.0 | Core | 3.5 | 1 | 10 | - | 20 | - | 30 | 30 | 70 | - | - | 100 | 10 |
| 5. | Follow seismic and wind safety protection measures for bamboo buildings | CON/N3625 & V 3.0 | Core | 3.5 | 1 | 10 | - | 20 | - | 30 | 30 | 70 | - | - | 100 | 10 |
| **Duration (in Hours) / Total Marks** | | | | | **6** | **60** | **-** | **120** | **-** | **180** | **150** | **350** | **-** | **-** | **500** | **50** |

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*

## Option 1: Compressed Stabilized Earth Block (CSEB)

| 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. | Construct buildings using Compressed Stabilized Earth Block (CSEB) | CON/N3626 & V 3.0 | Core | 3.5 | 3 | 30 | - | 60 | - | 90 | 30 | 70 | - | - | 100 | 10 |
| **Duration (in Hours) / Total Marks** | | | | | **3** | **30** | **-** | **60** | **-** | **90** | **30** | **70** | **-** | **-** | **100** | **10** |

## Option 2: Random Rubble Masonry (RRB)

| 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. | Build structures using random rubble masonry for rural construction | CON/N3603 & V 4.0 | Core | 3.5 | 3 | 30 | - | 60 | - | 90 | 30 | 70 | - | - | 100 | 10 |
| **Duration (in Hours) / Total Marks** | | | | | **3** | **30** | **-** | **60** | **-** | **90** | **30** | **70** | **-** | **-** | **100** | **10** |

# 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 rowspan="11">1.</td><td rowspan="11">Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)</td><td colspan="5">
<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>2</td><td>Site Execution (Civil Work)</td><td>1</td><td>Masonry, Bar bending and steel Fixing, Shuttering Work etc.</td></tr>
<tr><td colspan="6">OR</td></tr>
<tr><td>Diploma</td><td>Civil Engineering</td><td>3</td><td>Site Execution (Civil Work)</td><td>1</td><td>Masonry, Bar bending and steel Fixing, Shuttering Work etc.</td></tr>
<tr><td colspan="6">OR</td></tr>
<tr><td>ITI</td><td>Relevant Trade</td><td>6</td><td>Site Execution (Civil Work)</td><td>1</td><td>Masonry, Bar bending and steel Fixing, Shuttering Work etc.</td></tr>
<tr><td colspan="6">OR</td></tr>
<tr><td>Graduation</td><td>in any Stream</td><td>6</td><td>Site Execution (Civil Work)</td><td>1</td><td>Masonry, Bar bending and steel Fixing, Shuttering Work etc.</td></tr>
<tr><td colspan="6">OR</td></tr>
<tr><td>Ex-Army Graduate</td><td>in any Stream</td><td>6</td><td>Site Execution (Civil Work)</td><td>1</td><td>Masonry, Bar bending and steel Fixing, Shuttering Work etc.</td></tr>
</table>
</td></tr>
</table>

<table>
<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, Bar bending and steel Fixing, Shuttering Work etc.</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, Bar bending and steel Fixing, Shuttering Work etc.</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, Bar bending and steel Fixing, Shuttering Work etc.</td></tr>
<tr><td colspan="6">OR</td></tr>
<tr><td>Existing TOT certified Trainer in Skill Qualification</td><td>Rural Mason</td><td>2</td><td>Site Execution (Civil Work)</td><td>5</td><td>Masonry, Bar bending and steel Fixing, Shuttering Work etc.</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>
</table>

| | | |
|---|---|---|
| 4. | **In Case of Revised Qualification, Details of Any Upskilling Required for Trainer** | Not Applicable |

## 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 | 2 | Site Execution (Civil Work) |
| OR | | | |
| Diploma | Civil Engineering | 5 | Site Execution (Civil Work) |
| OR | | | |
| ITI | Relevant Trade | 7 | 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 | - |

<table>
<tr><td>3.</td><td>Lead Assessor's/Master Assessor's Qualification and experience in 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></tr>
<tr><th>Years</th><th>Specialization</th></tr>
<tr><td>B.E. / B.Tech</td><td>Civil Engineering</td><td>10</td><td>Site Execution (Civil Work)</td></tr>
<tr><td colspan="4">OR</td></tr>
<tr><td>Diploma</td><td>Civil Engineering</td><td>13</td><td>Site Execution (Civil Work)</td></tr>
</table>
</td></tr>
<tr><td>4.</td><td>Assessment Mode (Specify the assessment mode)</td><td>Offline</td></tr>
<tr><td>5.</td><td>Tools and Equipment Required for Assessment</td><td>☒ Same as for training ☐ Yes ☐ No (details to be provided in Annexure-if it is different for Assessment)</td></tr>
</table>

## 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:** 1,30,000 and 1,30,000 |
| 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 marking layout for foundation, walls, soak pit/septic tank and monitor earthwork activities for rural construction<br>• Process of installing sanitary fitting and fixtures in rural toilets<br>• Process of building brick / block masonry structures for rural construction<br>• Process of carrying out IPS flooring in rural construction<br>• Process of carrying out reinforcement steel works for R.C.C structures in rural construction<br>• Process of carrying out shuttering works in rural construction | As detailed, the entire process followed by an Rural Mason is to mark layout for foundation, walls, soak pit/septic tank and monitor earthwork activities for rural construction; install sanitary fitting and fixtures in rural toilets; build brick / block masonry structures for rural construction; carry out IPS flooring in rural construction; carry out reinforcement steel works for R.C.C structures in rural construction; carry out shuttering works in rural construction; carry out manual concreting in rural construction; select, harvest and prepare the bamboo for the construction works; Select, stack and perform visual quality checks on bamboo used for construction purpose; cut, shape, drill and join treated bamboo for making of mat, posts, joints, ties, beams and bracing used for building construction; construct simple rural buildings with | 3.5 |

| | | | |
|---|---|---|---|
| | • Process of carrying out manual concreting in rural construction<br>• Process of selecting, harvesting and preparing the bamboo for the construction works<br>• Process of selecting, stacking and performing visual quality checks on bamboo used for construction purpose<br>• Process of cutting, shaping, drilling and joining treated bamboo for making of mat, posts, joints, ties, beams and bracing used for building construction<br>• Process of constructing simple rural buildings with treated bamboo<br>• Process of following seismic and wind safety protection measures for bamboo buildings<br>• Process of constructing buildings using Compressed Stabilized Earth Block (CSEB)<br>• Process of build structures using random rubble masonry for rural construction | treated bamboo; follow seismic and wind safety protection measures for bamboo buildings; construct buildings using Compressed Stabilized Earth Block (CSEB); building structures using random rubble masonry for rural construction.<br><br>As the work is routine and is repeated multiple times, the work becomes predictable.<br><br>As the Rural Masons 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. | |
| **Professional and Technical Skills/ Expertise/ Professional Knowledge** | • Know the standard practices for layout and earthwork<br>• Know how to use basic tools in the masonry trade such as: Spirit level, water level, plumb bob, line thread<br>• Know the layout sketches for foundation and soak pit/septic tank<br>• Know the types of foundation, importance and purpose of foundation, knowledge about depth and plinth height | The knowledge required for an Rural Mason is factual, as it is specific and limited to the knowledge of The standard practices for layout and earthwork, including the use of basic tools in the masonry trade such as a spirit level, water level, plumb bob, and line thread; the layout sketches for foundation and soak pit/septic tank; the types of foundation, their importance, purpose, depth, and plinth height; the importance and purpose of soak pit/septic tank, their suitable location and depth; the different types of materials (CI/GI/PVC | 3.5 |

