

## QUALIFICATION FILE

### Fabricator

☒ 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: 4

#### 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](mailto:abhisek@csdcindia.org)

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## Section 1: Basic Details

| 1.     | <b>Qualification Name</b>                                                                                                                                                             | <b>Fabricator</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                    |        |                                                                    |                                                           |    |                 |  |    |                                                                                                 |  |    |                 |                            |    |                             |                            |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--------|--------------------------------------------------------------------|-----------------------------------------------------------|----|-----------------|--|----|-------------------------------------------------------------------------------------------------|--|----|-----------------|----------------------------|----|-----------------------------|----------------------------|
| 2.     | <b>Sector/s</b>                                                                                                                                                                       | <b>Construction</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                    |        |                                                                    |                                                           |    |                 |  |    |                                                                                                 |  |    |                 |                            |    |                             |                            |
| 3.     | <b>Type of Qualification:</b> <input type="checkbox"/> New <input checked="" type="checkbox"/> Revised <input type="checkbox"/> Has Electives/Options<br><input type="checkbox"/> OEM | <b>NQR Code &amp; version of existing/previous qualification:</b> (QG-3.5-CO-03380-2024-V1.1-CSDCI, v4.0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Qualification Name of existing/previous version:</b> Fabricator |        |                                                                    |                                                           |    |                 |  |    |                                                                                                 |  |    |                 |                            |    |                             |                            |
| 4.     | a. OEM Name<br>b. Qualification Name<br>(Wherever applicable)                                                                                                                         | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                    |        |                                                                    |                                                           |    |                 |  |    |                                                                                                 |  |    |                 |                            |    |                             |                            |
| 5.     | <b>National Qualification Register (NQR) Code &amp;Version</b><br>(Will be issued after NSQC approval)                                                                                | QG-04-CO-03956-2025-V2-CSDCI & v 5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6. <b>NCrF/NSQF Level:</b> 4                                       |        |                                                                    |                                                           |    |                 |  |    |                                                                                                 |  |    |                 |                            |    |                             |                            |
| 7.     | <b>Award (Certificate/Diploma/Advanced Diploma/ Any Other</b> (Wherever applicable specify multiple entry/exits also & provide details in annexure)                                   | <b>Certificate</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                    |        |                                                                    |                                                           |    |                 |  |    |                                                                                                 |  |    |                 |                            |    |                             |                            |
| 8.     | <b>Brief Description of the Qualification</b>                                                                                                                                         | A Fabricator is responsible for conducting various activities, such as surface cleaning, edge/ joint preparation, connection of the components/ steel sections, etc., as well as the erection of these assemblies.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                    |        |                                                                    |                                                           |    |                 |  |    |                                                                                                 |  |    |                 |                            |    |                             |                            |
| 9.     | <b>Eligibility Criteria for Entry for Student/Trainee/Learner/Employee</b>                                                                                                            | <b>a. Entry Qualification &amp; Relevant Experience:</b> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Academic/Skill Qualification (with Specialization - if applicable)</th> <th>Required Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>12th grade pass</td> <td></td> </tr> <tr> <td>2.</td> <td>Completed 2nd year of 3-year diploma after 10<sup>th</sup> (in Civil / Mechanical Engineering)</td> <td></td> </tr> <tr> <td>3.</td> <td>11th grade pass</td> <td>1-year relevant experience</td> </tr> <tr> <td>4.</td> <td>10<sup>th</sup> grade pass</td> <td>2-year relevant experience</td> </tr> </tbody> </table> |                                                                    | S. No. | Academic/Skill Qualification (with Specialization - if applicable) | Required Experience (with Specialization - if applicable) | 1. | 12th grade pass |  | 2. | Completed 2nd year of 3-year diploma after 10 <sup>th</sup> (in Civil / Mechanical Engineering) |  | 3. | 11th grade pass | 1-year relevant experience | 4. | 10 <sup>th</sup> grade pass | 2-year relevant experience |
| S. No. | Academic/Skill Qualification (with Specialization - if applicable)                                                                                                                    | Required Experience (with Specialization - if applicable)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                    |        |                                                                    |                                                           |    |                 |  |    |                                                                                                 |  |    |                 |                            |    |                             |                            |
| 1.     | 12th grade pass                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                    |        |                                                                    |                                                           |    |                 |  |    |                                                                                                 |  |    |                 |                            |    |                             |                            |
| 2.     | Completed 2nd year of 3-year diploma after 10 <sup>th</sup> (in Civil / Mechanical Engineering)                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                    |        |                                                                    |                                                           |    |                 |  |    |                                                                                                 |  |    |                 |                            |    |                             |                            |
| 3.     | 11th grade pass                                                                                                                                                                       | 1-year relevant experience                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                    |        |                                                                    |                                                           |    |                 |  |    |                                                                                                 |  |    |                 |                            |    |                             |                            |
| 4.     | 10 <sup>th</sup> grade pass                                                                                                                                                           | 2-year relevant experience                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                    |        |                                                                    |                                                           |    |                 |  |    |                                                                                                 |  |    |                 |                            |    |                             |                            |

|                         |                                                                                                                                                              | 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8th grade pass                                                                  | 4-year relevant experience                                        |               |                         |                |                   |                       |                         |               |                     |     |     |    |  |     |        |  |  |  |  |  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------|-------------------------|----------------|-------------------|-----------------------|-------------------------|---------------|---------------------|-----|-----|----|--|-----|--------|--|--|--|--|--|
|                         |                                                                                                                                                              | 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Previous relevant Qualification of NSQF Level 3.5 (Construction Fitter)         | 1.5-year relevant experience                                      |               |                         |                |                   |                       |                         |               |                     |     |     |    |  |     |        |  |  |  |  |  |
|                         |                                                                                                                                                              | 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Previous relevant Qualification of NSQF Level 3 (Assistant Construction Fitter) | 3-year relevant experience                                        |               |                         |                |                   |                       |                         |               |                     |     |     |    |  |     |        |  |  |  |  |  |
|                         |                                                                                                                                                              | b. Min. Job Entry Age: As per Govt. Norms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                 |                                                                   |               |                         |                |                   |                       |                         |               |                     |     |     |    |  |     |        |  |  |  |  |  |
| 10.                     | Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))                                                      | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                 | 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) | <input checked="" type="checkbox"/> Offline <input type="checkbox"/> Online <input type="checkbox"/> Blended<br><table border="1"> <thead> <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> </thead> <tbody> <tr> <td>Classroom (offline)</td><td>120</td><td>270</td><td>60</td><td></td><td>450</td></tr> <tr> <td>Online</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> (Refer Blended Learning Annexure for details) |                                                                                 |                                                                   |               | Training Delivery Modes | Theory (Hours) | Practical (Hours) | OJT Mandatory (Hours) | OJT Recommended (Hours) | Total (Hours) | Classroom (offline) | 120 | 270 | 60 |  | 450 | Online |  |  |  |  |  |
| Training Delivery Modes | Theory (Hours)                                                                                                                                               | Practical (Hours)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | OJT Mandatory (Hours)                                                           | OJT Recommended (Hours)                                           | Total (Hours) |                         |                |                   |                       |                         |               |                     |     |     |    |  |     |        |  |  |  |  |  |
| Classroom (offline)     | 120                                                                                                                                                          | 270                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 60                                                                              |                                                                   | 450           |                         |                |                   |                       |                         |               |                     |     |     |    |  |     |        |  |  |  |  |  |
| Online                  |                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                 |                                                                   |               |                         |                |                   |                       |                         |               |                     |     |     |    |  |     |        |  |  |  |  |  |
| 14.                     | Aligned to NCO/ISCO Code/s (if no code is available mention the same)                                                                                        | NCO-2015/7213.0200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                 |                                                                   |               |                         |                |                   |                       |                         |               |                     |     |     |    |  |     |        |  |  |  |  |  |
| 15.                     | Progression path after attaining the qualification (Please show Professional and Academic progression)                                                       | Senior Construction Welder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                 |                                                                   |               |                         |                |                   |                       |                         |               |                     |     |     |    |  |     |        |  |  |  |  |  |
| 16.                     | Other Indian languages in which the Qualification & Model Curriculum are being submitted                                                                     | Hindi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                 |                                                                   |               |                         |                |                   |                       |                         |               |                     |     |     |    |  |     |        |  |  |  |  |  |
| 17.                     | Is similar Qualification(s) available on NQR-if yes, justification for this qualification                                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No URLs of similar Qualifications:                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                 |                                                                   |               |                         |                |                   |                       |                         |               |                     |     |     |    |  |     |        |  |  |  |  |  |

