



## QUALIFICATION FILE

### Joiner (WorldSkills)

- 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: 4.5

Submitted By:

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Section 1: Basic Details

| 1.                      | <b>Qualification Name</b>  | Joiner (WorldSkills)   |   |                         |               |                         |                |                   |                       |                         |               |                     |     |     |   |   |     |        |   |   |   |   |   |
|-------------------------|--|--|---|-------------------------|---------------|-------------------------|----------------|-------------------|-----------------------|-------------------------|---------------|---------------------|-----|-----|---|---|-----|--------|---|---|---|---|---|
| 2.                      | <b>Sector/s</b>  | Wood and Carpentry   |   |                         |               |                         |                |                   |                       |                         |               |                     |     |     |   |   |     |        |   |   |   |   |   |
| 3.                      | <b>Type of Qualification:</b><br><input checked="" type="checkbox"/> New<br><input type="checkbox"/> Revised<br><input type="checkbox"/> Has Electives/Options<br><input type="checkbox"/> OEM | <b>NQR Code &amp; version of existing qualification:</b> NA  | <b>Qualification Name of existing version:</b> NA   |                         |               |                         |                |                   |                       |                         |               |                     |     |     |   |   |     |        |   |   |   |   |   |
| 4.                      | <b>National Qualification Register (NQR) Code &amp;Version</b>   | QG-4.5-WC-01790-2024-V1-FFSC   | <b>5. NCrF/NSQF Level:</b> 4.5                      |                         |               |                         |                |                   |                       |                         |               |                     |     |     |   |   |     |        |   |   |   |   |   |
| 6.                      | <b>Award (Certificate/ Diploma/ Advance Diploma/ Any Other)</b>  | Certificate  |   |                         |               |                         |                |                   |                       |                         |               |                     |     |     |   |   |     |        |   |   |   |   |   |
| 7.                      | <b>Brief Description of the Qualification</b>  | The WorldSkills-Certified Joiner conducts thorough site surveys, interprets complex blueprints, and prepares worksites with precision. They showcase unmatched craftsmanship through precise measuring, cutting, shaping, and assembly of wood and substitutes, utilizing diverse hand tools and machines to achieve excellence. A joiner showcases precision, attention to detail, and a commitment to preparing joinery with standards within the WorldSkills competition criteria.  |   |                         |               |                         |                |                   |                       |                         |               |                     |     |     |   |   |     |        |   |   |   |   |   |
| 8.                      | <b>Eligibility Criteria for Entry for Student/ Trainee/ Learner/ Employee</b>  | <p><b>a. Entry Qualification &amp; Relevant Experience</b></p> <p>As per the WorldSkills and IndiaSkills eligibility criteria.</p> <p><b>b. Age:</b> 22 years (maximum)- At the time of competition</p>  |   |                         |               |                         |                |                   |                       |                         |               |                     |     |     |   |   |     |        |   |   |   |   |   |
| 9.                      | <b>Credits Assigned to this Qualification, Subject to Assessment</b>   | 17   | <b>10. Common Cost Norm Category (I/II/III):</b> II |                         |               |                         |                |                   |                       |                         |               |                     |     |     |   |   |     |        |   |   |   |   |   |
| 11.                     | <b>Any Licensing requirements for Undertaking Training on This Qualification</b>   | Not Applicable   |   |                         |               |                         |                |                   |                       |                         |               |                     |     |     |   |   |     |        |   |   |   |   |   |
| 12.                     | <b>Training Duration by Modes of Training Delivery</b>   | <input checked="" type="checkbox"/> Offline <input type="checkbox"/> Online <input type="checkbox"/> Blended <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: center;">Training Delivery Modes</th> <th style="text-align: center;">Theory (Hours)</th> <th style="text-align: center;">Practical (Hours)</th> <th style="text-align: center;">OJT Mandatory (Hours)</th> <th style="text-align: center;">OJT Recommended (Hours)</th> <th style="text-align: center;">Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td style="text-align: center;">158</td> <td style="text-align: center;">352</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">510</td> </tr> <tr> <td>Online</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </tbody> </table> |   |                         |               | Training Delivery Modes | Theory (Hours) | Practical (Hours) | OJT Mandatory (Hours) | OJT Recommended (Hours) | Total (Hours) | Classroom (offline) | 158 | 352 | 0 | 0 | 510 | Online | 0 | 0 | 0 | 0 | 0 |
| Training Delivery Modes | Theory (Hours)   | Practical (Hours)  | OJT Mandatory (Hours)                               | OJT Recommended (Hours) | Total (Hours) |                         |                |                   |                       |                         |               |                     |     |     |   |   |     |        |   |   |   |   |   |
| Classroom (offline)     | 158  | 352  | 0   | 0                       | 510           |                         |                |                   |                       |                         |               |                     |     |     |   |   |     |        |   |   |   |   |   |
| Online                  | 0  | 0  | 0   | 0                       | 0             |                         |                |                   |                       |                         |               |                     |     |     |   |   |     |        |   |   |   |   |   |