| | | | |
|---|---|---|---|
| | • Understand the importance and purpose of soak pit / septic tank, knowledge about their suitable location and depth<br>• Know the different types of materials (CI/GI/PVC pipes, etc.), basic sanitary fittings (taps, valves, clamps, elbows, etc.) and fixtures (toilet pans, traps, etc.)<br>• Know the techniques related to cutting, bending and joining of fittings and fixtures.<br>• Know basic plumbing terminology and standard practices for plumbing work<br>• Know standard practices for masonry work<br>• Know cement grade and mix proportion and its importance<br>• Know various techniques / procedures for cutting/chiseling/dressing different types of bricks to closure<br>• Know laying and fixing of brick, block for wall, foundation, column, soak pit/ septic tank<br>• Know the standard practices for IPS flooring works<br>• Know the standard practices for reinforcement work<br>• Know how to read basic drawing/sketches for bar bending and fixing works<br>• Know the sequence for tying of reinforcement for in-situ, pre fabrication works | pipes, etc.), basic sanitary fittings (taps, valves, clamps, elbows, etc.), and fixtures (toilet pans, traps, etc.); the techniques related to cutting, bending, and joining of fittings and fixtures; basic plumbing terminology and standard practices for plumbing work; standard practices for masonry work; cement grade and mix proportion and its importance; various techniques/procedures for cutting/chiseling/dressing different types of bricks to closure; laying and fixing of brick, block for wall, foundation, column, soak pit/septic tank; standard practices for IPS flooring works; standard practices for reinforcement work; how to read basic drawing/sketches for bar bending and fixing works; the sequence for tying of reinforcement for in-situ, pre-fabrication works; the standard procedure for shuttering works; different types of shuttering material such as timber, plywood, wooden batten, GI sheets, and other material; how to erect and dismantle staging; the various species of bamboo used for construction works; the various methods of bamboo treatment; the different steps to construction of a bamboo joint; the process of erection of superstructure; the procedure for laying CSEB in English and stretcher bond; the process of pointing and curing in CSEB masonry; the standard practices for random rubble masonry work; the various techniques/procedures to work with undressed and hammer dressed stones used for un-course and course random rubble masonry. | |

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| | • Know the standard procedure for shuttering works<br>• Know different type of shuttering material such as timber, plywood, wooden batten, GI sheets and other material<br>• Know how to erect and dismantle staging<br>• Know the various species of bamboo used for construction works<br>• Know the various methods of bamboo treatment<br>• Understand the the different steps to construction of a bamboo joint<br>• Know the process of erection of superstructure<br>• Know the procedure for laying CSEB in English and stretcher bond<br>• Know the process of pointing and curing in CSEB masonry<br>• Know the standard practices for random rubble masonry work<br>• Know the various techniques / procedures to work with undressed and hammer dressed stones used for un-course and course random rubble masonry | Therefore, their knowledge is applicable to their field of work only. | |
| **Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill** | • read and interpret the sketches for foundation works, soak pits/septic tank<br>• select required tools for the task and ensure they are in working condition | As indicated the skill set is required to read and interpret the sketches for foundation works, soak pits/septic tank; select required tools for the task and ensure they are in working condition; check and ensure that excavation is carried out to the desired | 3.5 |

| | | | |
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| | • check and ensure that excavation is carried out to the desired depth<br>• select sanitary fixtures and carry out checks to ensure workability<br>• install pipe assemblies, fittings, and fixtures<br>• check the overall system for proper functioning prior to commissioning<br>• estimate the quantity of raw material required such as brick/block, cement and fine aggregate required<br>• ensure proper curing of constructed masonry structure<br>• check that concrete is mixed in appropriate proportion<br>• select re-bars for placement as per the drawing/sketches<br>• check quality of reinforcement work with reference to spacing, placement, straightness of bar, rigidity of ties etc.<br>• erect scaffold sequentially as per requirement<br>• check for stability, rigidity and necessary support to scaffold<br>• dismantle scaffold sequentially and stack material properly<br>• check for misalignment in formwork/ reinforcement<br>• select the appropriate bamboo for the construction work based on physical description | depth; select sanitary fixtures and carry out checks to ensure workability; install pipe assemblies, fittings, and fixtures; check the overall system for proper functioning prior to commissioning; estimate the quantity of raw material required such as brick/block, cement and fine aggregate required; ensure proper curing of constructed masonry structure; check that concrete is mixed in appropriate proportion; select re-bars for placement as per the drawing/sketches; check quality of reinforcement work with reference to spacing, placement, straightness of bar, rigidity of ties, etc.; erect scaffold sequentially as per requirement; check for stability, rigidity and necessary support to scaffold; dismantle scaffold sequentially and stack material properly; check for misalignment in formwork/reinforcement; select the appropriate bamboo for the construction work based on physical description; check and confirm straightness of bamboo members; carry out erection of simple bamboo mat walls; select and prepare/procure appropriate tools for testing of soil; select appropriate soil and sand for preparation of stabilized sand-mud mortar; estimate the quantity of CSEB and mortar material required for English and stretcher bond- full blocks, half and 3/4th blocks; check for workability and proportion of cement/lime/ mud mortar; check horizontal and vertical alignment using appropriate tools. | |

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| | • check and confirm straightness of bamboo members<br>• carry out erection of simple bamboo mat walls<br>• select and prepare/procure appropriate tools for testing of soil<br>• select appropriate soil and sand for preparation of stabilized sand-mud mortar<br>• estimate the quantity of CSEB and mortar material required for English and stretcher bond- full blocks, half and 3/4th blocks<br>• check for workability and proportion of cement/lime/ mud mortar<br>• check horizontal and vertical alignment using appropriate tools | | |
| **Broad Learning Outcomes/Core Skill** | • Carry out marking layout for foundation, walls, soak pit/septic tank<br>• Monitor earthwork activities for rural construction<br>• Carry out installation sanitary fittings and fixtures in rural toilets<br>• Build various masonry structures using brick / block and fix ready- to-install doors, windows and ventilators<br>• Carry out reinforcement steel works for footing, column, beam and slab in rural construction | The job holder is expected to mark layout for foundation, walls, soak pit/septic tank; monitoring earthwork activities for rural construction; installing sanitary fittings and fixtures in rural toilets; building various masonry structures using brick/block and fixing ready-to-install doors, windows, and ventilators; carrying out reinforcement steel works for footing, column, beam, and slab in rural construction; carrying out shuttering works for footing, column, beam, and slab in rural construction; manually concreting in rural construction; selecting, harvesting, and treating bamboo used for construction works; selecting, stacking, and performing visual quality checks of bamboo for use in construction; cutting, shaping, drilling, and jointing treated bamboo members for making mats, posts, joints, ties, beams, and bracing | 3.5 |

| | | | |
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| | • Carry out shuttering works for footing, column, beam and slab in rural construction<br>• Carry out manual concreting in rural construction<br>• Carry out selection, harvesting and treatment of bamboo used for construction works<br>• Carry out selection, stacking and performing visual quality checks of bamboo for use in construction.<br>• Carry out cutting, shaping drilling and jointing of treated bamboo members for making of mat, posts, joints, ties, beams and bracing used for building construction<br>• Carry out construction of simple rural buildings with treated bamboo<br>• Following the seismic and wind safety protection measures for bamboo buildings<br>• Carry out construction of building using Compressed Stabilized Earth Block (CSEB)<br>• Carry out building structures using random rubble in rural construction | used for building construction; constructing simple rural buildings with treated bamboo; following seismic and wind safety protection measures for bamboo buildings; constructing buildings using Compressed Stabilized Earth Blocks (CSEB); building structures using random rubble in rural construction. | |
| **Responsibility** | The individual in this job role will be responsible for the below-mentioned activities:<br>• Carry out preparatory work for layout marking | A Rural Mason performs routine rural construction works with either bricks/blocks or bamboo and performs work such as earth work for foundation, layout marking and construction of foundations, walls, installation of sanitary fittings and fixtures in rural toilets, IPS flooring, reinforcement and shuttering work, manual concreting work, fixing of door and | 3.5 |