|     |                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                         |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 18. | <b>Is the Job Role Amenable to Persons with Disability</b>                                                                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><b>If "Yes", specify applicable type of Disability:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                         |
| 19. | <b>How Participation of Women will be Encouraged</b>                                                                                                    | To encourage women to participate in Fabrication 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 Fabrication 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 Fabrication job roles, through policies and practices that support work-life balance, equal pay and promotion opportunities, and a safe and respectful workplace. |                                         |
| 20. | <b>Are Greening/ Environment Sustainability Aspects Covered</b><br>(Specify the NOS/Module which covers it)                                             | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>CON/N9001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                         |
| 21. | <b>Is Qualification Suitable to be Offered in Schools/Colleges</b>                                                                                      | Schools <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Colleges <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                         |
| 22. | <b>Name and Contact Details of Submitting / Awarding Body</b><br><b>SPOC</b><br>(In case of CS or MS, provide details of both Lead AB & Supporting ABs) | Name: Abhisek Prasad Mishra<br>Email: <a href="mailto:abhisek@csdcindia.org">abhisek@csdcindia.org</a><br>Contact No.: 0124-4513915-18 Ext-23<br>Website: <a href="http://www.csdcindia.org">www.csdcindia.org</a>                                                                                                                                                                                                                                                                                                                                                                               |                                         |
| 23. | <b>On- File Approval Date by NSQC: 07-05-2025</b>                                                                                                       | <b>24. Validity Duration: 3 Years</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>25. Next Review Date: 30-04-2028</b> |

## 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.    | Inspect the fabrication materials and conduct their surface cleaning                      | CON/N1210 & V 5.0                         | Core           | 4               | 2                   | 15                        | 35  | 10       | -        | 60    | 30               | 70  | -     | -    | 100   | 20                            |
| 2.    | Conduct joint preparation, connection activities and repair work in fabricated assemblies | CON/N1211 & V 5.0                         | Core           | 4               | 4                   | 30                        | 70  | 20       | -        | 120   | 30               | 70  | -     | -    | 100   | 25                            |
| 3.    | Erect structural steel assemblies at construction sites                                   | CON/N0717 & V 5.0                         | Core           | 4               | 5                   | 30                        | 90  | 30       | -        | 150   | 30               | 70  | -     | -    | 100   | 30                            |

| 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.                                       | 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                            |
| 5.                                       | Work effectively in a team to deliver desired results at the workplace                   | CON/N8001 & V 3.0                         | Non-Core       | 4               | 1                   | 05                        | 25         | -         | -        | 30         | 30               | 70         | -        | -        | 100        | 5                             |
| 6.                                       | Plan and organize work to meet expected outcomes                                         | CON/N8002 & V 4.0                         | Non-Core       | 4               | 1                   | 05                        | 25         | -         | -        | 30         | 30               | 70         | -        | -        | 100        | 5                             |
| 7.                                       | Employability Skills (30 Hours)                                                          | DGT/VSQ/N0101 & V 1.0                     | Non-Core       | 2               | 1                   | 30                        | -          | -         | -        | 30         | 20               | 30         | -        | -        | 50         | 5                             |
| <b>Duration (in Hours) / Total Marks</b> |                                                                                          |                                           |                |                 | <b>15</b>           | <b>120</b>                | <b>270</b> | <b>60</b> | <b>-</b> | <b>450</b> | <b>200</b>       | <b>450</b> | <b>-</b> | <b>-</b> | <b>650</b> | <b>100</b>                    |

Elective NOS/s:

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

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

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

Optional NOS/s:

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

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

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

## Assessment - Minimum Qualifying Percentage

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

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

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

## Section 3: Training Related

| 1. | Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines) | Minimum Educational Qualification | Specialization                 | Relevant Industry Experience |                                             | Preferable Training Experience |                         |
|----|----------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------|------------------------------|---------------------------------------------|--------------------------------|-------------------------|
|    |                                                                                                    |                                   |                                | Years                        | Specialization                              | Years                          | Specialization          |
|    |                                                                                                    | B.E. / B.Tech                     | Civil / Mechanical Engineering | 2                            | Fabricating / Welding of Structures at Site | 1                              | Fabrication and Welding |
|    |                                                                                                    | OR                                |                                |                              |                                             |                                |                         |
|    |                                                                                                    | Diploma                           | Civil / Mechanical Engineering | 3                            | Fabricating / Welding of Structures at Site | 1                              | Fabrication and Welding |
|    |                                                                                                    | OR                                |                                |                              |                                             |                                |                         |
|    |                                                                                                    | ITI                               | Relevant Trade                 | 6                            | Fabricating / Welding of Structures at Site | 1                              | Fabrication and Welding |
|    |                                                                                                    | OR                                |                                |                              |                                             |                                |                         |
|    |                                                                                                    | Ex-Army Graduate                  | in any Stream                  | 6                            | Fabricating / Welding of Structures at Site | 1                              | Fabrication and Welding |

|    |                                                                                                                  |                                                                                                                    |                                |                                     |                                             |                                       |                         |
|----|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------|---------------------------------------------|---------------------------------------|-------------------------|
| 2. | <b>Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)</b> | <b>Minimum Educational Qualification</b>                                                                           | <b>Specialization</b>          | <b>Relevant Industry Experience</b> |                                             | <b>Preferable Training Experience</b> |                         |
|    |                                                                                                                  |                                                                                                                    |                                | <b>Years</b>                        | <b>Specialization</b>                       | <b>Years</b>                          | <b>Specialization</b>   |
|    |                                                                                                                  | B.E. / B.Tech                                                                                                      | Civil / Mechanical Engineering | 6                                   | Fabricating / Welding of Structures at Site | 1                                     | Fabrication and Welding |
|    |                                                                                                                  | OR                                                                                                                 |                                |                                     |                                             |                                       |                         |
|    |                                                                                                                  | Diploma                                                                                                            | Civil / Mechanical Engineering | 8                                   | Fabricating / Welding of Structures at Site | 1                                     | Fabrication and Welding |
|    |                                                                                                                  | OR                                                                                                                 |                                |                                     |                                             |                                       |                         |
|    |                                                                                                                  | Existing TOT certified Trainer in Skill Qualification                                                              | Fabricator                     | 2                                   | Fabricating / Welding of Structures at Site | 5                                     | Fabrication and Welding |
| 3. | <b>Tools and Equipment Required for Training</b>                                                                 | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If "Yes", details to be provided in Annexure) |                                |                                     |                                             |                                       |                         |
| 4. | <b>In Case of Revised Qualification, Details of Any Upskilling Required for Trainer</b>                          | Not Applicable                                                                                                     |                                |                                     |                                             |                                       |                         |