|     |   |   |   |
|-----|---|---|---|
| 13. | <b>Aligned to NCO/ISCO Code/s</b>   | NCO-2015/7115.0500  |   |
| 14. | <b>Progression path after attaining the qualification</b>   | <b>Professional Progression (Vertical):</b><br>Master Joiner, Supervisor- Furniture Wood Workshop   |   |
| 15. | <b>Other Indian languages in which the Qualification &amp; Model Curriculum are being submitted</b> | Hindi   |   |
| 16. | <b>Is similar Qualification(s) available on NQR-if yes, justification for this qualification</b>    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><br><b>URLs of similar Qualifications:</b>   |   |
| 17. | <b>Is the Job Role Amenable to Persons with Disability</b>  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><br><b>If "Yes", specify applicable type of Disability:</b>                          |   |
| 18. | <b>Are Greening/ Environment Sustainability Aspects Covered</b>                                     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   |   |
| 19. | <b>Is Qualification Suitable to be Offered in Schools/Colleges</b>                                  | Schools <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    Colleges <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |   |
| 20. | <b>Name and Contact Details of Submitting / Awarding Body SPOC</b>                                  | <b>Name:</b> Mr. Rahul Mehta<br><b>Email:</b> ceo@ffsc.in<br><b>Contact No.:</b> +91 124 4513900<br><b>Website:</b> ffsc.in                                 |   |
| 21. | <b>Final Approval Date by NSQC:</b><br>06-02-2024   | <b>22. Validity Duration:</b> 2 years   | <b>23. Next Review Date:</b> 06-02-2026 |

## 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 curriculum document.

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

| S. No | NOS/ Module Name   | NOS/ Module Code & Version           | Core/ Non-Core | NCrF/ NSQF Level | Credit as per NCrF | Training Duration (Hours) |     |          |          |       | Assessment Marks |     |       |      |       |           |
|-------|--|--------------------------------------|----------------|------------------|--------------------|---------------------------|-----|----------|----------|-------|------------------|-----|-------|------|-------|-----------|
|       |  |                                      |                |                  |                    | Th.                       | Pr. | OJT-Man. | OJT-Rec. | Total | Th.              | Pr. | Proj. | Viva | Total | Weig. (%) |
| 1     | Bridge Module  | Version No. 1                        | Core           | 4.5              | 1                  | 30                        | 0   | 0        | 0        | 30    | NA               | NA  | NA    | NA   | NA    | NA        |
| 2     | Perform site recce and prepare the product drawings                                  | NOS Code: FFS/N0914<br>Version No. 1 | Core           | 4.5              | 3                  | 24                        | 66  | 0        | 0        | 90    | 22               | 52  | 18    | 08   | 100   | 15        |
| 3     | Select and prepare the materials into required specifications and dimensions         | NOS Code: FFS/N0915<br>Version No. 1 | Core           | 4.5              | 4                  | 28                        | 92  | 0        | 0        | 120   | 18               | 52  | 24    | 06   | 100   | 25        |
| 4     | Prepare the components with internal and external joints to perform product assembly | NOS Code: FFS/N0916<br>Version No. 1 | Core           | 4.5              | 4                  | 28                        | 92  | 0        | 0        | 120   | 12               | 60  | 24    | 04   | 100   | 25        |
| 5     | Perform the product finishing and installation based on design specifications        | NOS Code: FFS/N0917<br>Version No. 1 | Core           | 4.5              | 3                  | 24                        | 66  | 0        | 0        | 90    | 12               | 54  | 28    | 06   | 100   | 15        |
| 6     | Execute joinery work with safety and adherence to workplace management standards     | NOS Code: FFS/N8211<br>Version No. 1 | Non-Core       | 4.5              | 1                  | 12                        | 18  | 0        | 0        | 30    | 18               | 54  | 24    | 04   | 100   | 10        |

|  |  |                                      |          |     |           |            |            |          |          |            |            |            |            |           |            |            |
|--|--|--------------------------------------|----------|-----|-----------|------------|------------|----------|----------|------------|------------|------------|------------|-----------|------------|------------|
| 7  | Display effective communication and professional skills at workplace | NOS Code: FFS/N8212<br>Version No. 1 | Non-Core | 4.5 | 1         | 12         | 18         | 0        | 0        | 30         | 20         | 60         | 20         | 0         | 100        | 10         |
| <b>Duration (in Hours) / Total Marks</b> |  |                                      |          |     | <b>17</b> | <b>158</b> | <b>352</b> | <b>0</b> | <b>0</b> | <b>510</b> | <b>102</b> | <b>332</b> | <b>138</b> | <b>28</b> | <b>600</b> | <b>100</b> |