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| | • Mark the layout for walls & foundations/ footings, soak pit/ septic tank. Monitor excavation & preparation of base layer<br>• Monitor backfilling activities<br>• Carry out preparatory activities for installation of sanitary fittings and fixtures for rural toilets<br>• Carry out installation of sanitary fitting and fixtures for rural toilets<br>• Check gradient and perform test for leakage before commissioning of rural toilet<br>• Carry out preparatory activities for brick/block masonry work<br>• Check material used for brickwork / block work<br>• Lay brick / block for construction of load bearing / non-load bearing wall, columns, footings and soak pits / septic tanks<br>• Carry out pointing in brick masonry<br>• Fix ready-to-install doors, windows and ventilators.<br>• Carry out preparatory work prior to IPS flooring<br>• Carry out IPS flooring<br>• Read and understand sketches relevant to R.C.C footing, column, beam and slab<br>• Use hand tools for cutting and bending of reinforcement steel bars<br>• Fabricate, place and fix reinforcement steel for R.C.C footing, column, beam and slab<br>• Use hand tools for making wooden shutter board | window frames and shutters, treatment of bamboo, construction of simple buildings using bamboo, seismic and wind protection measures, construction using CSEB and random rubble masonry work. | |

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| | • Carry out shuttering works in rural construction for R.C.C footing, column, beam and slab<br>• Carry out scaffolding works using bamboo/ballies or pipes and coupler for supporting rural construction activities<br>• Carry out preparatory work before pouring of manual concrete<br>• Carry out pouring and compaction of concrete<br>• Finish and cure concrete<br>• Carry out selection and harvesting of bamboo<br>• Perform treatment of bamboo<br>• Carry out selection, stacking and performing visual quality checks of treated bamboo for use in construction<br>• Carry out cutting, shaping drilling and jointing of treated bamboo members for making of mat, posts, joints, ties, beams and bracing used for building construction<br>• Carry out preparatory works for construction of simple rural building.<br>• Carry out erection of superstructure with bamboo components.<br>• Carry out erection of roofing truss, purlins, ties, bracings etc.<br>• Fix roof cladding , CGI or bamboo sheets<br>• Carry out the seismic and wind safety protection measures in bamboo buildings<br>• Carry out preparatory activities for masonry work | | |

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| | • Carry out visual checks on CSEB and test soil types to prepare stabilized sand-mud mortar for carrying out masonry, pointing and plastering work<br>• Lay CSEB for construction of load bearing / non-load bearing wall, columns.<br>• Carry out fixing of door and window frames in CSEB masonry wall of different block sizes<br>• Carry out pointing in CSEB masonry of different block sizes<br>• Carry out preparatory work for rubble masonry<br>• Lay out coursed and un-coursed Random Rubble Masonry with undressed or hammer dressed stones<br>• Carry out flush /raised pointing in stone masonry | | |

# Annexure: Tools and Equipment (Lab Set-Up)

***List of Tools and Equipment***

**Batch Size:** 30 Candidates

| S. No. | Tool / Equipment Name | Specification | Quantity For Specified Batch Size |
|---|---|---|---|
| **S. No.** | **Tool / Equipment Name** | **Specification** | **Quantity For Specified Batch Size** |
| 1 | Measuring Tape-3m | Number | 30 |
| 2 | Measuring Tape-5m | Number | 30 |
| 3 | Measuring Tape-50m | Number | 6 |
| 4 | Steel or Wooden Scale (1ft) | Number | 30 |
| 5 | Steel or Wooden Scale (3ft) | Number | 30 |
| 6 | Steel Trowels | Number | 30 |
| 7 | Shovels | Number | 10 |
| 8 | Spade (Phawda) | Number | 15 |
| 9 | Chalk/Powder for Marking | Kgs | 6 |
| 10 | Wheelbarrows | Number | 6 |
| 11 | Plumb Bob | Number | 30 |
| 12 | Line String (Line Dori) | Number | 30 |
| 13 | Try Square | Number | 30 |
| 14 | Spirit Level (1ft) | Number | 15 |
| 15 | Spirit Level (3ft) | Number | 15 |

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|---|---|---|---|
| 16 | Rammers (Hand Held) | Number | 3 |
| 17 | Floats Wooden/Metal | Number | 30 |
| 18 | Brushes | Number | 30 |
| 19 | Screed Boards/Straightedge | Number | 15 |
| 20 | Hand Held Concrete Mixer | Number | 1 |
| 21 | Mortar Boards and Stands | Number | 6 |
| 22 | Mason's Square | Number | 10 |
| 23 | Volume Box | Number | 3 |
| 24 | Hammer | Number | 15 |
| 25 | Brick Chisel | Number | 15 |
| 26 | Stone Chisel | Number | 6 |
| 27 | Bolster Chisel | Number | 6 |
| 28 | Mortar Pan (Ghamela) | Number | 6 |
| 29 | Pointer Trowel | Number | 6 |
| 30 | Tuck Pointing Trowel | Number | 6 |
| 31 | Line and Pins | Number | 60 |
| 32 | Jointers | Number | 2 |
| 33 | Lifting , Appliances (Wheel And Rope, Shackles, Sling, Belts) | Number | 2 |

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| 34 | Mixing Plat Form (3'x5') | Number | 2 |
| 35 | Tamping Rod | Number | 6 |
| 36 | Vibrators | Number | 1 |
| 37 | Hand Saw | Number | 10 |
| 38 | Hack Saw | Number | 10 |
| 39 | Rail Piece | Number | 5 |
| 40 | Pointed Chisel | Number | 10 |
| 41 | Sledge Hammer | Number | 5 |
| 42 | Bending Lever | Number | 5 |
| 43 | Pin Plate | Number | 3 |
| 44 | Working Bench | Number | 6 |
| 45 | Binding Hook | Number | 6 |
| 46 | M.S, TOR, TMT Steel | Number | 6 |
| 47 | Binding Wires | Kgs | 5 |
| 48 | Steel Cutting Blade | Number | 5 |
| 49 | Mechanical Coupler | Number | 10 |
| 50 | Cover Blocks | Number | 60 |
| 51 | Wooden Planks | Number | 20 |
| 52 | Safety Helmets | Number | 30 |

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| 53 | Safety Goggles | Number | 30 |
| 54 | Safety Shoes | Number | 30 |
| 55 | Face Shield | Number | 15 |
| 56 | Jack Hammer | Number | 1 |
| 57 | Nailing Hammer | Number | 6 |
| 58 | Hand Drill | Number | 6 |
| 59 | Water Level Tube | Number | 15 |
| 60 | Marking Chalk/Pencil | Number | 30 |
| 61 | Wrenches | Number | 10 |
| 62 | Plier | Number | 15 |
| 63 | Screwdriver | Number | 15 |
| 64 | Pipe Cutter | Number | 10 |
| 65 | Pipe Bender | Number | 10 |
| 66 | Threading Tool | Number | 10 |
| 67 | Metal File | Number | 10 |
| 68 | Caulking Tools | Number | 10 |
| 69 | Cutting, Threading and Joining Equipment | Set | 1 |
| 70 | Coarse aggregates | Cu.ft | 500 |
| 71 | Sand | Cu.ft | 500 |