## Section 4: Assessment Related

| 1.                                | Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)                | <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 / Mechanical Engineering</td><td>2</td><td>Fabricating / Welding of Structures at Site</td></tr><tr><td colspan="4">OR</td></tr><tr><td>Diploma</td><td>Civil / Mechanical Engineering</td><td>5</td><td>Fabricating / Welding of Structures at Site</td></tr></table>   | Minimum Educational Qualification           | Specialization | Relevant Industry Experience  |  | Years | Specialization | B.E. / B.Tech | Civil / Mechanical Engineering | 2  | Fabricating / Welding of Structures at Site | OR |  |  |  | Diploma | Civil / Mechanical Engineering | 5  | Fabricating / Welding of Structures at Site |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------|-------------------------------|--|-------|----------------|---------------|--------------------------------|----|---------------------------------------------|----|--|--|--|---------|--------------------------------|----|---------------------------------------------|
| Minimum Educational Qualification | Specialization                                                                                                 | Relevant Industry Experience                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                             |                |                               |  |       |                |               |                                |    |                                             |    |  |  |  |         |                                |    |                                             |
|                                   |                                                                                                                | Years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Specialization                              |                |                               |  |       |                |               |                                |    |                                             |    |  |  |  |         |                                |    |                                             |
| B.E. / B.Tech                     | Civil / Mechanical Engineering                                                                                 | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Fabricating / Welding of Structures at Site |                |                               |  |       |                |               |                                |    |                                             |    |  |  |  |         |                                |    |                                             |
| OR                                |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |                |                               |  |       |                |               |                                |    |                                             |    |  |  |  |         |                                |    |                                             |
| Diploma                           | Civil / Mechanical Engineering                                                                                 | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Fabricating / Welding of Structures at Site |                |                               |  |       |                |               |                                |    |                                             |    |  |  |  |         |                                |    |                                             |
| 2.                                | Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)                 | <table><tr><th rowspan="2">Minimum Educational Qualification</th><th rowspan="2">Specialization</th><th colspan="2">Relevant Technical Experience</th></tr><tr><th>Years</th><th>Specialization</th></tr><tr><td>Graduation</td><td>In Relevant Stream</td><td>1</td><td>-</td></tr><tr><td colspan="4">OR</td></tr><tr><td>Diploma</td><td>In Relevant Stream</td><td>2</td><td>-</td></tr></table>                                                                                                                 | Minimum Educational Qualification           | Specialization | Relevant Technical Experience |  | Years | Specialization | Graduation    | In Relevant Stream             | 1  | -                                           | OR |  |  |  | Diploma | In Relevant Stream             | 2  | -                                           |
| Minimum Educational Qualification | Specialization                                                                                                 | Relevant Technical Experience                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                             |                |                               |  |       |                |               |                                |    |                                             |    |  |  |  |         |                                |    |                                             |
|                                   |                                                                                                                | Years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Specialization                              |                |                               |  |       |                |               |                                |    |                                             |    |  |  |  |         |                                |    |                                             |
| Graduation                        | In Relevant Stream                                                                                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -                                           |                |                               |  |       |                |               |                                |    |                                             |    |  |  |  |         |                                |    |                                             |
| OR                                |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |                |                               |  |       |                |               |                                |    |                                             |    |  |  |  |         |                                |    |                                             |
| Diploma                           | In Relevant Stream                                                                                             | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -                                           |                |                               |  |       |                |               |                                |    |                                             |    |  |  |  |         |                                |    |                                             |
| 3.                                | Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines) | <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 / Mechanical Engineering</td><td>10</td><td>Fabricating / Welding of Structures at Site</td></tr><tr><td colspan="4">OR</td></tr><tr><td>Diploma</td><td>Civil / Mechanical Engineering</td><td>12</td><td>Fabricating / Welding of Structures at Site</td></tr></table> | Minimum Educational Qualification           | Specialization | Relevant Industry Experience  |  | Years | Specialization | B.E. / B.Tech | Civil / Mechanical Engineering | 10 | Fabricating / Welding of Structures at Site | OR |  |  |  | Diploma | Civil / Mechanical Engineering | 12 | Fabricating / Welding of Structures at Site |
| Minimum Educational Qualification | Specialization                                                                                                 | Relevant Industry Experience                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                             |                |                               |  |       |                |               |                                |    |                                             |    |  |  |  |         |                                |    |                                             |
|                                   |                                                                                                                | Years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Specialization                              |                |                               |  |       |                |               |                                |    |                                             |    |  |  |  |         |                                |    |                                             |
| B.E. / B.Tech                     | Civil / Mechanical Engineering                                                                                 | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Fabricating / Welding of Structures at Site |                |                               |  |       |                |               |                                |    |                                             |    |  |  |  |         |                                |    |                                             |
| OR                                |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |                |                               |  |       |                |               |                                |    |                                             |    |  |  |  |         |                                |    |                                             |
| Diploma                           | Civil / Mechanical Engineering                                                                                 | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Fabricating / Welding of Structures at Site |                |                               |  |       |                |               |                                |    |                                             |    |  |  |  |         |                                |    |                                             |
| 4.                                | Assessment Mode (Specify the assessment mode)                                                                  | Online and Offline                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                |                               |  |       |                |               |                                |    |                                             |    |  |  |  |         |                                |    |                                             |

|    |                                                    |                                                                                                                                                                                                     |
|----|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5. | <b>Tools and Equipment Required for Assessment</b> | <input checked="" type="checkbox"/> Same as for training <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (details to be provided in Annexure-if it is different for Assessment) |
|----|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Section 5: Evidence of the need for the Qualification

Provide Annexure/Supporting documents name.

|    |                                                                                                                                            |
|----|--------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | <b>Latest Skill Gap Study (not older than 2 years) (Yes/No):</b> Yes                                                                       |
| 2. | <b>Latest Market Research Reports or any other source (not older than 2 years) (Yes/No):</b> Yes                                           |
| 3. | <b>Government /Industry initiatives/ requirement (Yes/No):</b> Yes                                                                         |
| 4. | <b>Number of Industry validation provided:</b> 27                                                                                          |
| 5. | <b>Estimated nos. of persons to be trained and employed:</b> 3,700 and 2,590                                                               |
| 6. | <b>Evidence of Concurrence/Consultation with Line Ministry/State Departments:</b> (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.  | <b>Annexure:</b> NCrf/NSQF level justification based on NCrf level/NSQF descriptors (Mandatory)                      | Yes |
| 2.  | <b>Annexure:</b> List of tools and equipment relevant for qualification (Mandatory, except in case of online course) | Yes |
| 3.  | <b>Annexure:</b> Detailed Assessment Criteria (Mandatory)                                                            | Yes |
| 4.  | <b>Annexure:</b> Assessment Strategy (Mandatory)                                                                     | Yes |
| 5.  | <b>Annexure:</b> Blended Learning (Mandatory, in case selected Mode of delivery is “Blended Learning”)               | No  |
| 6.  | <b>Annexure:</b> Multiple Entry-Exit Details (Mandatory, in case qualification has multiple Entry-Exit)              | No  |
| 7.  | <b>Annexure:</b> Acronym and Glossary (Optional)                                                                     | Yes |
| 8.  | <b>Supporting Document:</b> Model Curriculum (Mandatory – Public view)                                               | Yes |
| 9.  | <b>Supporting Document:</b> Career Progression (Mandatory - Public view)                                             | Yes |
| 10. | <b>Supporting Document:</b> Occupational Map (Mandatory)                                                             | Yes |

|     |                                                        |     |
|-----|--------------------------------------------------------|-----|
| 11. | <b>Supporting Document:</b> Assessment SOP (Mandatory) | Yes |
| 12. | <b>Any other document you wish to submit:</b>          | 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 |
|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>Professional Theoretical Knowledge/Process</b>                           | <ul style="list-style-type: none"> <li>Process of inspecting the fabrication materials and conduct their surface cleaning</li> <li>Process of conducting joint preparation, connection activities and repair work in fabricated assemblies</li> <li>Process of erecting structural steel assemblies at construction sites</li> <li>Process of working effectively in a team to deliver desired results at the workplace</li> <li>Process of working according to personal health, safety and environment protocols at the construction site</li> </ul> | <p>As detailed, the entire process followed by a Fabricator is to inspect the fabrication materials and conduct their surface cleaning; conduct joint preparation, connection activities and repair work in fabricated assemblies; erect structural steel assemblies at construction sites.</p> <p>As the work is routine and is repeated multiple times, the work becomes predictable.</p> <p>As the Fabricators 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.</p> | 4               |
| <b>Professional and Technical Skills/ Expertise/ Professional Knowledge</b> | <ul style="list-style-type: none"> <li>Know the standard procedures for fabrication work</li> <li>Know the organizational procedures relating to inspection of incoming materials</li> <li>Know the standards practices for the safe loading, shifting, and unloading of</li> </ul>                                                                                                                                                                                                                                                                    | <p>The knowledge required for an Fabricator is factual, as it is specific and limited to the knowledge of standard procedures for fabrication work; organizational procedures relating to inspection of incoming materials; standards practices for the safe loading, shifting, and unloading of materials in the fabrication yard/ workshop; methods of cleaning the surface of the</p>                                                                                                                                                                                                | 4               |