#### 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: 70%** (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. | <b>Trainer's Qualification and experience in the relevant sector (in years)</b>        | <p><b>A trainer should be eligible in any of below mentioned categories:</b></p> <ol style="list-style-type: none"> <li>1. Have a formal and/or recognized certification with proven industrial and/or practical experience in the relevant skill (minimum 10 years).</li> <li>2. To facilitate smooth implementation of WorldSkills/IndiaSkills competition and to avoid any disruption, for the year 2024, following additional categories of trainers shall also be eligible to conduct training of WorldSkills/IndiaSkills qualifications: <ol style="list-style-type: none"> <li>a. Have worked as a Jury member/expert in skill competitions and other competitions of similar nature at regional/national levels</li> <li>OR</li> <li>b. Trained/mentored competitors for IndiaSkills/ WorldSkills competitions (national/ international).</li> </ol> </li> </ol> <p><b>NOTE:</b> If a Trainer is affiliated with an organization, it is imperative to secure the endorsement of their employer, institution, or organization, including their commitment to support WorldSkills India in upcoming competitions.</p> |
| 2. | <b>Master Trainer's Qualification and experience in the relevant sector (in years)</b> | Graduate (In any field) with minimum 5 years of relevant experience   |
| 3. | <b>Tools and Equipment Required for Training</b>                                       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><br>The list is same as used for classroom-based training  |

|    |   |   |
|----|---|---|
| 4. | <b>In Case of Revised Qualification, Details of Any Upskilling Required for Trainer</b> | The candidates can enroll into a 3-day workshop to upskill themselves based on the new components of the revised qualification and get the desired certifications done. |
|----|---|---|

## Section 4: Assessment Related

|    |   |  |
|----|---|--|
| 1. | <b>Assessor's Qualification and experience in relevant sector (in years)</b>                | <p><b>An assessor should be eligible in any of below mentioned categories:</b></p> <ol style="list-style-type: none"> <li>1. Have a formal and/or recognized certification with proven industrial and/or practical experience in the relevant skill (minimum 10 years).</li> <li>2. To facilitate smooth implementation of WorldSkills/IndiaSkills competition and to avoid any disruption, for the year 2024, following additional categories of assessors shall also be eligible to conduct of assessment of WorldSkills/IndiaSkills qualifications:             <ol style="list-style-type: none"> <li>a. Have worked as a Jury member/expert in skill competitions and other competitions of similar nature at regional/national levels<br/>OR</li> <li>b. Trained/mentored competitors for IndiaSkills/ WorldSkills competitions (national/ international).</li> </ol> </li> </ol> <p><b>NOTE:</b> If an Assessor is affiliated with an organization, it is imperative to secure the endorsement of their employer, institution, or organization, including their commitment to support WorldSkills India in upcoming competitions.</p> |
| 2. | <b>Proctor's Qualification and experience in relevant sector (in years)</b>                 | Graduate (In any field) with minimum 3 years of relevant experience  |
| 3. | <b>Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years)</b> | Graduate (In any field) with minimum 5 years of relevant experience  |
| 4. | <b>Assessment Mode</b>  | Offline Mode   |
| 5. | <b>Tools and Equipment Required for Assessment</b>  | <input checked="" type="checkbox"/> Same as for training <input type="checkbox"/> Yes <input type="checkbox"/> No  |

## Section 5: Annexure &amp; Supporting Documents Check List

|    |   |  |
|----|---|--|
| 1. | <b>Annexure:</b> List of tools and equipment relevant for qualification | Refer to Annexure 1  |
| 2. | <b>Annexure:</b> Detailed Assessment Criteria                           | Refer to Annexure 2  |
| 3. | <b>Annexure:</b> Assessment Strategy                                    | Refer to Annexure 3  |
| 4. | <b>Annexure:</b> Acronym and Glossary                                   | Refer to Annexure 4  |
| 5. | <b>Supporting Document:</b> Model Curriculum                            | Attached as a separate document in the Qualification Approval Docket |