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| 72 | Cement | Bags | 10 |
| 73 | Fire Extinguisher | Number | 2 |
| 74 | Dust mask / Nose Mask | Number | 30 |
| 75 | Bamboo Stick for construction work | Pieces | 60 |
| 76 | Bamboo Cutter Saw | Number | 30 |
| 77 | Safety Notice Board / Safety Message board | Number | 5 |
| 78 | Safety tags | Number | 5 |
| 79 | First aid box | Number | 2 |
| 80 | Sand Buckets | Number | 5 |
| 81 | Dust mask / Nose Mask | Number | 30 |
| 82 | Safety belt/Harness | Number | 30 |

***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 | 8240040261 | planning@kamac.in | |

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|---|---|---|---|---|---|---|---|
| | | | | Tower), Siliguri, West Bengal 734001 | | | |
| 6 | One Naga Construction Private Limited | Tunito Alex Zhimomi | CEO | DR.N. Theuno; Bayavu; Near N.B.S Office Area; Kohima; Kohima; Nagaland; 797001; India | 7005715093 | alexzim881@gmail.com | |
| 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 | |

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|---|---|---|---|---|---|---|---|
| 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 | |

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|---|---|---|---|---|---|---|---|
| 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 | |

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|---|---|---|---|---|---|---|---|
| 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 | |

## 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 | 35,000 | 35,000 | 7,000 | 7,000 | Subject to the requirement of the Industry | Subject to the requirement of the Industry |
| 2026-27 | 40,000 | 40,000 | 8,000 | 8,000 | Subject to the requirement of the Industry | Subject to the requirement of the Industry |
| 2027-28 | 55,000 | 55,000 | 11,000 | 11,000 | 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 |
| v2.0 | 2022-23 | 37347 | 2444 | 2294 | 2294 | NA | NA | NA | NA | NA | NA | NA | NA |
| v2.0 | 2023-24 | 72379 | 79134 | 72879 | 72879 | NA | NA | NA | NA | NA | NA | NA | NA |
| v2.0 | 2024-25 | 18012 | 26839 | 24866 | 24866 | 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. AICTE
2. DDUGKY
3. NULM
4. PMAY-G
5. PMKVY 3.0
6. Sankalp SP
7. Special Training Program - RPL
8. UKSDM
9. UPSDM

**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: Detailed Assessment Criteria

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

| NOS/Module Name | Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|---|---|---|---|---|---|
| **Mark layout for foundation, walls, soak pit/septic tank and monitor earthwork activities for rural construction** | *Carry out preparatory work for layout marking* | **5** | **15** | | |
| | PC1. read and interpret the sketches for foundation works, soak pits/septic tank | | | | |
| | PC2. select required tools for the task and ensure they are in working condition | | | | |
| | PC3. select appropriate Personal Protective Equipment (P.P.E.s) for the task | | | | |
| | PC4. ensure work place is clear for marking the layout | | | | |
| | PC5. set out the layouts as per sketches/drawings | | | | |
| | PC6. identify and transfer required levels using water level tube | | | | |
| | *Mark the layout for walls & foundations/* | **5** | **15** | | |

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| | *footings, soak pit/ septic tank* | | | | |
| | PC7. mark the center lines of the rooms by setting perpendiculars using 3-4-5 method and check right angle (90) at corners | | | | |
| | PC8. set out 90 corners using builders square or 3-4-5 method and check right angle | | | | |
| | PC9. Check the diagonals if they are equal | | | | |
| | PC10. extend the center lines and marks the center points about 2m away from the outer edge of excavation | | | | |
| | PC11. mark the width of excavation from the plan | | | | |
| | PC12. mark the center line of the septic tank by setting perpendiculars using 3-4-5method and check right angle (90)at corners as per applicability | | | | |
| | PC13. mark the periphery of soak pits /septic tanks for excavation by identifying the center point | | | | |
| | *Monitor excavation & preparation of base layer* | **10** | **20** | | |
| | PC14. check and ensure that excavation is carried out to the desired depth using | | | | |

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| | appropriate tools | | | | |
| | PC15. check and ensure desired slope of earth is maintained during digging activity | | | | |
| | PC16. provide necessary support to vertical side of excavated area to avoid soil collapse as per applicability | | | | |
| | PC17. ensure earth is disposed from the excavated pit by using suitable tools and equipment such as spade, wheel barrows, pans etc | | | | |
| | PC18. check for loose material, soil lumps, pebbles on achieving the desired earth level | | | | |
| | PC19. ensure surface dressing work is carried out by disposing loose material, gravels, plant roots, sludge, muck or debris as per requirement to the appropriate locations | | | | |
| | PC20. ensure compaction of base by ramming | | | | |
| | *Monitor backfilling activities* | **10** | **20** | | |
| | PC21. check and remove gravels, oversized aggregates, organic matter from soil prior to be use in backfilling as per site conditions | | | | |

| | | | | | |
|---|---|---|---|---|---|
| | PC22. ensure earth is placed and spread maintaining uniform layers within tolerance limit of thickness | | | | |
| | PC23. ensure water is sprinkled uniformly over the layer to be compacted as and when required as per site conditions | | | | |
| | PC24. check and ensure ramming over the soil layer as per site conditions | | | | |
| | PC25. Check and ensure re-filling and compaction of excavated trenches, pits surrounding the structures or at necessary location as per soil site conditions | | | | |
| **NOS Total** | | **30** | **70** | | |
| **NOS/Module Name** | **Assessment Criteria for Outcomes** | **Theory Marks** | **Practical Marks** | **Project Marks** | **Viva Marks** |
| **Install sanitary fitting and fixtures in rural toilets** | *Carry out preparatory activities for installation of sanitary fi ttings and fixtures for rural toilets* | **10** | **20** | | |
| | PC1. read and understand sketches of sanitary fittings and fixtures and their connection to soak pit/septic tank | | | | |
| | PC2. select sanitary fixtures and carry out checks to ensure workability as per requirement | | | | |

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| | PC3. check toilet enclosure, bathing space, soak pits/septic tank are built as per drawings/sketches and necessary gradients | | | | |
| | PC4. place and fix pre-cast concrete rings for soak pits as per applicability | | | | |
| | PC5. locate and mark the position of pipe installations, connections, passage holes, and fixtures in structures, using measuring instruments such as rulers and levels | | | | |
| | PC6. establish the sequence of pipe installations | | | | |
| | PC7. assemble pipe sections, tubing and fittings, using couplings, clamps, screws, bolts, caulking tools, or cutting, threading and joining equipment | | | | |
| | *Carry out installation of sanitary fitting and fixtures for rural toilets* | **10** | **25** | | |
| | PC8. cut openings in structures to accommodate pipes and pipe fittings, using hand tools | | | | |
| | PC9. install pipe assemblies, fittings, and fixtures such as toilet pan using hand tools | | | | |
| | PC10. maintaining necessary gradient for toilet floor | | | | |

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| | PC11. connect toilet with soak pit/septic tank and inspection chamber maintaining necessary gradient as per specification | | | | |
| | *Check gradient and perform test for leakage before commissioning of rural toilet* | 10 | 25 | | |
| | PC12. test the joints and fixtures for proper functioning | | | | |
| | PC13. check the overall system for proper functioning prior to commissioning by carrying out trial run | | | | |
| | PC14. clear the work area after completion of work | | | | |
| **NOS Total** | | **30** | **70** | | |
| **NOS/Module Name** | **Assessment Criteria for Outcomes** | **Theory Marks** | **Practical Marks** | **Project Marks** | **Viva Marks** |
| **Work according to personal health, safety and environment protocols at construction site** | *Follow safety norms as defined by the organization* | 5 | 15 | | |
| | PC1. identify and report any hazards, risks or breaches in site safety to the appropriate authority | | | | |
| | PC2. follow emergency and evacuation procedures in case of accidents, fires, natural calamities | | | | |