|                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                             | <p>materials in the fabrication yard/ workshop</p> <ul style="list-style-type: none"> <li>• Know the different methods of cleaning the surface of the materials, their applications and effects (chemical and physical) on metal</li> <li>• Understand the importance of positions, alignments, fittings for joints and connections</li> <li>• Know the sequence of processes involved in joints and connections formation</li> <li>• Know the different defects arising in the fabricated section, their causes and effects</li> <li>• Know the basic concept of operations like grinding, heating, jacking, etc. used in repairing work</li> <li>• Know the sequence of erection works as per proposed work method statement</li> <li>• Know how to check alignment of erected elements using measuring tools and instruments.</li> </ul> | <p>materials, their applications and effects (chemical and physical) on metal; positions, alignments, fittings for joints and connections; processes involved in joints and connections formation; defects arising in the fabricated section, their causes and effects; basic concept of operations like grinding, heating, jacking, etc. used in repairing work; sequence of erection works as per proposed work method statement; alignment of erected elements using measuring tools and instruments.</p> <p>Therefore, their knowledge is applicable to their field of work only.</p> |   |
| <b>Employment Readiness &amp; Entrepreneurship Skills &amp; Mind-set/Professional Skill</b> | <ul style="list-style-type: none"> <li>• Identify different components/ sections/ accessories required in the steel fabrication work with respect to the specifications/ drawings.</li> <li>• Inspect the surface of the materials/ sections to determine the types of impurities on it.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>As indicated the skill set is required to identify different components/ sections/ accessories required in the steel fabrication work with respect to the specifications/ drawings; inspect the surface of the materials/ sections to determine the types of impurities on it; estimate the quantities of the materials required for the surface cleaning purpose;</p>                                                                                                                                                                                                                 | 4 |

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                           | <ul style="list-style-type: none"> <li>• Estimate the quantities of the materials required for the surface cleaning purpose</li> <li>• Estimate the consumables, tools, equipment and manpower required for the edge/ joint preparation.</li> <li>• Inspect instruments, consumables, tools and equipment visually for their working conditions.</li> <li>• Inspect the component/ assemblies for distortions/ errors in dimensions or other defects.</li> <li>• Identify the most suitable method for correcting the defects.</li> <li>• Estimate roughly the quantity and type of manpower, materials, consumables, tools, equipment and time required for completing the repair work.</li> <li>• Check the availability of provisions for bolting, welding, post-tensioning connections as per the drawing.</li> <li>• Check installation of temporary connections using appropriate tools.</li> </ul> | <p>estimate the consumables, tools, equipment and manpower required for the edge/ joint preparation; inspect instruments, consumables, tools and equipment visually for their working conditions; inspect the component/ assemblies for distortions/ errors in dimensions or other defects; identify the most suitable method for correcting the defects; estimate roughly the quantity and type of manpower, materials, consumables, tools, equipment and time required for completing the repair work: check the availability of provisions for bolting, welding, post-tensioning connections as per the drawing; check for hazardous situations at erection site; check availability of all materials and support equipment; check installation of temporary connections using appropriate tools.</p> |   |
| <b>Broad Learning Outcomes/Core Skill</b> | <ul style="list-style-type: none"> <li>• Carry out inspection and preparatory work for the fabrication work.</li> <li>• Carry out cleaning the surface of steel sections for fabricating steel structures as per the requirement.</li> <li>• Carry out the edge/ joint preparation activities to fabricate the steel structure assemblies.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>The job holder is expected to carry out inspection and preparatory work for the fabrication work; cleaning the surface of steel sections for fabricating steel structures as per the requirement; edge/ joint preparation activities to fabricate the steel structure assemblies; connection activities for components of steel structure assemblies through welding/ bolting; repair of fabricated structural assemblies; preparatory</p>                                                                                                                                                                                                                                                                                                                                                            | 4 |

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                           |   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                       | <ul style="list-style-type: none"> <li>• Carry out the connection activities for components of steel structure assemblies through welding/ bolting.</li> <li>• Carry out the repair of fabricated structural assemblies.</li> <li>• Carry out preparatory activities before the erection of structural assemblies.</li> <li>• Carry out erection structural assemblies as per the relevant drawings</li> </ul>                                                                                                                                                                                                                                                                                                                                                | activities before the erection of structural assemblies; erection structural assemblies as per the relevant drawings                                                                                                      |   |
| <b>Responsibility</b> | <p>The individual in this job role will be responsible for the below-mentioned activities:</p> <ul style="list-style-type: none"> <li>• Inspect the materials required for fabrication work</li> <li>• Conduct surface cleaning of the sections for fabricating steel structures</li> <li>• Conduct edge/ joint preparation and connection activities using welding and bolting methods.</li> <li>• Conduct repair of fabricated components/ assemblies.</li> <li>• Prepare for the erection of structural steel assemblies</li> <li>• Erect structural steel assemblies as per drawing</li> <li>• Interact and communicate in an effective manner</li> <li>• Support co-workers to execute the project requirements</li> <li>• Practice inclusion</li> </ul> | <p>A fabricator is responsible for conducting various activities, such as surface cleaning, edge/ joint preparation, connection of the components/ steel sections, etc., as well as the erection of these assemblies.</p> | 4 |

|  |                                                                                                                                                                                                                                                                                                            |  |  |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|  | <ul style="list-style-type: none"> <li>Follow safety norms as defined by organization</li> <li>Adopt healthy &amp; safe work practices</li> <li>Implement good housekeeping and environment protection process and activities</li> <li>Follow infection control guidelines as per applicability</li> </ul> |  |  |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|

### 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 |
|--------|-----------------------------------|---------------|-----------------------------------|
| 1.     | Drilling Machine with Bits        | Number        | 3                                 |
| 2.     | Electric Screw Gun                | Number        | 3                                 |
| 3.     | Electric Hexa Saw                 | Number        | 3                                 |
| 4.     | Welding Tools and Accessories     | Set           | 3                                 |
| 5.     | Gas Cutting Tools and Accessories | set           | 3                                 |
| 6.     | Grinding Tools and Accessories    | set           | 3                                 |
| 7.     | Pliers                            | Number        | 15                                |
| 8.     | Files                             | Number        | 15                                |
| 9.     | Temperature Gun/ Chalk            | Number        | 5                                 |
| 10.    | Clamps and Anchors                | number        | 30                                |

|     |                          |        |    |
|-----|--------------------------|--------|----|
| 11. | Vices                    | Number | 6  |
| 12. | Tower Crane              | Number | 1  |
| 13. | Mobile Crane             | Number | 1  |
| 14. | Scissor Lift             | Number | 1  |
| 15. | Electric Wire Rope Hoist | Number | 1  |
| 16. | Electrical Winch         | Number | 1  |
| 17. | Electrical Chain Hoist   | Number | 1  |
| 18. | Derrick                  | Number | 1  |
| 19. | Forklift                 | Number | 1  |
| 20. | Slings                   | set    | 6  |
| 21. | Wire Ropes               | Bundle | 3  |
| 22. | Shackles                 | Number | 6  |
| 23. | Spreader Board           | Number | 3  |
| 24. | Chain Link               | Number | 3  |
| 25. | Eye Hook                 | Number | 3  |
| 26. | Eye Bolts                | Number | 3  |
| 27. | Bull Dog Grips           | Number | 20 |
| 28. | Clamp                    | Number | 15 |

|     |                     |        |    |
|-----|---------------------|--------|----|
| 29. | Socket              | Number | 60 |
| 30. | Measuring Tape- 5m  | Number | 30 |
| 31. | Line Dori           | Number | 15 |
| 32. | Scale – 1m          | Number | 15 |
| 33. | Welding Gauge       | Number | 15 |
| 34. | Welding Helmet      | Number | 30 |
| 35. | Welding Glass       | Number | 30 |
| 36. | Hammer              | Number | 10 |
| 37. | Plumb Bob           | Number | 10 |
| 38. | Spirit Level – 1 ft | Number | 10 |
| 39. | Punch               | Number | 15 |
| 40. | Safety Helmet       | Number | 30 |
| 41. | Safety Goggles      | Number | 30 |
| 42. | Safety Shoes        | Pair   | 30 |
| 43. | Safety Belt         | Number | 30 |
| 44. | Safety Gloves       | Number | 30 |
| 45. | Jump Suit           | Number | 30 |
| 46. | Wire Brush          | Number | 15 |

|     |                           |        |    |
|-----|---------------------------|--------|----|
| 47. | Hand & Leg Guards Leather | Number | 30 |
| 48. | Ear Plugs                 | Number | 30 |
| 49. | Reflective Jackets        | Number | 30 |
| 50. | Dust Mask                 | Number | 30 |
| 51. | Fire Prevention Kit       | Number | 2  |
| 52. | Barricade Tape            | Bundle | 5  |
| 53. | Safety Tags               | Number | 10 |
| 54. | Hydraulic Jacks           | Number | 1  |
| 55. | Spud Wrenches             | Number | 10 |
| 56. | Open-End Wrenches         | set    | 6  |
| 57. | Crescent Wrenches         | Number | 10 |
| 58. | Nibbler                   | Number | 3  |
| 59. | Flashback Arrestors       | Number | 10 |
| 60. | Lifting Accessories       | Number | 1  |
| 61. | Chalks Line               | Number | 6  |
| 62. | Try Square                | Number | 6  |
| 63. | Water Level               | Number | 6  |
| 64. | Leather Hand Gloves       | Number | 30 |

|     |                     |        |   |
|-----|---------------------|--------|---|
| 65. | Fire Extinguisher   | Number | 2 |
| 66. | First Aid Box       | Set    | 2 |
| 67. | Sand Buckets        | Number | 5 |
| 68. | Safety Notice Board | Number | 5 |