## Annexure 1: Tools and Equipment (Lab Set-Up)

## List of Tools and Equipment

**Batch Size:** 20 candidates

| S. No. | Tool/Equipment                 | Specifications   | Quantity for specified Batch size |
|--------|--------------------------------|--|-----------------------------------|
| 1      | Router Table                   | Type: Woodworking Router Table<br>Features: Adjustable fence, multiple T-slots, dust collection port | 2                                 |
| 2      | Hand-held Routers              | Type: Variable-speed, suitable for different routing tasks   | 20                                |
| 3      | Drawing Instruments            | Types: Compass, Protractor, T-square, Drawing Board<br>Material: Durable and precise                 | 20                                |
| 4      | Awls                           | Type: Woodworking Awls<br>Material: Hardwood or Metal Handle, Sharp Point                            | 20                                |
| 5      | Planes                         | Types: Bench Planes, Block Planes<br>Blade Type: Adjustable and replaceable                          | 20                                |
| 6      | Chisels                        | Types: Beveled Edge Chisels<br>Blade Material: High-carbon steel, various sizes                      | 20                                |
| 7      | Shaping Tools                  | Types: Rasps, Files, Surform Tools<br>Material: High-carbon steel, ergonomic handles                 | 20                                |
| 8      | Rebate Plane                   | Type: Woodworking Rebate Plane<br>Features: Adjustable depth, guided cutting edge                    | 20                                |
| 9      | Plough Plane                   | Type: Woodworking Plough Plane<br>Features: Adjustable depth, cutting width, fence                   | 20                                |
| 10     | Gauges                         | Types: Marking Gauges, Mortise Gauges<br>Material: Wood or Metal, precise adjustments                | 20                                |
| 11     | Squares                        | Types: Try Squares, Combination Squares<br>Material: Steel or Aluminum                               | 20                                |
| 12     | Mallet                         | Type: Woodworking Mallet<br>Material: Wood or Rubber<br>Weight: Balanced for chisel work             | 20                                |
| 13     | Drill and Bits                 | Type: Hand Drill, Various Drill Bits<br>Chuck Size: Compatible with various bit sizes                | 20                                |
| 14     | Hammer                         | Types: Claw Hammer, Rubber Mallet<br>Material: Wood or Metal Handle                                  | 20                                |
| 15     | Screwdrivers                   | Types: Flathead, Phillips, Various Sizes<br>Material: Durable handles, magnetic tips                 | 20                                |
| 16     | Hand Tool Sharpening Equipment | Types: Honing Guides, Sharpening Stones, Stropps<br>Grits: Varied for coarse to fine sharpening      | 20                                |

|    |                |   |    |
|----|----------------|---|----|
| 17 | Trammel Points | Type: Adjustable Trammel Points<br>Material: Durable metal construction                           | 20 |
| 18 | Portable Vice  | Type: Clamp-on or Bench-Top Vice<br>Jaw Width: Suitable for various workpieces                    | 20 |
| 19 | Clamps         | Types: Bar Clamps, C-Clamps, Spring Clamps<br>Size: Variable, suitable for different applications | 20 |

**Classroom Aids**

The aids required to conduct sessions in the classroom are:

1. White Board
2. Board Marker
3. Duster
4. Projector/ Smart TV
5. Laptop
6. Chairs/ Stools (For theory lectures)
7. Storage Cabinet (Wardrobe)

## Annexure 2: Detailed Assessment Criteria

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

| NOS/ Module Name   | Assessment Criteria for Performance Criteria/Learning Outcomes   | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|--|--|--------------|-----------------|---------------|------------|
| FFS/N0914: Perform site recce and prepare the product drawings | <b>Site Assessment and Environmental Consideration</b>   | <b>6</b>     | <b>12</b>       | <b>2</b>      | <b>2</b>   |
|  | <b>PC1.</b> access the location of the finished product and environmental conditions   | 2            | 4               | 0             | 1          |
|  | <b>PC2.</b> collaborate with experts to gather insights and perspectives of site that may influence the design and construction process.                                     | 2            | 4               | 0             | 0          |
|  | <b>PC3.</b> measure and record the size and shape of the area in which the completed product will be installed   | 2            | 4               | 2             | 1          |
|  | <b>Drawing Docket Interpretation</b>   | <b>2</b>     | <b>12</b>       | <b>6</b>      | <b>1</b>   |
|  | <b>PC4.</b> interpret drawing docket with precision, optimizing the potential for high-quality construction while considering design intent                                  | 2            | 4               | 2             | 1          |
|  | <b>PC5.</b> determine and check quantities of materials required for construction, considering factors such as waste minimization and cost-effectiveness.                    | 0            | 4               | 2             | 0          |
|  | <b>PC6.</b> seek clarification and correct any missing or incorrect information in drawings, ensuring accuracy and eliminating potential issues in the construction process. | 0            | 4               | 2             | 0          |
|  | <b>Working with Drawing</b>  | <b>10</b>    | <b>20</b>       | <b>8</b>      | <b>4</b>   |
|  | <b>PC7.</b> produce meticulous drawings both to scale and full size, adhering to drawing docket specifications.  | 2            | 4               | 2             | 1          |
|  | <b>PC8.</b> perform the drawing annotation with appropriate dimensional points, specification, conventions and notes on the full-scale drawing                               | 2            | 4               | 2             | 1          |
|  | <b>PC9.</b> utilize geometric methods adeptly to determine missing complex angles, joints, and intersections   | 2            | 4               | 2             | 1          |
|  | <b>PC10.</b> produce lines that are straight, crisp, accurate, meet clearly at intersections, and maintain consistent thickness and correct weight.                          | 2            | 4               | 2             | 1          |
|  | <b>PC11.</b> ensure that line types effectively convey different elements of the design and construction process.  | 2            | 4               | 0             | 0          |
| <b>Accurate Joint Details Production</b>                       | <b>4</b>   | <b>8</b>     | <b>2</b>        | <b>1</b>      |            |

