



QUALIFICATION FILE

Carpenter (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:

Furniture and Fittings Sector Skill Council

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Table of Contents

Section 1: Basic Details 3

Section 2: Module Summary 5

 NOS/s of Qualifications 5

 Mandatory NOS/s: 5

 Assessment - Minimum Qualifying Percentage 6

Section 3: Training Related 6

Section 4: Assessment Related 7

Section 5: Annexure & Supporting Documents Check List 7

 Annexure 1: Tools and Equipment (Lab Set-Up) 8

 Annexure 2: Detailed Assessment Criteria 11

 Annexure 3: Assessment Strategy 15

 Annexure 4: Acronym and Glossary 17

Section 1: Basic Details

1.	Qualification Name	Carpenter (WorldSkills)					
2.	Sector/s	Wood and Carpentry					
3.	Type of Qualification: <input checked="" type="checkbox"/> New <input type="checkbox"/> Revised <input type="checkbox"/> Has Electives/Options <input type="checkbox"/> OEM	NQR Code & version of existing qualification: QG-4.5-WC-00829-2023-V2-FFSC	Qualification Name of existing version: Carpenter (FFS/Q2203, V3.0)				
4.	National Qualification Register (NQR) Code &Version	QG-4.5-WC-01791-2024-V1-FFSC	5. NCrF/NSQF Level: 4.5				
6.	Award (Certificate/ Diploma/ Advance Diploma/ Any Other)	Certificate					
7.	Brief Description of the Qualification	The WorldSkills-Certified Carpenter conducts on-site surveys, interprets blueprints, and prepares worksites with precision. Proficient in using hand tools and machines, the individual excels in measuring, cutting, shaping, assembly, joining, and installing wood materials. This role epitomizes excellence in carpentry, aligning seamlessly with WorldSkills competition standards.					
8.	Eligibility Criteria for Entry for Student/ Trainee/ Learner/ Employee	a. Entry Qualification & Relevant Experience As per the WorldSkills and IndiaSkills eligibility criteria. b. Age: 22 years (maximum)- At the time of competition					
9.	Credits Assigned to this Qualification, Subject to Assessment	17	10. Common Cost Norm Category (I/II/III): II				
11.	Any Licensing requirements for Undertaking Training on This Qualification	Not Applicable					
12.	Training Duration by Modes of Training Delivery	<input checked="" type="checkbox"/> Offline <input type="checkbox"/> Online <input type="checkbox"/> Blended					
		Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)
		Classroom (offline)	142	368	0	0	510
		Online	0	0	0	0	0

13.	Aligned to NCO/ISCO Code/s	NCO-2015/7115.0300	
14.	Progression path after attaining the qualification	Professional Progression (Vertical): Master Carpenter, Installation Supervisor	
15.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	Hindi	
16.	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:	
17.	Is the Job Role Amenable to Persons with Disability	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
18.	Are Greening/ Environment Sustainability Aspects Covered	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
19.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Colleges <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
20.	Name and Contact Details of Submitting / Awarding Body SPOC	Name: Mr. Rahul Mehta Email: ceo@ffsc.in Contact No.: +91 124 4513900 Website: ffsc.in	
21.	Final Approval Date by NSQC: 06-02-2024	22. Validity Duration: 2 years	23. Next Review Date: 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	Interpret the work docket and demonstrate proficiency in working with drawings	NOS Code: FFS/N2228 Version No. 1	Core	4.5	4	28	92	0	0	120	20	52	22	6	100	25
3	Perform material selection and setting out work for accurate carpentry joint fabrication	NOS Code: FFS/N2229 Version No. 1	Core	4.5	4	28	92	0	0	120	18	50	26	6	100	30
4	Erect the structure and perform finishing based on drawing specifications	NOS Code: FFS/N2230 Version No. 1	Core	4.5	5	32	118	0	0	150	24	52	20	4	100	30
5	Execute carpentry work with safety, effective communication, and professional development	NOS Code: FFS/N8208 Version No. 1	Non-Core	4.5	3	24	66	0	0	90	14	60	22	4	100	15
Duration (in Hours) / Total Marks					17	142	368	0	0	510	76	214	90	20	400	100

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.	Trainer's Qualification and experience in the relevant sector (in years)	<p>A trainer should be eligible in any of below mentioned categories:</p> <ol style="list-style-type: none"> 1. Have a formal and/or recognized certification with proven industrial and/or practical experience in the relevant skill (minimum 10 years). 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"> a. Have worked as a Jury member/expert in skill competitions and other competitions of similar nature at regional/national levels OR b. Trained/mentored competitors for IndiaSkills/ WorldSkills competitions (national/ international). <p>NOTE: 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.	Master Trainer's Qualification and experience in the relevant sector (in years)	Graduate (In any field) with minimum 5 years of relevant experience
3.	Tools and Equipment Required for Training	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No The list is same as used for classroom-based training
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	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.	Assessor's Qualification and experience in relevant sector (in years)	<p>An assessor should be eligible in any of below mentioned categories:</p> <p>3. Have a formal and/or recognized certification with proven industrial and/or practical experience in the relevant skill (minimum 10 years).</p> <p>4. 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:</p> <p>a. Have worked as a Jury member/expert in skill competitions and other competitions of similar nature at regional/national levels OR</p> <p>b. Trained/mentored competitors for IndiaSkills/ WorldSkills competitions (national/ international).</p> <p>NOTE: 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.	Proctor's Qualification and experience in relevant sector (in years)	Graduate (In any field) with minimum 3 years of relevant experience
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years)	Graduate (In any field) with minimum 5 years of relevant experience
4.	Assessment Mode	Offline Mode
5.	Tools and Equipment Required for Assessment	<input checked="" type="checkbox"/> Same as for training <input type="checkbox"/> Yes <input type="checkbox"/> No