### 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@Intecc.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@iic.ac.in                                                               |                                                                                 |
| 4  | JK Cement Ltd                                       | Ashish Singh               | General Manager                | Kamla Tower, Kanpur Nagar, UP, 208001                                                                                                    | 9468837057 | ashish.singh1@jkcement.com                                                       |                                                                                 |
| 5  | Kamac Engineers Pvt Ltd                             | Yudhajit Saha              | Manager – Contracts & Planning | Ramkrishna Samity Building, Panitanki More, 40/107, Sevoke Rd, Ward 11, Near Pani Tanki More (Clock Tower), Siliguri, West Bengal 734001 | 8240040261 | planning@kamac.in                                                                |                                                                                 |
| 6  | One Naga Construction Private Limited               | Tunito Alex Zhimomi        | CEO                            | DR.N. Theuno; Bayavu; Near N.B.S Office Area; Kohima; Kohima; Nagaland; 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@opjcraigarh.edu.in                                               |                                                                                 |
| 8  | Poddar Infratech Pvt Ltd                            | Ms. Neha Devgan            | Contracts Manager              | 202, Crowne Heights, Sector 10 , Rohini , New Delhi                                                                                      | 8449521881 | <a href="mailto:letters@poddarinfra.com">letters@poddarinfra.com</a>             |                                                                                 |
| 9  | Santi Nath Basak                                    | Sandip Mandal              | Sr. Project Engineer           | Bankadaha, Bankura, West Bengal-722164                                                                                                   | 6295834148 | smandal014@gmail.com                                                             |                                                                                 |
| 10 | Solidstone Constructions                            | Pragadeeshwaran R J        | Principal Designer &           | 7/2 Perumal Nagar, No4 Veerapandi, CBE – 19                                                                                              | 7904788630 | <a href="mailto:solidstone.projects@gmail.com">solidstone.projects@gmail.com</a> | <a href="https://www.linkedin.com/in/pragadeesh">linkedin.com/in/pragadeesh</a> |

|    |                                                |                     |                                           |                                                                                                                        |            |                                   |                                                              |
|----|------------------------------------------------|---------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------|--------------------------------------------------------------|
|    |                                                |                     | Chief Execution<br>(Civil)                |                                                                                                                        |            |                                   | <a href="mailto:waran-r-j-6baab7193">waran-r-j-6baab7193</a> |
| 11 | Star Projects Services Pvt Ltd                 | H. Asgar            | 9811376288                                | K-108 A, First Floor, Above JD Saloon,<br>Thokar No. 5, Abul Fazal Enclave Part –I,<br>Jamia Nagar, Okhla, N. Delhi 25 | 9811376288 | starprojectsservices@gmail.com    |                                                              |
| 12 | Uralungal Labour Contract Co-operative Society | Prem Anand C        | Deputy Manager,<br>Learning & Development | Madappally College,<br>Vadakara, 673102<br>Kozhikode - 673102. Kerala, India                                           | 8921763984 | prem.anand@ulccs.com              |                                                              |
| 13 | AK Consulting                                  | Nirman Jain         | Technical Head                            | 6th Cross Rd, 1st Stage,<br>Kadugondanahalli,<br>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@aituniversity.com    |                                                              |
| 15 | Asirbadh Projects and Infrastructure Limited   | Kunwar Jee          | GM (Projects)                             | A.G. Office Road, Doanda, Ranchi-834002, Jharkhand.                                                                    | 7858801901 | ahplmd@yahoo.com                  |                                                              |
| 16 | Donge Project Management Consultants Pvt. Ltd. | Balkrishna Kulkarni | President                                 | 401, Imperial Heights, Akshar Chowk, OP Road, Vadodara                                                                 | 9819657656 | balkrishna.kulkarni@dongrepmc.com |                                                              |

|    |                                                       |                         |                                            |                                                                                        |            |                            |  |
|----|-------------------------------------------------------|-------------------------|--------------------------------------------|----------------------------------------------------------------------------------------|------------|----------------------------|--|
| 17 | Ephicacy Lifescience Analytics                        | Rahul Kumar Kaushik     | Sr. Manager                                | 2nd Main Rd, Sarvobhogam Nagar, Arekere, Bengaluru, Karnataka 560076                   | 8859885973 | rahul.Kaushik@ephicacy.com |  |
| 18 | Freelance Architect (Individual Consultant)           | Garvit Sharma           | Architect                                  | A-101 Radha Krishna Lane, Kaushambi, Ghaziabad, U.P                                    | 9971967901 | grsharma97@gmail.com       |  |
| 19 | Institute of Management Technology                    | Sandeep Sharma          | Chief Project Engineer & Senior Counsellor | Raj Nagar, Ghaziabad, UP, 201001                                                       | 9810566031 | sharma.sandyk@gmail.com    |  |
| 20 | Know How Schools                                      | Dipesh Bafna            | Partner                                    | Know How Schools LLP, C 601, Royal Casa, Ravet, Pune, 412101                           | 9405266123 | learn@knowhowschools.com   |  |
| 21 | L& T Skill Trainers Academy                           | DK Sharma               | Principal - CSTI                           | Larsen & Toubro Ltd. Near Custom House, Versova Creek Madh Jetty, Madh, Mumbai, 400061 | 7660986699 | deepaks@Intecc.com         |  |
| 22 | LK Engicons                                           | Sameer                  | Owner                                      | 114, Bhawanpur, Meerut, UP, 250001                                                     | 9808170639 | sales@lkengicons.com       |  |
| 23 | Manpower Group Services India                         | Durgesh Begariya        | Head Branch Operations                     | Unit-4 A/1 and A/2, 4th Floor, Plot No. 6, Uppal Plaza, Jasola, New Delhi              | 9824054165 | durgesh.b@manpower.co.in   |  |
| 24 | Senryaku Management Private Limited                   | Udit Kumar              | Consultant                                 | UTC031, DLF The Ultima, Sector 81, Gurugram, HR 122004                                 | 9690909024 | udit.kau@gmail.com         |  |
| 25 | Shrikant Gajanan Mhatre -Consulting Engineer & Valuer | Shrikant Gajanan Mhatre | Consulting Engineer & Valuer               | Reg. No. CCRDP / R / 2022 / APL/ 00305 Approved Valuer No. -LM / CAT - I/ F -          | 9689728209 | sshri1000@gmail.com        |  |

|    |                                       |               |                          |                                                                                                                        |            |                              |  |
|----|---------------------------------------|---------------|--------------------------|------------------------------------------------------------------------------------------------------------------------|------------|------------------------------|--|
|    |                                       |               |                          | 4860, C P No. -180. SHIV NIWAS / Sagar Society, Private High School Road I Pen -Raigad -Maharashtra - India . 402 107. |            |                              |  |
| 26 | Sunbright Manpower Solutions Pvt. Ltd | Arun Kumar    | Supervisor               | Shop No. 3144, Main Road, Narasapura, Kolar Taluk, Bangalore, Karnataka, 563133                                        | 7338463588 | bangalore@sunbrightgroup.com |  |
| 27 | ATS Homekraft                         | Bhumit Kamboj | General Manager, Program | ATS HomeKraft, 4th Floor, ATS Tower, Plot no-16, Sector-135, Noida-201305                                              | 9873951040 | bhumit.kamboj@homekraft.in   |  |