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| | PC3. follow recommended safe practices in handling construction materials, including chemical and hazardous material whenever applicable | | | | |
| | PC4. follow all the protocols and safety techniques conveyed during safety awareness programs like Tool Box Talks, safety demonstrations and mock drills conducted at the site | | | | |
| | PC5. select and operate different types of fire extinguishers corresponding to various types of fires as per EHS guideline | | | | |
| | PC6. identify near miss, unsafe condition and unsafe act | | | | |
| | *Adopt healthy & safe work practices* | | | | |
| | PC7. use appropriate Personal Protective Equipment (PPE) as per work requirements for : Head Protection, Ear protection, Fall Protection, Foot Protection, Face and Eye Protection, Hand and Body Protection , and Respiratory Protection (if required) | **15** | **35** | | |
| | PC8. handle all required tools, tackles, materials and equipment safely | | | | |

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| | PC9. follow safe disposal of waste, harmful and hazardous materials as per EHS guidelines | | | | |
| | PC10. check and install all safety equipment as per standard guidelines | | | | |
| | PC11. follow safety protocols and practices as laid down by site EHS department | | | | |
| | PC12. obtain "height pass" clearance for working at heights | | | | |
| | *Implement good housekeeping practices* | **5** | **15** | | |
| | PC13. collect, segregate and deposit construction waste into appropriate containers based on their toxicity or hazardous nature | | | | |
| | PC14. apply ergonomic principles wherever required | | | | |
| | *Follow infection control guidelines as per applicability* | **5** | **5** | | |
| | PC15. follow recommended personal hygiene, workplace hygiene and sanitization practices | | | | |
| | PC16. clean and disinfect all materials, tools and supplies before and after use | | | | |

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|---|---|---|---|---|---|
| | PC17. report immediately to concerned authorities regarding signs and symptoms of illness of self and others | | | | |
| **NOS Total** | | **30** | **70** | | |
| **NOS/Module Name** | **Assessment Criteria for Outcomes** | **Theory Marks** | **Practical Marks** | **Project Marks** | **Viva Marks** |
| **Employability Skills (30 Hours)** | *Introduction to Employability Skills* | | | | |
| | PC1. understand the significance of employability skills in meeting the job requirements | **1** | **1** | | |
| | *Constitutional values – Citizenship* | | | | |
| | PC2. identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices | **1** | **1** | | |
| | *Becoming a Professional in the 21st Century* | | | | |
| | 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. | **1** | **3** | | |

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| | *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** | | |

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| | 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 | | | | |

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| | PC21. identify and register apprenticeship opportunities as per requirement | | | | |
| **NOS Total** | | **20** | **30** | | |
| **NOS/Module Name** | **Assessment Criteria for Outcomes** | **Theory Marks** | **Practical Marks** | **Project Marks** | **Viva Marks** |
| **Build brick / block masonry structures for rural construction** | *Carry out preparatory activities for brick/block masonry work* | **5** | **10** | | |
| | PC1. read and interpret the basic working drawings / sketches before the commencement of brick / block work | | | | |
| | PC2. select appropriate Personal Protective Equipment (P.P.E.s) for the task | | | | |
| | PC3. set out the layouts as per sketches/drawings, select appropriate Personal Protective Equipment (P.P.E.s) for the task | | | | |
| | PC4. identify and transfer required levels using appropriate tools | | | | |
| | PC5. estimate the quantity of raw material required such as brick/block, cement and fine aggregate required | | | | |
| | *Check material used for brickwork/block work* | **5** | **10** | | |

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| | PC6. visual check for quality of bricks / blocks prior to use | | | | |
| | PC7. ensure fine aggregate is sieved as per requirement | | | | |
| | PC8. ensure proper stacking of bricks / blocks of required numbers as per requirement at the work place | | | | |
| | *Lay brick / block for construction of load bearing / non-load bearing wall, columns, footings and soak pits/ septic tanks* | **10** | **15** | | |
| | PC9. check and ensure the base surface is free of dust, dirt & debris prior to commencement of work | | | | |
| | PC10. ensure removal of all loose concrete laitance and roughening of the surface prior to laying of brick/block | | | | |
| | PC11. ensure soaking of brick/block and pre wetting of base surface prior to commencement of work | | | | |
| | PC12. select appropriate tools and equipment as per the tasks ensuring they are in working condition such as: different types of trowels (of the right blade size) masons hammer blocking chisel mashing hammer jointers | | | | |
| | PC13. break bricks to required shape | | | | |

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| | and size using appropriate tools following appropriate safety measures | | | | |
| | PC14. lay and fix bricks / blocks for columns, walls, soak pits /septic tanks | | | | |
| | PC15. check vertical and horizontal alignment using appropriate tools | | | | |
| | PC16. maintain line and level of each course of brickwork using wooden / aluminum straight edge sections | | | | |
| | PC17. set out 90 corners using builders square or 3-4-5 method and check right angle if required | | | | |
| | PC18. ensure proper curing of constructed masonry structure | | | | |
| | *Carry out pointing in brick masonry* | **5** | **20** | | |
| | PC19. perform raking of joints as specified prior to drying of bonding mortar | | | | |
| | PC20. ensure that joints are cleaned and surface is wet prior to pointing | | | | |
| | PC21. ensure lime/cement mortar for pointing is prepared as per specification | | | | |
| | PC22. fill joints with appropriate mortar to obtain specified type of pointing | | | | |
| | PC23. carry out flush/recessed pointing | | | | |

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| | using appropriate tools and technique | | | | |
| | PC24. ensure proper curing of pointing | | | | |
| | *Fix ready-toinstall doors, windows and ventilators* | **5** | **15** | | |
| | PC25. mark, set out location of frames of doors, windows and ventilators | | | | |
| | PC26. check and carry out proper alignment of the frame and hold in position with temporary support | | | | |
| | PC27. check the holdfast position and grout it between bricks / blocks of wall | | | | |
| | PC28. fill the gap between wall and door frame with non-shrink material/grout | | | | |
| | PC29. fix wooden/metal panels for doors, windows and ventilators | | | | |
| **NOS Total** | | **30** | **70** | | |
| **NOS/Module Name** | **Assessment Criteria for Outcomes** | **Theory Marks** | **Practical Marks** | **Project Marks** | **Viva Marks** |
| **Carry out IPS flooring in rural construction** | *Carry out preparatory work prior to IPS flooring* | **15** | **35** | | |
| | PC1. inspect the work area prior to concreting, ensure leveling in case of any undulations observed on the surface | | | | |

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| | prior to concreting | | | | |
| | PC2. select appropriate Personal Protective Equipment (P.P.E.s) for the task | | | | |
| | PC3. ensure surface is prepared appropriately and address any deviation in slope and alignment in PCC | | | | |
| | PC4. check the grade of cement prior to use in case of manual mixing | | | | |
| | PC5. ensure fine aggregate is sieved as per grade requirement | | | | |
| | PC6. mark reference level on the wall &transfer this marking to all floor locations using appropriates tools at regular intervals for ensuring required slope for proper drainage | | | | |
| | PC7. check that concrete is mixed in appropriate proportion | | | | |
| | PC8. visually assess the concrete mix for usability and workability | | | | |
| | *Carry out IPS flooring* | **15** | **35** | | |
| | PC9. ix the baton strip in cement mortar with their tops at appropriate level and according to slope | | | | |
| | PC10. ensure panels are made as per specified size | | | | |