Section 5: Annexure & Supporting Documents Check List

1.	Annexure: List of tools and equipment relevant for qualification	Refer to Annexure 1
2.	Annexure: Detailed Assessment Criteria	Refer to Annexure 2
3.	Annexure: Assessment Strategy	Refer to Annexure 3
4.	Annexure: Acronym and Glossary	Refer to Annexure 4
5.	Supporting Document: 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	Dust Mask	Type: N95 respirator Material: HEPA filter Strap: Adjustable Compliance: NIOSH standards	5
2	Safety Shoe	Type: Steel-toe boots Material: Leather or synthetic Sole: Slip-resistant	5
3	Safety Gloves	Type: Cut-resistant Material: Leather or synthetic	5
4	Safety Goggles	Type: Wrap-around Material: Polycarbonate lenses Compliance: ANSI Z87.1-2015	5
5	Ear Plug	Type: Disposable foam Material: Soft foam NRR: Adequate noise reduction	5
6	Apron	Material: Canvas or leather Design: Adjustable straps, multiple pockets	5
7	Sliding Bevel	Material: Hardened steel blade Angle Adjustment: Smooth sliding mechanism	5
8	Marking Gauge	Material: Hardened steel or brass Adjustment: Easy and secure locking mechanism	5
9	Try Square	Material: Steel or aluminum Accuracy: Machined for precise 90-degree angles	5
10	Measuring Tape	Length: Variable lengths Material: Steel or fiberglass Markings: Clear and easy-to-read	5
11	Divider	Material: Hardened steel or brass Adjustment: Smooth and precise	5

12	Steel Ruler	Material: Stainless steel Measurement: Clear markings in inches and millimeters	5
13	Angle Protector	Material: Durable plastic or metal Design: Adjustable arms for measuring angles	5
14	Pencil	Type: Woodworking pencil Lead: Medium hardness Grip: Comfortable non-slip	5
15	Notebook	Type: Durable and portable Paper: Heavy-duty Purpose: Records measurements, sketches, and notes	5
16	Firmer Chisel Set	Blade Material: High-carbon steel Handle: Ergonomic and durable	5
17	Mortise Chisel Set	Blade Material: Hardened steel Handle: Sturdy and comfortable grip	5
18	Hand Saw	Type: Crosscut or rip-cut Blade Length: Variable lengths TPI: Appropriate for the intended use	5
19	Wooden Hammer	Type: Claw hammer with wooden handle Weight: Suitable for woodworking tasks	5
20	Hand Planer	Blade Type: Adjustable and replaceable Sole: Flat and smooth Adjustment: Depth and lateral	5
21	Working Table With Vice	Material: Sturdy wood or metal Size: Large enough for various projects	5
22	Dustbin	Material: Durable plastic or metal Capacity: Adequate Design: Lid for containing dust and debris	5
23	Miter Saw	Type: Compound miter saw Blade Size: Suitable for various woodworking tasks	5
24	Track Saw	Type: Circular saw with track guide Track Length: Variable lengths	5
25	Electric Hand Router	Power: Sufficient for woodworking tasks Variable Speed: Adjustable Collet Size: Compatible with various bits	5

26	Cordless Drill	Power: Suitable for drilling and driving Battery: Rechargeable lithium-ion Chuck Size: Accommodates bits	5
27	Bandsaw	Type: Benchtop or floor-standing Blade Type: Suitable for various cuts	5
28	Router Bit Set	Set: Varied set with different profiles and sizes Shank Size: Compatible with router's collet	5

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/N2228: Interpret the work docket and demonstrate proficiency in working with drawings	Drawing Docket Interpretation and Optimization	6	18	8	1
	PC1. conduct a thorough assessment of intended uses and environmental conditions based on drawing dockets, seeking clarity when needed.	0	4	2	0
	PC2. interpret drawing dockets with precision, optimizing the potential for high-quality construction while considering design intent	2	4	2	0
	PC3. extrapolate information from drawings and specifications to address gaps or uncertainties.	2	6	4	1
	PC4. seek clarification and correct any missing or incorrect information in drawings, ensuring accuracy and eliminating potential issues in the construction process.	2	4	0	0
	Material Identification	6	14	6	2
	PC5. identify the materials specified in drawing dockets, seeking clarification for any discrepancies.	2	4	0	1
	PC6. identify materials and quantities needed for the product according to drawing docket specifications, showcasing proficiency in parts identification.	2	6	4	0
	PC7. organize of all the necessary tools, materials, and equipment for the specified operations	2	4	2	1
	Working with Drawing	8	20	8	3
	PC8. produce meticulous drawings both to scale and full size, adhering to drawing docket specifications.	2	6	4	1
	PC9. perform the drawing annotation with appropriate dimensional points, specification, conventions and notes on the full scale drawing	2	6	4	1
	PC10. utilize geometric methods adeptly to determine missing complex angles, joints, and intersections	2	4	0	1
	PC11. perform checking of angles, shapes and dimensions against specifications	2	4	0	0
	NOS Total		20	52	22