|  |  |           |           |           |          |
|--|--|-----------|-----------|-----------|----------|
|  | <b>PC12.</b> produce joint details that are accurate, correctly proportioned, and aligned with the overall design intent.  | 2         | 4         | 2         | 1        |
|  | <b>PC13.</b> ensure that all measurements in the working drawing meet specified requirements and align with project specifications.                                      | 2         | 4         | 0         | 0        |
|  | <b>NOS Total</b>   | <b>22</b> | <b>52</b> | <b>18</b> | <b>8</b> |
| <b>FFS/N0915: Select and prepare the materials into required specifications and dimensions</b> | <b>Material Selection and setting out</b>  | <b>10</b> | <b>28</b> | <b>14</b> | <b>3</b> |
|  | <b>PC1.</b> select materials, avoiding defects and enhance the overall appearance of the finished product.   | 2         | 4         | 2         | 1        |
|  | <b>PC2.</b> assess the suitability of chosen materials concerning functionality, durability, and industry standards as indicated in drawings                             | 2         | 4         | 2         | 0        |
|  | <b>PC3.</b> prepare the cutting list of the product components based on finished and raw dimension specification   | 0         | 4         | 2         | 0        |
|  | <b>PC4.</b> set out materials meticulously to determine all necessary measurements, sections, angles, mitres, and joints   | 2         | 4         | 2         | 0        |
|  | <b>PC5.</b> perform face marking of final dimensions and shapes for fabrication, maintaining fidelity to design specifications.  | 2         | 4         | 2         | 1        |
|  | <b>PC6.</b> make use of digital tools and technology for accurate measurement determination and material set out   | 2         | 4         | 2         | 1        |
|  | <b>PC7.</b> perform labelling on materials and items appropriately to maintain organization and clarity throughout the fabrication process.                              | 0         | 4         | 2         | 0        |
|  | <b>Material Sawing and Drying Process</b>  | <b>4</b>  | <b>12</b> | <b>6</b>  | <b>1</b> |
|  | <b>PC8.</b> perform sawing of materials to match the specifications outlined in the material list, considering factors such as grain direction and project requirements. | 2         | 4         | 2         | 0        |
|  | <b>PC9.</b> set the sawn materials for drying, ensure the right moisture content.  | 2         | 4         | 2         | 1        |
|  | <b>PC10.</b> perform planning of materials to achieve "squareness" and the desired thickness   | 0         | 4         | 2         | 0        |
|  | <b>Jig Creation for Stationery Machines</b>  | <b>4</b>  | <b>12</b> | <b>4</b>  | <b>2</b> |
|  | <b>PC11.</b> access the requirement of jigs based on part specification  | 2         | 4         | 0         | 1        |
|  | <b>PC12.</b> select the appropriate tools, material and process specifications for jig fabrication   | 2         | 4         | 2         | 1        |
|  | <b>PC13.</b> produce jigs for stationery machines based on drawings, adhering to safety requirements and ensuring accuracy in manufacturing.                             | 0         | 4         | 2         | 0        |
|  | <b>NOS Total</b>   | <b>18</b> | <b>52</b> | <b>24</b> | <b>6</b> |