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| | PC11. pour concrete as per requirement up to approved floor level | | | | |
| | PC12. level poured concrete to the specified levels maintaining required slope | | | | |
| | PC13. remove excess cement slurry and any marks on the surface | | | | |
| | PC14. level the concrete surface with a straight edge and to the required finish with a wooden float / trowel | | | | |
| | PC15. cut groves on concrete at specified intervals for construction joints | | | | |
| | PC16. spread cement punning over the IPS concrete for smooth finish surface and allow it to soak into the concrete, as per requirement | | | | |
| | PC17. ensure curing of the finished floor surface for the specified time | | | | |
| **NOS Total** | | **30** | **70** | **-** | **-** |

| NOS/Module Name | Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|---|---|---|---|---|---|
| Carry out reinforcement steel works for R.C.C structures in rural construction | *Read sketches relevant to R.C.C footing, column, beam and slab* | 10 | 20 | | |
| | PC1. read basic detail from the sketches / drawings | | | | |
| | PC2. calculate cutting length of rebar from the sketches/drawing | | | | |
| | PC3. calculate number of chairs, spacer bars requirement to be used | | | | |
| | PC4. plan for cutting of re-bars as per requirement | | | | |
| | *Use hand/power tools for cutting and bending of reinforcement steel bars* | 10 | 25 | | |
| | PC5. select appropriate personal protective equipment (P.P.E.s) for the task | | | | |
| | PC6. select hand tools/power tools for cutting re- bars as per requirement | | | | |
| | PC7. mark cutting length on rebar and cut rebar using hand/power tools | | | | |
| | PC8. select hand tools for bending rebars according to diameter of rebar to be bend | | | | |
| | PC9. mark length on rebar and bend re- | | | | |

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| | bar as per the shape and dimensions given in the sketches including hooks | | | | |
| | PC10. maintain correct body posture while cutting and bending rebars manually or mechanically | | | | |
| | PC11. check for length, shape of rebars to ensure they are within the tolerance limit | | | | |
| | PC12. stack re-bars after cutting and bending as per standards practices | | | | |
| | *Fabricate place and fix reinforcement steel for R.C.C footing, column, beam and slab* | **10** | **25** | | |
| | PC13. select appropriate personal protective equipment (P.P.E.s) for the task | | | | |
| | PC14. select re-bars for placement as per the drawing/sketches | | | | |
| | PC15. follow correct method for insertion/ fixing of rebars for footing, column, beam and slab, place and fix on its position | | | | |
| | PC16. maintain uniform spacing between the bars, stirrups, link rod as per the drawing/sketches | | | | |
| | PC17. stagger the lap to avoid more than | | | | |

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| | 50% of splicing | | | | |
| | PC18. tie reinforcement with binding wires as per drawing with specified spacing | | | | |
| | PC19. ensure that location and position of reinforcement and fixing ties to reinforcement are checked for accuracy | | | | |
| | PC20. place cover blocks and spacers are placed to maintain appropriate covers & spacing | | | | |
| | PC21. place and fix chairs at specified spacing to maintain correct thickness | | | | |
| | PC22. check quality of reinforcement work with reference to spacing, placement, straightness of bar, rigidity of ties etc. | | | | |
| **NOS Total** | | **30** | **70** | **-** | **-** |
| **NOS/Module Name** | **Assessment Criteria for Outcomes** | **Theory Marks** | **Practical Marks** | **Project Marks** | **Viva Marks** |
| **Carry out shuttering works in rural construction** | *Use hand tool for making wooden shutter board* | **10** | **20** | | |
| | PC1. select appropriate personal protective equipment (P.P.E.s) for the task | | | | |
| | PC2. check that all fixtures, consumables | | | | |

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| | and materials are available for shutter making | | | | |
| | PC3. carry out visual check to ensure materials for making shutters such as timber, plywood etc. are of good quality | | | | |
| | PC4. use measurement and marking tools for marking | | | | |
| | PC5. select and use regular hand tools such as hand saw, chisel, jack hammer, nailing hammer, hand drill and other tools efficiently | | | | |
| | PC6. make wooden shutter panels using different types of joints such as dovetail, tenon & mortise, lap joints as per requirement | | | | |
| | *Carry out shuttering works in rural construction for R.C.C footing, column, beam and slab* | **10** | **25** | | |
| | PC7. clean the shutter panels before using for shuttering work | | | | |
| | PC8. apply release agents to sheathing material | | | | |
| | PC9. check and ensure all tools, material, components are available as per requirements | | | | |

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| | PC10. check that fixing and fasteners are available as per requirement | | | | |
| | PC11. position and provide necessary support for footing, column, beam and slab shuttering | | | | |
| | PC12. plug all openings and gaps using appropriate materials | | | | |
| | PC13. ensure water tightness of form by providing form sheet or necessary packing material | | | | |
| | PC14. position and fix props properly and check for plumb, position and spacing | | | | |
| | PC15. ensure tightness of tie rods, supports, and bracings | | | | |
| | PC16. check erected formwork for line, level, alignment and plumb within tolerance limit | | | | |
| | PC17. check the dimensional accuracy and right angle and take necessary corrective measures if required | | | | |
| | PC18. ensure the RCC structure has gained sufficient strength before dismantling | | | | |
| | PC19. dismantle formwork shutters sequentially as per standard practices | | | | |
| | PC20. ensure that all the small | | | | |

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| | components are stacked properly for further use | | | | |
| | PC21. repair formwork material if required and ensure cleaning and proper stacking after dismantling | | | | |
| | *Carry out scaffolding works using bamboo/ ballies or pipes and coupler for supporting rural construction activities* | | | | |
| | PC22. level area where scaffold need to be erected and check for ground compactness if required | | | | |
| | PC23. select appropriate material for scaffolding as per requirement | | | | |
| | PC24. erect scaffold sequentially as per requirement using locally available material (bamboo/ballies or pipes and coupler) | **10** | **25** | | |
| | PC25. check for stability, rigidity and necessary support to scaffold | | | | |
| | PC26. fix walk boards, guard rails and other components on working platform | | | | |
| | PC27. dismantle scaffold sequentially and stack material properly after removing for further use | | | | |
| **NOS Total** | | **30** | **70** | | |

| NOS/Module Name | Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|---|---|---|---|---|---|
| **Carry out manual concreting in rural construction** | *Carry out preparatory work before pouring of manual concrete* | **10** | **20** | | |
| | PC1. ensure surface is prepared appropriately and address any deviation in slope / alignment or undulations in surface prior to concreting | | | | |
| | PC2. ensure rectification of any gaps in formwork to avoid leakage | | | | |
| | PC3. check for misalignment in formwork/reinforcement and ensure proper cover for reinforcement is provided | | | | |
| | PC4. use potable water for concrete preparation | | | | |
| | PC5. visually check the grade of cement and manufactures date prior to use | | | | |
| | PC6. visually check quality of aggregate and ensure it is free from organic impurities | | | | |
| | PC7. check and ensure concrete is mixed as per specification | | | | |
| | PC8. visually assess the concrete mix for usability and workability | | | | |

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| | *Carry out pouring and compaction of concrete* | **10** | **25** | | |
| | PC9. ensure standard pouring height for concrete is maintained throughout pouring | | | | |
| | PC10. ensure pouring of concrete takes place in specified layers | | | | |
| | PC11. pour concrete to maintain specified levels & cover for steel reinforcement | | | | |
| | PC12. use tamping rod/hand concrete vibrator for compaction of concrete | | | | |
| | *Finish and cure concrete* | **10** | **25** | | |
| | PC13. spread the concrete as per requirements using appropriate tools and technique | | | | |
| | PC14. push excess concrete towards the formwork for easy removal | | | | |
| | PC15. level the edges and corners as per requirement using appropriate tools for semi- finished concrete | | | | |
| | PC16. smoothen the surface using appropriate tools, to ensure a consistent and durable final finish | | | | |
| | PC17. apply a final finish on the surface as per requirements | | | | |