### Annexure: Training & Employment Details

#### Training and Employment Projections:

| Year    | Total Candidates     |                                    | Women                |                                    | People with Disability                     |                                            |
|---------|----------------------|------------------------------------|----------------------|------------------------------------|--------------------------------------------|--------------------------------------------|
|         | Estimated Training # | Estimated Employment Opportunities | Estimated Training # | Estimated Employment Opportunities | Estimated Training #                       | Estimated Employment Opportunities         |
| 2025-26 | 1,000                | 700                                | 200                  | 140                                | Subject to the requirement of the Industry | Subject to the requirement of the Industry |
| 2026-27 | 1,200                | 840                                | 240                  | 168                                | Subject to the requirement of the Industry | Subject to the requirement of the Industry |
| 2027-28 | 1,500                | 1,050                              | 300                  | 210                                | 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 | 60               | 0        | 0         | 0      | NA      | NA       | NA        | NA     | NA                     | NA       | NA        | NA     |
| V2.0                  | 2023-24 | 306              | 0        | 0         | 0      | NA      | NA       | NA        | NA     | NA                     | NA       | NA        | NA     |
| V2.0                  | 2024-25 | 308              | 220      | 211       | 211    | NA      | NA       | NA        | NA     | NA                     | NA       | NA        | NA     |

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

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

1. DDUGKY
2. PMKVY 2.0
3. PMKVY 4.0

**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 |
|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|---------------|------------|
| <b>Inspect the fabrication materials and conduct their surface cleaning</b> | <i>Inspect the materials required for fabrication work</i>                                                                                                                                                                                                           | <b>6</b>     | <b>14</b>       |               |            |
|                                                                             | PC1. read and interpret blueprints/ working drawings/shop drawings/ specification details related to the fabrication activities                                                                                                                                      |              |                 |               |            |
|                                                                             | PC2. identify different components/ sections like columns, I-beams, girders, trusses, channels, angles, plates, hollow section and other mild steel (MS) components/ accessories required in the steel fabrication work with respect to the specifications/ drawings |              |                 |               |            |
|                                                                             | PC3. locate the appropriate sections based on sizes, dimensions, and design in the warehouse/ storing yard for further processing which may involve grinding, welding, cutting, bending, drilling, punching, burning or melting                                      |              |                 |               |            |

|  |                                                                                                                                        |    |    |  |  |
|--|----------------------------------------------------------------------------------------------------------------------------------------|----|----|--|--|
|  | PC4. ensure that there are correct identity marks/heat number on the structural sections as per the organizational norms               |    |    |  |  |
|  | PC5. confirm that quality inspection has been conducted by the quality department for the required materials                           |    |    |  |  |
|  | PC6. ensure the fabrication material has no physical damage like distortion, bending, cracks etc.                                      |    |    |  |  |
|  | PC7. ensure that the materials are loaded, shifted and unloaded to the fabrication yard/ workshop safely, following standard practices |    |    |  |  |
|  | <i>Conduct surface cleaning of the sections for fabricating steel structures</i>                                                       | 24 | 26 |  |  |
|  | PC8. inspect the surface of the materials/ sections to determine the types of impurities on it                                         |    |    |  |  |
|  | PC9. obtain approval for employing different methods of surface cleaning from the concerned authority                                  |    |    |  |  |
|  | PC10. estimate the quantities of the materials required for the surface cleaning purpose                                               |    |    |  |  |
|  |                                                                                                                                        |    |    |  |  |
|  |                                                                                                                                        |    |    |  |  |

|                  |                                                                                                                                                                             |           |           |  |  |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|--|--|
|                  | PC11. initiate indent procedures for the required cleaning materials as per the organizational norms                                                                        |           |           |  |  |
|                  | PC12. ensure appropriate surface cleaning procedures like heating, chemical cleaning, scrubbing, water jet, abrasion etc. are adopted as per the requirements/ instructions |           |           |  |  |
|                  | PC13. confirm the compliance of prepared clean surface with technical details or instructions                                                                               |           |           |  |  |
| <b>NOS Total</b> |                                                                                                                                                                             | <b>30</b> | <b>70</b> |  |  |

| NOS/Module Name                                                                                  | Assessment Criteria for Outcomes                                                                      | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------|-----------------|---------------|------------|
| <b>Conduct joint preparation, connection activities and repair work in fabricated assemblies</b> | <i>Conduct edge/ joint preparation and connection activities using welding and bolting methods</i>    | <b>18</b>    | <b>42</b>       |               |            |
|                                                                                                  | PC1. identify the components/sections of the assemblies as per drawings or instructions               |              |                 |               |            |
|                                                                                                  | PC2. estimate the consumables, tools, equipment and manpower required for the edge/ joint preparation |              |                 |               |            |
|                                                                                                  | PC3. inspect instruments, consumables, tools and equipment                                            |              |                 |               |            |

|  |                                                                                                                                                                             |  |  |  |  |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  | visually for their working conditions                                                                                                                                       |  |  |  |  |
|  | PC4. customize suitable jigs and fixtures according to workpiece and clamp it to the bed of the platform for the smooth execution of work                                   |  |  |  |  |
|  | PC5. perform calculations for computation of dimensions from drawings if required                                                                                           |  |  |  |  |
|  | PC6. measure and mark bending/cutting lines, drilling points etc. on the work piece/ sections within tolerance limits as per provided technical details/standard procedures |  |  |  |  |
|  | PC7. conduct necessary operations such as bending, cutting, drilling etc. in order to ensure precise orientation, alignments and fittings of the work piece/ section        |  |  |  |  |
|  | PC8. conduct edge-preparation for the work piece/ section using Punch and Nibble method, Peeling and Shearing Method or Milling and Routing Method as per requirement       |  |  |  |  |
|  | PC9. ensure that allowance for thickness, shrinkage and root gaps are maintained for the joints as per the standard practice and specifications                             |  |  |  |  |
|  | PC10. conduct connections of joints by                                                                                                                                      |  |  |  |  |

|  |                                                                                                                                                     |    |    |  |  |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------|----|----|--|--|
|  | weld/ bolt connection methods as per the specifications and drawings                                                                                |    |    |  |  |
|  | PC11. ensure that joints/ connections of the different components of assemblies comply with the specifications and drawings                         |    |    |  |  |
|  | PC12. ensure joints are free of irregularities or impurities before further operations                                                              |    |    |  |  |
|  | PC13. arrange for inspection of the fabricated assemblies by superiors                                                                              |    |    |  |  |
|  | <i>Conduct repair of fabricated components/ assemblies</i>                                                                                          | 12 | 28 |  |  |
|  | PC14. inspect the component/ assemblies for distortions/ errors in dimensions or other defects                                                      |    |    |  |  |
|  | PC15. identify the most suitable method for correcting the defects                                                                                  |    |    |  |  |
|  | PC16. estimate roughly the quantity and type of manpower, materials, consumables, tools, equipment and time required for completing the repair work |    |    |  |  |
|  | PC17. obtain approval from superiors for carrying out repairs with estimated resources                                                              |    |    |  |  |
|  |                                                                                                                                                     |    |    |  |  |
|  |                                                                                                                                                     |    |    |  |  |

|                  |                                                                                                               |           |           |  |  |
|------------------|---------------------------------------------------------------------------------------------------------------|-----------|-----------|--|--|
|                  | PC18. conduct the operations like grinding, welding, heating, jacking etc. as per the repair work requirement |           |           |  |  |
|                  | PC19. recheck the repaired work prior to submitting the same for quality inspections                          |           |           |  |  |
|                  | PC20. ensure that the tools and equipment are correctly used, maintained and stored                           |           |           |  |  |
| <b>NOS Total</b> |                                                                                                               | <b>30</b> | <b>70</b> |  |  |

| NOS/Module Name                                                | Assessment Criteria for Outcomes                                                                                           | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|---------------|------------|
| <b>Erect structural steel assemblies at construction sites</b> | <i>Prepare for the erection of structural steel assemblies</i>                                                             | <b>6</b>     | <b>14</b>       |               |            |
|                                                                | PC1. ensure that proper access to the erection site is available to both erection team and load lifting equipment/ machine |              |                 |               |            |
|                                                                | PC2. ensure that survey marks and reference points are available for the erection work                                     |              |                 |               |            |
|                                                                | PC3. carry out necessary measurement and marking to ascertain the exact location of erection                               |              |                 |               |            |