|  |   |           |           |          |          |
|--|---|-----------|-----------|----------|----------|
| <b>FFS/N0916: Prepare the components with internal and external joints to perform product assembly</b>   | <b>Preparing components</b>   | <b>2</b>  | <b>16</b> | <b>8</b> | <b>1</b> |
|  | <b>PC1.</b> perform the cutting of panels into required specifications using a cutting machine                          | 1         | 4         | 2        | 0        |
|  | <b>PC2.</b> produce shaped elements using jigs on stationery machines, aligning with design specifications              | 0         | 4         | 2        | 0        |
|  | <b>PC3.</b> utilize woodworking machines skilfully to form grooves, rebates, and mouldings                              | 1         | 4         | 2        | 1        |
|  | <b>PC4.</b> adapt and refine shaped elements as necessary to meet evolving project requirements and design alterations. | 0         | 4         | 2        | 0        |
|  | <b>Fabricate internal and external joints for product assembly</b>  | <b>7</b>  | <b>24</b> | <b>8</b> | <b>2</b> |
|  | <b>PC5.</b> undertake the preparation of joints with accurate measurements and intersections with no gaps               | 1         | 4         | 2        | 1        |
|  | <b>PC6.</b> use appropriate hand tools and machines for joint preparation   | 1         | 4         | 2        | 0        |
|  | <b>PC7.</b> produce mortices and haunches to the specified depth, width, and length as specified in drawing.            | 0         | 4         | 2        | 0        |
|  | <b>PC8.</b> prepare joints that are parallel, clean, and correct in size to the drawing                                 | 1         | 4         | 2        | 0        |
|  | <b>PC9.</b> ensure faces, edges, and all shoulders are square straight and to the drawing                               | 1         | 2         | 0        | 0        |
|  | <b>PC10.</b> achieve snug fit for the joints, ensuring a smooth "push fit" without excessive tightness or looseness.    | 1         | 2         | 0        | 0        |
|  | <b>PC11.</b> ensure proper checking of joints for strength and durability   | 1         | 2         | 0        | 0        |
|  | <b>PC12.</b> check and confirm the joint geometry conform with the product drawing                                      | 1         | 2         | 0        | 1        |
|  | <b>Perform trial assembly</b>   | <b>0</b>  | <b>8</b>  | <b>4</b> | <b>0</b> |
| <b>PC13.</b> perform trial assembly to check that components fit together seamlessly, with no gaps, and conform to the specifications outlined in the working drawing. | 0   | 4         | 2         | 0        |          |
| <b>PC14.</b> perform rectification to address any discrepancies identified during the trial assembly.  | 0   | 4         | 2         | 0        |          |
| <b>Product Assembly</b>  | <b>3</b>  | <b>12</b> | <b>4</b>  | <b>1</b> |          |
| <b>PC15.</b> select and prepare the appropriate glue for assembly, considering factors such as material compatibility and project requirements.                        | 1   | 4         | 2         | 0        |          |

|   |  |           |           |           |          |
|---|--|-----------|-----------|-----------|----------|
|   | <b>PC16.</b> apply glue evenly and attach the edging, ensuring there are no "twists" and that the attachment is "square."                  | 0         | 4         | 2         | 1        |
|   | <b>PC17.</b> ensure that joints are complete, well-finished, and aligned with project specifications.                                      | 1         | 2         | 0         | 0        |
|   | <b>PC18.</b> verify the completeness and quality of joints in the assembled components.  | 1         | 2         | 0         | 0        |
|   | <b>NOS Total</b>   | <b>12</b> | <b>60</b> | <b>24</b> | <b>4</b> |
| <b>FFS/N0917: Perform the product finishing and installation based on design specifications</b> | <b>Product Finishing</b>   | <b>5</b>  | <b>28</b> | <b>16</b> | <b>3</b> |
|   | <b>PC1.</b> complete the product to the specifications outlined in the drawing   | 0         | 6         | 4         | 0        |
|   | <b>PC2.</b> interpret the quality standard required by customers or trades for further processes   | 1         | 6         | 4         | 0        |
|   | <b>PC3.</b> use appropriate tools to smoothen the surface of the product through sanding by machine and/or by hand to a specified standard | 1         | 6         | 4         | 1        |
|   | <b>PC4.</b> prepare edging for protection, ensuring durability and longevity.  | 1         | 6         | 4         | 1        |
|   | <b>PC5.</b> maintain the quality of the surface during assembly and installation, e.g., free from glue and any defects or chips            | 1         | 2         | 0         | 1        |
|   | <b>PC6.</b> address and resolve any defects identified during the quality checking process   | 1         | 2         | 0         | 0        |
|   | <b>Product Installation</b>  | <b>7</b>  | <b>26</b> | <b>12</b> | <b>3</b> |
|   | <b>PC7.</b> plan installations, repairs, or maintenance to meet customer and related trades needs and expectations.                        | 1         | 6         | 4         | 0        |
|   | <b>PC8.</b> check the quality and completeness of all components before installation, addressing any discrepancies or issues identified.   | 1         | 2         | 0         | 1        |
|   | <b>PC9.</b> evaluate and select fittings based on both functional requirements and aesthetic considerations                                | 1         | 6         | 4         | 1        |
|   | <b>PC10.</b> check where changes may be necessary to the positioning/fixing of components  | 1         | 2         | 0         | 0        |
|   | <b>PC11.</b> ensure prevention of any damage to finishes during the installation process   | 1         | 2         | 0         | 0        |
|   | <b>PC12.</b> ensure quality checks at regular intervals during installation to avoid any defects/ error detection at a later stage         | 1         | 2         | 0         | 0        |
| <b>PC13.</b> perform the cleaning of the installed product thoroughly before handover           | 1  | 6         | 4         | 1         |          |
| <b>NOS Total</b>  | <b>12</b>  | <b>54</b> | <b>28</b> | <b>6</b>  |          |