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| | PC18. ensure cleaning and removal of spilled concrete is carried out after work | | | | |
| | PC19. ensure proper curing of concrete by marking and monitoring of the curing time | | | | |
| **NOS Total** | | **30** | **70** | **-** | **-** |
| **NOS/Module Name** | **Assessment Criteria for Outcomes** | **Theory Marks** | **Practical Marks** | **Project Marks** | **Viva Marks** |
| **Select, harvest and prepare the bamboo for the construction works** | *Carry out selection and harvesting of bamboo* | **15** | **35** | | |
| | PC1. identify different types and species of bamboo | | | | |
| | PC2. select the appropriate bamboo for the construction work based on physical description, length, diameters, gaps between rings (nodes), and wall thickness (not less than 12mm) of the bamboo. | | | | |
| | PC3. ensure wall thickness of bamboo selected is not less than 12mm | | | | |
| | PC4. identify recommended culm and clump for harvesting bamboo using 'horse foot technique | | | | |
| | PC5. use jigs and tools for harvesting bamboo without damaging upcoming tender shoots | | | | |

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| | *Perform treatment of bamboo* | **15** | **35** | | |
| | PC6. perform preparatory activity prior to the treatment of bamboo such as cleaning of culms | | | | |
| | PC7. set up the "Bamboo treatment plant" for in- situ treatment of bamboo as per applicability | | | | |
| | PC8. carry out different methods for the treatment of bamboo such as soaking methods, injecting method, boiling method and/ or pressure treatment | | | | |
| | PC9. prepare chemical-water solution in specified ratio for the treatment of the bamboo | | | | |
| | PC10. check and prepare the pressure gauge for pressure treatment of the bamboo | | | | |
| | PC11. attach the bamboo to the machine/ pump of the treatment plant as per the specifications | | | | |
| | PC12. perform the treatment of the bamboo as per recommended pressure and procedures | | | | |
| | PC13. carry out grading and storing of treated culm/ bamboo as per the specification | | | | |

| NOS Total | | 30 | 70 | | |
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| **NOS/Module Name** | **Assessment Criteria for Outcomes** | **Theory Marks** | **Practical Marks** | **Project Marks** | **Viva Marks** |
| **Select, stack and perform visual quality checks on bamboo used for construction purpose** | *Carry out selection, stacking and performing visual quality checks of treated bamboo for use in construction* | **30** | **70** | | |
| | PC1. perform visual checks and confirm that bamboo is of recommended species and of required age | | | | |
| | PC2. select bamboo for use in different parts of a structure | | | | |
| | PC3. check and confirm straightness of bamboo members | | | | |
| | PC4. check for maximum to minimum diameter of the members, wall thickness of bamboo, internode distance, internode distance to diameter ratio | | | | |
| | PC5. perform visual checks f and confirm that the treatment process is acceptable as per the instruction manual | | | | |
| | PC6. ensure sorting, stacking and storage of treated bamboos members as per their use | | | | |
| | PC7. carry out visual quality checks for shrinkage post component production | | | | |

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| | PC8. carry out visual quality checks on available types of bamboo/bamboo based mats to ensure they are in accordance with standards quality requirements | | | | |
| **NOS Total** | | **30** | **70** | **-** | **-** |
| **NOS/Module Name** | **Assessment Criteria for Outcomes** | **Theory Marks** | **Practical Marks** | **Project Marks** | **Viva Marks** |
| **Cut, shape, drill and join treated bamboo for making of mat, posts, joints, ties, beams and bracing used for building construction** | *Carry out cutting, shaping drilling and jointing of treated bamboo members for making of mat, posts, joints, ties, beams and bracing used for building construction* | **30** | **70** | | |
| | PC1. read and interpret the drawing relevant to bamboo construction works | | | | |
| | PC2. list out the components required for all the members and label them as per specification | | | | |
| | PC3. ensure the treated bamboo for any signs of damage is free from damages | | | | |
| | PC4. cut the posts, horizontal members, diagonal bracings, etc. as per drawing and label them (joint numbers | | | | |
| | PC5. mark a template for truss making on the ground as per the drawings | | | | |

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| | PC6. cut the treated bamboo to size of components for rafters, ties, struts, wind bracings raking members and purlins- number the member ends | | | | |
| | PC7. make 10mm diameter holes in the appropriate locations and numbers as per the drawing using hand auger or power drills | | | | |
| **NOS Total** | | **30** | **70** | **-** | **-** |
| **NOS/Module Name** | **Assessment Criteria for Outcomes** | **Theory Marks** | **Practical Marks** | **Project Marks** | **Viva Marks** |
| **Construct simple rural buildings with treated bamboo** | *Carry out preparatory works for construction of simple rural building* | **5** | **15** | | |
| | PC1. read and interpret the sketches of the building | | | | |
| | PC2. select tools required for the task and ensure they are in working condition | | | | |
| | PC3. set out the layouts as per sketches/drawings | | | | |
| | PC4. ensure transfer of loading points as per the layouts using water level tubes, plumb bobs to check 90 degree. | | | | |
| | PC5. ensure proper protection of bamboo members from moisture when in contact with ground | | | | |

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| | PC6. connect base of the bamboo member to a stone/concrete foundation/ top of toe wall as per the sketches | | | | |
| | PC7. ensure appropriate protection of bamboo posts, ties and bracings | | | | |
| | *Carry out erection of superstructure with bamboo components* | **10** | **20** | | |
| | PC8. plan and organise work resources for construction of superstructure | | | | |
| | PC9. sort different components and stack them as per use | | | | |
| | PC10. use appropriate Personal Protective Equipment (P.P.E.s) for the task | | | | |
| | PC11. ensure work place is clear for undertaking the super-structure work | | | | |
| | PC12. place and anchor the posts at base and tie them at roof, lintel and sill level | | | | |
| | PC13. fix the bracings by fitting all joints with MS bolts (10mm) and tying with GI wire, nylon ropes or equivalent materials | | | | |
| | PC14. confirm placement of door and window frames as per the drawing | | | | |
| | PC15. carry out erection of simple bamboo mat walls or Ekra as per | | | | |

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| | specification/ instruction | | | | |
| | PC16. carry out plastering of the bamboo mats with cement stabilised mud /cement sand mortar, or plaster reinforced with chicken wire mesh as per applicability | | | | |
| | *Carry out erection of roofing truss, purlins, ties, bracings etc.* | **5** | **15** | | |
| | PC17. plan and organise the sequence work for erection of roof truss | | | | |
| | PC18. identify the labelled components as per specifications | | | | |
| | PC19. use PPE's for roof truss erection and follow precaution while working at height | | | | |
| | PC20. place the truss on the vertical posts as per specifications/ drawings | | | | |
| | PC21. fabricate trusses, based on the template, using the members cut to sizes as per specifications and joint numbering | | | | |
| | PC22. connect all the joints using MS bolts and nuts with double washers and secure them by tying with GI wire, nylon rope or equivalent material | | | | |
| | PC23. fix purlins and rafters simultaneously as the trusses are | | | | |