|  |                                                                                                                                                                                                                                |    |    |  |  |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|--|--|
|  | PC4. ensure the availability of base plates or other level correction provisions are provided at the base of erection as per requirement                                                                                       |    |    |  |  |
|  | PC5. check the availability of provisions for bolting, welding, post-tensioning connections as per the drawing                                                                                                                 |    |    |  |  |
|  | PC6. ensure designed bearing area in the platform or support is available for efficient erection of the components                                                                                                             |    |    |  |  |
|  | PC7. check for hazardous situations at erection site, such as the presence of live electrical cables, absence of proper barricading, excessive wind speed and report it to the concerned authority promptly as per requirement |    |    |  |  |
|  | PC8. check availability of all materials and support equipment (identified by the seniors and required to proceed with the work) and report any shortages                                                                      |    |    |  |  |
|  | <i>Erect structural steel assemblies as per drawing</i>                                                                                                                                                                        | 24 | 56 |  |  |
|  | PC9. install shoring, bracing and guying materials as directed by the foreman/ supervisor or specified by erection drawings and details considering local conditions                                                           |    |    |  |  |

|  |                                                                                                                                                                                          |  |  |  |  |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  | PC10. pull, push and hold suspended structural steel assemblies/ components approximately to their exact location by hand or suitable means during lowering of load                      |  |  |  |  |
|  | PC11. communicate efficiently to the signalman or operator for precise movements required to place the object/ assemblies at accurate location                                           |  |  |  |  |
|  | PC12. ensure units are guided to their appropriate locations                                                                                                                             |  |  |  |  |
|  | PC13. place the steel assemblies/ components to its accurate location efficiently and make required adjustments as per erection requirement                                              |  |  |  |  |
|  | PC14. ensure proper orientation and alignment of the erected steel assembly/ component by carrying out required measurement and checks using appropriate measuring tools and instruments |  |  |  |  |
|  | PC15. check installation of temporary connections using appropriate tools prior to final positioning of precast units/ steel assemblies for their stability                              |  |  |  |  |
|  | PC16. bolt connections to the specified                                                                                                                                                  |  |  |  |  |

|                  |                                                                                                           |           |           |  |  |
|------------------|-----------------------------------------------------------------------------------------------------------|-----------|-----------|--|--|
|                  | tolerance and torque using appropriate torque wrench wherever required                                    |           |           |  |  |
|                  | PC17. check bolt tightness in case of units having slotted connections                                    |           |           |  |  |
|                  | PC18. install special steel washers to ensure that the specified tension has been developed in the bolt   |           |           |  |  |
|                  | PC19. check location of shims, bearing pads for their proper positioning                                  |           |           |  |  |
|                  | PC20. install expansion bolts using prescribed installation procedures and quality control specifications |           |           |  |  |
| <b>NOS Total</b> |                                                                                                           | <b>30</b> | <b>70</b> |  |  |

| NOS/Module Name                                                                                 | Assessment Criteria for Outcomes                                                                    | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------|-----------------|---------------|------------|
| <b>Work according to personal health, safety and environment protocols at construction site</b> | <i>Follow safety norms as defined by the organization</i>                                           | <b>6</b>     | <b>14</b>       |               |            |
|                                                                                                 | 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     |              |                 |               |            |

|  |                                                                                                                                                                                                                                                         |    |    |  |  |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|--|--|
|  | 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                                                                                                                                                                                                |    |    |  |  |
|  | <i>Adopt healthy &amp; safe work practices</i>                                                                                                                                                                                                          |    |    |  |  |
|  | 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                                                                                                                                                                                 |    |    |  |  |

|  |                                                                                                                                 |   |    |  |  |
|--|---------------------------------------------------------------------------------------------------------------------------------|---|----|--|--|
|  | PC9. follow safe disposal of waste, harmful and hazardous materials as per EHS guidelines                                       | 6 | 14 |  |  |
|  | 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                                                                     |   |    |  |  |
|  | <i>Implement good housekeeping practices</i>                                                                                    | 3 | 7  |  |  |
|  | PC13. collect, segregate and deposit construction waste into appropriate containers based on their toxicity or hazardous nature |   |    |  |  |
|  | PC14. apply ergonomic principles wherever required                                                                              |   |    |  |  |
|  | <i>Follow infection control guidelines as per applicability</i>                                                                 | 3 | 7  |  |  |
|  | PC15. follow recommended personal hygiene, workplace hygiene and sanitization practices                                         |   |    |  |  |
|  | PC16. clean and disinfect all materials, tools and supplies before and after use                                                |   |    |  |  |

|                  |                                                                                                              |           |           |  |  |
|------------------|--------------------------------------------------------------------------------------------------------------|-----------|-----------|--|--|
|                  | PC17. report immediately to concerned authorities regarding signs and symptoms of illness of self and others |           |           |  |  |
| <b>NOS Total</b> |                                                                                                              | <b>30</b> | <b>70</b> |  |  |

| NOS/Module Name                                                               | Assessment Criteria for Outcomes                                               | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------|-----------------|---------------|------------|
| <b>Work effectively in a team to deliver desired results at the workplace</b> | <i>Interact and communicate in an effective manner</i>                         | <b>18</b>    | <b>42</b>       |               |            |
|                                                                               | PC1. pass on work related information/ requirement clearly to the team members |              |                 |               |            |
|                                                                               | PC2. inform co-workers and superiors about any kind of deviations from work    |              |                 |               |            |
|                                                                               | PC3. report any unresolved problem to the supervisor immediately               |              |                 |               |            |
|                                                                               | PC4. obtain instructions from superiors and respond on the same                |              |                 |               |            |
|                                                                               | PC5. communicate to team members/subordinates for                              |              |                 |               |            |

|                  |                                                                                                             |           |           |  |  |
|------------------|-------------------------------------------------------------------------------------------------------------|-----------|-----------|--|--|
|                  | appropriate work technique and method                                                                       |           |           |  |  |
|                  | PC6. seek clarification and advice as per the requirement                                                   |           |           |  |  |
|                  | <i>Support co-workers to execute the project requirements</i>                                               |           |           |  |  |
|                  | PC7. hand over the required material, tools, tackles, equipment and work fronts timely to interfacing teams | 6         | 14        |  |  |
|                  | PC8. work together with co-workers in a synchronized manner                                                 |           |           |  |  |
|                  | <i>Practice inclusion</i>                                                                                   |           |           |  |  |
|                  | PC9. maintain cultural inclusivity at workplace                                                             |           |           |  |  |
|                  | PC10. maintain disability friendly work practices                                                           |           |           |  |  |
|                  | PC11. follow gender neutral practices at workplace                                                          | 6         | 14        |  |  |
|                  | PC12. address discriminatory and offensive behaviour in a professional manner as per organizational policy  |           |           |  |  |
| <b>NOS Total</b> |                                                                                                             | <b>30</b> | <b>70</b> |  |  |

| NOS/Module Name                                  | Assessment Criteria for Outcomes                                                                                                                                   | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|---------------|------------|
| Plan and organize work to meet expected outcomes | <i>Plan and prepare for work</i>                                                                                                                                   | 9            | 21              |               |            |
|                                                  | PC1. identify the targets and timelines set by superiors                                                                                                           |              |                 |               |            |
|                                                  | PC2. determine the work requirements corresponding to task(drawings/schedules/instructions/methodology), safety, tools and equipment prior to commencement of task |              |                 |               |            |
|                                                  | PC3. plan the work by analyzing the required outcomes, work procedures, allotted time, resource availability and known priorities                                  |              |                 |               |            |
|                                                  | PC4. prepare the work areas in coordination with team members                                                                                                      |              |                 |               |            |
|                                                  | PC5. plan for waste collection and disposal prior to and after completion of work                                                                                  |              |                 |               |            |