|  |   |           |           |          |          |
|--|---|-----------|-----------|----------|----------|
| <b>FFS/N8211: Execute joinery work with safety and adherence to workplace management standards</b>                   | <b>Adherence to Health and Safety Standards</b>   | <b>6</b>  | <b>18</b> | <b>4</b> | <b>2</b> |
|  | <b>PC1.</b> follow health and safety standards, rules, and regulations governing the construction environment.  | 2         | 6         | 0        | 1        |
|  | <b>PC2.</b> uphold a safe working environment, implementing measures to ensure the well-being of oneself and others.                                    | 2         | 6         | 0        | 0        |
|  | <b>PC3.</b> identify and employ the necessary personal protective equipment, including safety footwear, ear and eye protection, and dust protection.    | 2         | 6         | 4        | 1        |
|  | <b>Tools, Equipment, and Material Safety</b>  | <b>4</b>  | <b>12</b> | <b>8</b> | <b>2</b> |
|  | <b>PC4.</b> prudently use, clean, maintain, and store all hand and powered tools and equipment safely, following recommended procedures.                | 2         | 6         | 4        | 1        |
|  | <b>PC5.</b> safely select, use, and store all materials, adhering to established safety guidelines.   | 2         | 6         | 4        | 1        |
|  | <b>Work Area Planning and Efficiency</b>  | <b>4</b>  | <b>12</b> | <b>8</b> | <b>0</b> |
|  | <b>PC6.</b> plan the work area to optimize efficiency, incorporating regular tidying and cleaning practices.  | 2         | 6         | 4        | 0        |
|  | <b>PC7.</b> measure accurately to avoid wastage, ensuring efficient use of resources.   | 2         | 6         | 4        | 0        |
|  | <b>Work Efficiency and Self-Evaluation</b>  | <b>4</b>  | <b>12</b> | <b>4</b> | <b>0</b> |
|  | <b>PC8.</b> perform work efficiently, regularly checking progress and outcomes to maintain high productivity.   | 2         | 6         | 4        | 0        |
|  | <b>PC9.</b> evaluate personal work, identifying areas for improvement and implementing corrective measures.   | 2         | 6         | 0        | 0        |
| <b>NOS Total</b>   | <b>18</b>   | <b>54</b> | <b>24</b> | <b>4</b> |          |
| <b>FFS/N8212: Display effective communication and professional skills at workplace</b>                               | <b>Customer Trust and Relationship Management</b>   | <b>4</b>  | <b>8</b>  | <b>2</b> | <b>0</b> |
|  | <b>PC1.</b> gain the trust of customers by interpreting their requirements, managing expectations positively, and delivering on commitments.            | 2         | 4         | 0        | 0        |
|  | <b>PC2.</b> visualize and translate customer wishes, providing advice and recommendations that meet or improve their design and budgetary requirements. | 2         | 4         | 2        | 0        |
|  | <b>Decision-Making and Supplier Relations</b>   | <b>2</b>  | <b>8</b>  | <b>4</b> | <b>0</b> |
|  | <b>PC3.</b> positively support and lead decision-making assertively, ensuring alignment with project objectives.  | 0         | 4         | 2        | 0        |
|  | <b>PC4.</b> perform liaising with suppliers to negotiate prices, place orders, and maintain positive relations.   | 2         | 4         | 2        | 0        |
|  | <b>Cost Estimation and Industry Awareness</b>   | <b>4</b>  | <b>8</b>  | <b>2</b> | <b>0</b> |
| <b>PC5.</b> produce accurate cost and time estimates for customers, demonstrating financial and temporal competency. | 2   | 4         | 2         | 0        |          |

|  |            |            |            |           |
|--|------------|------------|------------|-----------|
| PC6. keep up to date with changes in the construction industry, staying informed about trends and advancements.  | 2          | 4          | 0          | 0         |
| <b>Adaptability and Innovation</b>   | <b>6</b>   | <b>12</b>  | <b>4</b>   | <b>0</b>  |
| PC7. display willingness to try new methods and embrace change, contributing to a culture of innovation  | 2          | 4          | 0          | 0         |
| PC8. recognize and understand problems swiftly, following a self-managed process for resolution, and challenging incorrect information to prevent future issues. | 2          | 4          | 2          | 0         |
| PC9. perform tasks, fulfil deadlines, and report progress properly.  | 2          | 4          | 2          | 0         |
| <b>Quality Improvement and Communication</b>   | <b>4</b>   | <b>24</b>  | <b>8</b>   | <b>0</b>  |
| PC10. regularly scrutinize work for accuracy/standard, aiming to minimize potential issues in later stages.  | 0          | 4          | 2          | 0         |
| PC11. recognize and comprehend problems as they arise, applying a self-managed process for resolution to prevent escalation.                                     | 0          | 4          | 2          | 0         |
| PC12. proactively challenge incorrect information to avert potential problems and ensure the accuracy of work.   | 0          | 4          | 2          | 0         |
| PC13. recognize opportunities to contribute ideas that improve the product and overall industry quality.   | 0          | 4          | 2          | 0         |
| PC14. keep abreast of industry developments, ensuring a current understanding of changes and trends.   | 2          | 4          | 0          | 0         |
| PC15. display willingness to experiment with new methods, fostering an environment of adaptability and change embracement.                                       | 2          | 4          | 0          | 0         |
| <b>NOS Total</b>   | <b>20</b>  | <b>60</b>  | <b>20</b>  | <b>0</b>  |
| <b>Grand Total</b>   | <b>102</b> | <b>332</b> | <b>138</b> | <b>28</b> |