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| | erected to ensure stability of the trusses in standing position. | | | | |
| | PC24. fix all the roof framing components including all trusses, purlins and wind bracing as per the drawing | | | | |
| | PC25. bolt the joints with MS 10mm diameter bolt and tie with GI wires at all the locations where the purlins rest including the component joint. | | | | |
| | *Fix roof cladding, CGI or bamboo sheets* | **10** | **20** | | |
| | PC26. perform visual checks for the quality of roofing sheets | | | | |
| | PC27. use PPE's for roof cladding and follow precaution while working at height | | | | |
| | PC28. fix the roofing sheets to the bamboo truss using J – Hooks | | | | |
| | PC29. fix ridge cap, valley and hip covers | | | | |
| | PC30. fix GI gutters at eaves end for collection of rainwater. | | | | |
| **NOS Total** | | **30** | **70** | **-** | **-** |

| NOS/Module Name | Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|---|---|---|---|---|---|
| **Follow seismic and wind safety protection measures for bamboo buildings** | *Preparatory works for construction of simple rural building* | **30** | **70** | | |
| | PC1. place the seismic and wind bracing members at the specified location and as per recommended orientation in the super structure | | | | |
| | PC2. carry out specified placement of the diagonal bracing members in the roof structure and carry out a recommended jointing | | | | |
| | PC3. carry out winding of GI or equivalent ropes at joints to avoid stress concentration during seismic and high winds | | | | |
| | PC4. fix J hook fitting to avoid high wind suction of CGI sheets | | | | |
| | PC5. fix metal arresters to avoid lifting of roofing sheets in very high wind areas | | | | |
| **NOS Total** | | **30** | **70** | | |

| NOS/Module Name | Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|---|---|---|---|---|---|
| **Construct buildings using Compressed Stabilized Earth Block (CSEB)** | *Carry out preparatory activities for masonry work* | **5** | **20** | | |
| | PC1. read and interpret the sketches for super- structure works | | | | |
| | PC2. select required tools for the task and ensure they are in working condition | | | | |
| | PC3. select appropriate Personal Protective Equipment (P.P.E.s) for the task | | | | |
| | PC4. ensure work place is clear for undertaking the super-structure work | | | | |
| | PC5. select and secure flat areas to stack CSEB blocks. | | | | |
| | PC6. carry out preparation of working platform for mortar mixing | | | | |
| | PC7. lay the zero course(without mortar) of CSEB masonry as per sketches/drawings | | | | |
| | PC8. visually check the CSEB for defect such as breaking joints | | | | |
| | PC9. check horizontal and vertical straightness using water level tubes, plum bobs and other methods | | | | |

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| | PC10. select and prepare/procure appropriate tools for testing of soil | | | | |
| | PC11. secure sources for sand, mud and water supply | | | | |
| | *Carry out visual checks on CSEB and test soil types to prepare stabilized sand-mud mortar for carrying out masonry, pointing and plastering work* | | | | |
| | PC12. select appropriate soil and sand for preparation of stabilized sand-mud mortar | | | | |
| | PC13. conduct field tests and in select cases, may be laboratory tests | | | | |
| | PC14. procure sand and soil of required quantities | **5** | **10** | | |
| | PC15. perform visual checks on the CSEB for strength, soundness, moisture absorption prior to use | | | | |
| | PC16. screen selected soil and sand before use | | | | |
| | PC17. select appropriate tools and equipment as per the tasks ensuring they are in working condition | | | | |
| | *Lay CSEB for construction of load bearing / non-load bearing wall, columns in stretcher and English bond for different* | **10** | **15** | | |

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| | *block sizes* | | | | |
| | PC18. estimate the quantity of CSEB and mortar material required for English and stretcher bond- full blocks, half and 3/4th blocks | | | | |
| | PC19. perform visual checks for quality of CSEB prior to use | | | | |
| | PC20. ensure fine aggregate and mud are sieved as per specification/instruction | | | | |
| | PC21. ensure proper stacking of CSEB of required numbers as per requirement at the work place | | | | |
| | PC22. ensure soaking of CSEB prior to commencement of work | | | | |
| | PC23. break blocks to required shape and size using appropriate tools following appropriate safety measures | | | | |
| | PC24. lay and fix CSEB blocks for walls both load bearing and non-load bearing wall masonry for columns and walls in English (up to 1&1/2 bricks wall)and stretcher bond for different block sizes | | | | |
| | PC25. construct T, L, Crossing, opening ends in CSEB of different sizes | | | | |
| | PC26. provide vertical reinforcement at corners and in opening jambs and | | | | |

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| | horizontal bands as per sketches for seismic protection | | | | |
| | PC27. check vertical and horizontal alignment using appropriate tools | | | | |
| | PC28. maintain line and level of each course of CSEB work using wooden / aluminum straight edge sections | | | | |
| | PC29. set out 90° corners using builder's square or 3-4-5 method and check right angles of corner, T, crossing | | | | |
| | PC30. ensure adequate curing of constructed masonry structure | | | | |
| | *Carry out fixing of door and window frames in CSEB masonry wall of different block sizes* | **5** | **15** | | |
| | PC31. mark, set out location of frames of doors, windows and ventilators | | | | |
| | PC32. check and carry out proper alignment of the frame and hold in position with temporary support | | | | |
| | PC33. check the holdfast position and grout it (1:1.5:3 CC) between CSEB blocks in wall | | | | |
| | PC34. fill the gap between wall and door frame with non-shrink material/grout fix wooden/metal panels for doors, | | | | |

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| | windows and ventilators | | | | |
| | *Carry out pointing in CSEB masonry of different block sizes* | 5 | 10 | | |
| | PC35. ensure that joints are cleaned and surface is wet prior to pointing | | | | |
| | PC36. ensure lime/cement-sand-mud mortar for pointing is prepared as per specification (10% stabilization) | | | | |
| | PC37. fill joints with cement/lime stabilized mortar (10% stabilization) to obtain specified type of pointing | | | | |
| | PC38. carry out flush pointing using recommended tools and technique | | | | |
| | PC39. ensure specified curing of pointing works | | | | |
| **NOS Total** | | **30** | **70** | **-** | **-** |
| **NOS/Module Name** | **Assessment Criteria for Outcomes** | **Theory Marks** | **Practical Marks** | **Project Marks** | **Viva Marks** |
| **Build structures using random rubble masonry for rural construction** | *Carry out preparatory work for Rubble Masonry* | **10** | **20** | | |
| | PC1. ensure that the correct tools, and tackles are selected for use in the rubble Masonry | | | | |
| | PC2. select appropriate personal | | | | |

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| | protective equipment (P.P.E) for the task | | | | |
| | PC3. roughly estimate amount of materials required to complete a rubble masonry work | | | | |
| | PC4. ensure that the sub-base is prepared properly and surface is cleaned before laying the stone | | | | |
| | PC5. identify and transfer required levels using appropriate tools prior to rubble masonry work | | | | |
| | *Lay out coursed and un coursed Random Rubble Masonry with undressed or hammer dressed stones* | **10** | **25** | | |
| | PC6. mix cement /lime/mud mortar for rubble masonry in specified ratio | | | | |
| | PC7. check for workability and proportion of cement/lime/ mud mortar | | | | |
| | PC8. prepare the sides, edges, bed of stone to ensure proper bonding of stones | | | | |
| | PC9. ensure proper wetting of stones prior to laying | | | | |
| | PC10. work with both undressed and hammer dressed stones as per the requirement | | | | |
| | PC11. lay stones to build wall of un- | | | | |

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| | course random rubble or course random rubble as per drawing/sketch | | | | |
| | PC12. use through stones or bond stones at specified intervals | | | | |
| | PC13. use large stones at the corners and at jambs to increase the strength | | | | |
| | PC14. check horizontal and vertical alignment using appropriate tools | | | | |
| | PC15. set out 90 corners using builders square or 3-4-5 method and check right angle if required | | | | |
| | PC16. ensure proper curing of rubble masonry structure | | | | |
| | *Carry out flush/raised pointing in stone masonry* | **10** | **25** | | |
| | PC17. perform raking of joints as specified prior to drying of bonding mortar | | | | |
| | PC18. ensure that joints are cleaned and surface is wet prior to pointing | | | | |
| | PC19. ensure lime/cement mortar for pointing is prepared as per specification | | | | |
| | PC20. fill joints with appropriate mortar to obtain specified type of pointing | | | | |
| | PC21. carry out flush/raised pointing as | | | | |

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| | per specification using appropriate tools and technique | | | | |
| | PC22. ensure proper curing of pointing | | | | |
| **NOS Total** | | **30** | **70** | | |

# 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 **Rural Mason** 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 **Rural Mason** 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