|  |                                                                                                   |    |    |  |  |
|--|---------------------------------------------------------------------------------------------------|----|----|--|--|
|  | <i>Organise required resources as per work plan</i>                                               | 6  | 14 |  |  |
|  | PC6. arrange the required manpower prior to commencement of work                                  |    |    |  |  |
|  | PC7. organize the required materials, tools and tackles required for the task                     |    |    |  |  |
|  | <i>Complete work as per the plan</i>                                                              | 15 | 35 |  |  |
|  | PC8. engage allocated manpower in an appropriate manner                                           |    |    |  |  |
|  | PC9. employ correct tools, tackles and equipment for the desired work                             |    |    |  |  |
|  | PC10. provide guidance to the subordinates to obtain desired outcome                              |    |    |  |  |
|  | PC11. use resources in an optimum manner to avoid any unnecessary wastage                         |    |    |  |  |
|  | PC12. use tools, tackles and equipment carefully to avoid damage                                  |    |    |  |  |
|  | PC13. ensure the work processes adopted are in line with the specified standards and instructions |    |    |  |  |
|  | PC14. complete the work with the allocated resources within specified time                        |    |    |  |  |
|  |                                                                                                   |    |    |  |  |
|  |                                                                                                   |    |    |  |  |
|  |                                                                                                   |    |    |  |  |
|  |                                                                                                   |    |    |  |  |
|  |                                                                                                   |    |    |  |  |

|                  |                                                                 |           |           |  |  |
|------------------|-----------------------------------------------------------------|-----------|-----------|--|--|
|                  | PC15. clean and organise the workplace after completion of task |           |           |  |  |
| <b>NOS Total</b> |                                                                 | <b>30</b> | <b>70</b> |  |  |

| NOS/Module Name                        | Assessment Criteria for Outcomes                                                                                                                                                                                                                         | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|---------------|------------|
| <b>Employability Skills (30 Hours)</b> | <i>Introduction to Employability Skills</i>                                                                                                                                                                                                              |              |                 |               |            |
|                                        | PC1. understand the significance of employability skills in meeting the job requirements                                                                                                                                                                 | <b>1</b>     | <b>1</b>        |               |            |
|                                        | <i>Constitutional values – Citizenship</i>                                                                                                                                                                                                               |              |                 |               |            |
|                                        | PC2. identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices                                                                                                                          | <b>1</b>     | <b>1</b>        |               |            |
|                                        | <i>Becoming a Professional in the 21st Century</i>                                                                                                                                                                                                       |              |                 |               |            |
|                                        | 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. | <b>1</b>     | <b>3</b>        |               |            |
|                                        | <i>Basic English Skills</i>                                                                                                                                                                                                                              | <b>2</b>     | <b>3</b>        |               |            |

|  |                                                                                            |   |   |  |  |
|--|--------------------------------------------------------------------------------------------|---|---|--|--|
|  | PC4. speak with others using some basic English phrases or sentences                       |   |   |  |  |
|  | <i>Communication Skills</i>                                                                |   |   |  |  |
|  | PC5. follow good manners while communicating with others                                   | 1 | 1 |  |  |
|  | PC6. work with others in a team                                                            |   |   |  |  |
|  | <i>Diversity &amp; Inclusion</i>                                                           |   |   |  |  |
|  | PC7. communicate and behave appropriately with all genders and PwD                         | 1 | 1 |  |  |
|  | PC8. report any issues related to sexual harassment                                        |   |   |  |  |
|  | <i>Financial and Legal Literacy</i>                                                        |   |   |  |  |
|  | PC9. use various financial products and services safely and securely                       |   |   |  |  |
|  | PC10. calculate income, expenses, savings etc.                                             | 3 | 4 |  |  |
|  | PC11. approach the concerned authorities for any exploitation as per legal rights and laws |   |   |  |  |
|  | <i>Essential Digital Skills</i>                                                            |   |   |  |  |
|  | PC12. operate digital devices and use its features and applications securely and safely    | 4 | 6 |  |  |
|  | PC13. use internet and social media platforms securely and safely                          |   |   |  |  |

|  |                                                                                          |           |           |          |          |
|--|------------------------------------------------------------------------------------------|-----------|-----------|----------|----------|
|  | <i>Entrepreneurship</i>                                                                  | <b>3</b>  | <b>5</b>  |          |          |
|  | PC14. identify and assess opportunities for potential business                           |           |           |          |          |
|  | PC15. identify sources for arranging money and associated financial and legal challenges |           |           |          |          |
|  | <i>Customer Service</i>                                                                  | <b>2</b>  | <b>2</b>  |          |          |
|  | PC16. identify different types of customers                                              |           |           |          |          |
|  | PC17. identify customer needs and address them appropriately                             |           |           |          |          |
|  | PC18. follow appropriate hygiene and grooming standards                                  | <b>1</b>  | <b>3</b>  |          |          |
|  | <i>Getting ready for apprenticeship &amp; Jobs</i>                                       |           |           |          |          |
|  | PC19. create a basic biodata                                                             |           |           |          |          |
|  | PC20. search for suitable jobs and apply                                                 |           |           |          |          |
|  | PC21. identify and register apprenticeship opportunities as per requirement              |           |           |          |          |
|  | <b>NOS Total</b>                                                                         | <b>20</b> | <b>30</b> | <b>-</b> | <b>-</b> |

## 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 **Fabricator** 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 **Fabricator** 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 learning 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                             |
| CSDCI   | Constriction Skill Development Council of India                    |
| SIDH    | Skill India Digital Hub                                            |
| 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                                                     |

|                |                                                 |
|----------------|-------------------------------------------------|
| <b>MCQ</b>     | Multiple Choice Question                        |
| <b>EHS</b>     | Environment Health and Safety                   |
| <b>PPE</b>     | Personal Protective Equipment                   |
| <b>QA/QC</b>   | Quality Assurance / Quality Control             |
| <b>IS Code</b> | Indian Standards Code                           |
| <b>PMI</b>     | Positive Material Identification                |
| <b>MCB</b>     | Miniature Circuit Breaker                       |
| <b>WPS</b>     | Welding Procedure Specification                 |
| <b>PQR</b>     | Procedure Qualification Record                  |
| <b>MIG</b>     | Metal Inert Gas Welding                         |
| <b>TIG</b>     | Tungsten Inert Gas Welding                      |
| <b>SMAW</b>    | Shielded Metal Arc Welding (Manual Arc Welding) |
| <b>GMAW</b>    | Gas Metal Arc Welding (MIG Welding)             |
| <b>GTAW</b>    | Gas Tungsten Arc Welding                        |
| <b>FCAW</b>    | Flux Cored Arc Welding                          |
| <b>SAW</b>     | Submerged Arc Welding                           |
| <b>PAW</b>     | Plasma Arc Welding                              |
| <b>LBW</b>     | Laser Beam Welding                              |
| <b>EBW</b>     | Electron Beam Welding                           |
| <b>ESW</b>     | Electro Slag Welding                            |
| <b>UT</b>      | Ultrasonic Testing (NDT Method)                 |
| <b>RT</b>      | Radiographic Testing (X-ray Inspection)         |
| <b>PT</b>      | Penetrant Testing (Dye Penetrant Test)          |
| <b>MPT</b>     | Magnetic Particle Testing                       |
| <b>VT</b>      | Visual Testing                                  |
| <b>FAB</b>     | Fabrication                                     |
| <b>HSS</b>     | Hollow Structural Section                       |
| <b>CJP</b>     | Complete Joint Penetration                      |
| <b>PJP</b>     | Partial Joint Penetration                       |
| <b>HFW</b>     | High-Frequency Welding                          |
| <b>ISMC</b>    | Indian Standard Medium Channel                  |
| <b>ISMB</b>    | Indian Standard Medium Beam                     |
| <b>ISWB</b>    | Indian Standard Wide Flange Beam                |

### Glossary

| Term                                         | Description                                                                                                                                                                                                                            |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>National Occupational Standards (NOS)</b> | 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.                                              |
| <b>Qualification</b>                         | 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                                                       |
| <b>Qualification File</b>                    | 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. |
| <b>Sector</b>                                | A grouping of professional activities on the basis of their main economic function, product, service or technology.                                                                                                                    |
| <b>Long Term Training</b>                    | Long-term skilling means any vocational training program undertaken for a year and above.<br><a href="https://ncvet.gov.in/sites/default/files/NCVET.pdf">https://ncvet.gov.in/sites/default/files/NCVET.pdf</a>                       |

### Annexure: Career Progression