### Annexure 3: Assessment Strategy

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

The following skill assessment strategy and procedures for the skill competition are taken into account:

#### **A - Interior Joints:**

- Criteria: Surfaces should be flat with minimum saw/chisel marks, and no overcutting at internal joint faces.
- Assessment Method: Experts will assess the accuracy and cleanness of joints and cuts.

#### **B - Dimensions:**

- Criteria: Members should be cut and assembled with high accuracy; dimensions are identified on the marking team's drawings.
- Assessment Method: Two groups of three Experts will measure dimensions; if results differ by more than 0.5 mm, a third team of two Experts will confirm measurements.

#### **C - Exterior Joints:**

- Criteria: Joints formed with no gaps; the biggest gap in each cluster of joints is measured.
- Assessment Method: Joints are assessed by three Experts.

#### **D - Neatness of Finish, Cleanness, and General Impression:**

- Criteria: All members in place, no unsightly joints, flat surfaces, accurate backing bevels, minimal pencil marks and stains, neat screw fixings.
- Assessment Method: Overall project judged by Experts for neatness, cleanness, and general impression.

#### **E - Use of Material:**

- Criteria: Complete the project using provided material, optimize material ordering, no re-cutting after interior joints are marked, no sanding/planning after assembly.
- Assessment Method: Experts will ensure compliance with material use criteria.

**Assessment Procedures:**

1. Team Allocation: Chief Expert allocates Experts into marking teams based on WorldSkills experience, language, and culture considerations.
2. Assigned Aspects: Each marking team is allocated specific aspects of the project to assess for all competitors.
3. Competitor Requests: Competitors can request permission for recuts (up to four) or a new piece of wood (up to two) up to their deduction credit.

**Additional Notes:**

1. Communication: Clear communication between marking teams and competitors is essential.
2. Consistency: Marking teams should ensure consistency in applying assessment criteria.
3. Transparency: Competitors should be aware of the deduction credit available for recuts and new pieces.
4. Fairness: The assessment process should be fair and unbiased, considering competitors' requests within the defined limits.

This strategy aims to ensure a comprehensive and fair evaluation of skills in the WorldSkills competition, emphasizing accuracy, neatness, and adherence to specified criteria.

## Annexure 4: Acronym and Glossary

**Acronyms**

| <b>Acronym</b> | <b>Description</b>                                   |
|----------------|--|
| <b>AA</b>      | Assessment Agency                                    |
| <b>AB</b>      | Awarding Body  |
| <b>ISCO</b>    | International Standard Classification of Occupations |
| <b>NCO</b>     | National Classification of Occupations               |
| <b>NCrF</b>    | National Credit Framework                            |
| <b>NOS</b>     | National Occupational Standard(s)                    |
| <b>NQR</b>     | National Qualification Register                      |
| <b>NSQF</b>    | National Skills Qualifications Framework             |
| <b>OJT</b>     | On the Job Training                                  |
| <b>MEP</b>     | Mechanical Electrical Plumbing                       |
| <b>CAD</b>     | Computer-Aided Design                                |
| <b>PwD</b>     | Person with Disability                               |
| <b>POSH</b>    | Prevention Of Sexual Harassment                      |
| <b>OHS</b>     | Occupational Health and Safety                       |

## Glossary

| Term   | Description  |
|--|--|
| <b>National Occupational Standards (NOS)</b> | NOS define 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>   |
| <b>Sub-sector</b>                            | Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.   |
| <b>Occupation</b>                            | Occupation is a set of job roles, which perform similar/ related set of functions in an industry.  |
| <b>Job role</b>                              | Job role defines a unique set of functions that together form a unique employment opportunity in an organisation   |
| <b>Occupational Standards (OS)</b>           | OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the Knowledge and Understanding (KU) they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.   |
| <b>Performance Criteria (PC)</b>             | Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.  |
| <b>Electives</b>                             | Electives are NOS/set of NOS that are identified by the sector as contributive to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives.  |
| <b>Core Skills/ Generic Skills (GS)</b>      | Core skills or Generic Skills (GS) are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles. |
| <b>Technical Knowledge</b>                   | Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities  |