FFS/N2229: Perform material selection and setting out work for accurate carpentry joint fabrication	Accurate Setting Out	2	10	6	1
	PC1. set out relevant aspects of construction projects accurately and clearly using conventional and digital tools	0	4	2	0
	PC2. implement strategies to avoid cumulative and compounded errors during the setting out process	2	6	4	1
	Calculation and Formula Application	4	10	4	1
	PC3. use appropriate calculations and formulae to set-out dimensions and measurements accurately	2	6	4	1
	PC4. apply mathematical principles to validate and adjust measurements, ensuring alignment with project specifications.	2	4	0	0
	Material Selection and Joint fabrication	12	30	16	4
	PC5. ensure proper selection of appropriate timber and timber-based materials, considering factors such as strength, durability, and aesthetic considerations.	2	4	2	1
	PC6. prepare a cutting list of product components based on materials and design specifications	2	6	4	0
	PC7. perform the measurement and marking on timber and timber-based materials for joint fabrication	2	6	4	1
	PC8. select and safely use hand and power tool to cut joints safely and accurately.	2	4	2	1
	PC9. prepare joints that are parallel, clean, and correct in size to the drawing	2	6	4	1
	PC10. ensure proper checking of joints for strength and durability	2	4	0	0
NOS Total	18	50	26	6	
FFS/N2230: Erect the structure and perform finishing based on drawing specifications	Accurate Assembly and Erection	4	20	8	1
	PC1. perform the assembly and erect structures according to project specifications, ensuring precision in alignment and fit.	0	8	4	0
	PC2. execute assembly tasks without causing damage to components, minimizing personal risk, risk to others, and potential damage to property.	0	6	4	0
	PC3. select and use specified fasteners as outlined in project drawings	4	6	0	1
	Finishing to Specification	20	32	12	3
	PC4. produce accurate joints and intersections with no gaps	4	6	4	1
	PC5. attach members neatly using appropriate fasteners, ensuring a clean and professional appearance.	4	6	4	1

	PC6. finish carpentry work to the surface finish specifications outlined in project drawings	4	8	4	0
	PC7. avoid damage or unsightly marking of components during the finishing process	4	6	0	0
	PC8. conduct regular quality checks during the finishing process	4	6	0	1
	NOS Total	24	52	20	4
FFS/N8208: Execute carpentry work with safety, effective communication, and professional development.	Safety at Worksite	4	14	6	2
	PC1. produce work in conformity with pertinent health and safety legislation, regulations, and obligations governing construction activities.	2	4	2	1
	PC2. implement robust risk management approaches, including the elimination, isolation, or minimization of potential risks.	0	4	2	0
	PC3. select and utilize suitable personal protective equipment (PPE) when required, ensuring alignment with safety protocols.	2	6	2	1
	Safety in Tool and Equipment Usage	4	10	2	1
	PC4. prudently use, uphold, manage, and warehouse tools, equipment, and materials on-site, in accordance with established safety protocols.	2	6	2	1
	PC5. conduct regular assessments of tools and equipment for their secure operational state, reporting any anomalies or issues expeditiously.	2	4	0	0
	Efficient Project Completion	2	10	2	1
	PC6. perform construction projects securely, precisely, and proficiently, in adherence to stipulated standards and within anticipated timelines.	0	6	2	0
	PC7. curtail the environmental impact of projects through resourceful work methodologies, waste reduction, and the utilization of pertinent equipment.	2	4	0	1
	Stakeholder Engagement and Transparent Communication	0	8	4	0
	PC8. engage proficiently with pertinent entities involved in construction projects, encompassing clients, contractors, and other stakeholders.	0	4	2	0
	PC9. clearly communicate project requirements and expectations to all involved parties in construction projects, ensuring mutual understanding.	0	4	2	0
Problem Resolution and Professional Advancement	4	18	8	0	

	PC10. foresee and forestall commonplace variables in construction projects, such as material selection, to preclude potential predicaments.	2	6	2	0
	PC11. rectify problems at their foundational source, tackling underlying issues rather than surface-level symptoms.	2	4	2	0
	PC12. uphold currency in industry knowledge and trends through persistent research, skill augmentation, lifelong training, and/or educational pursuits.	0	4	2	0
	PC13. supervise individual work proficiently, showcasing autonomy and accountability for assigned project tasks.	0	4	2	0
	NOS Total	14	60	22	4
	Grand Total	76	214	90	20

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

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

Glossary

Term	Description
National Occupational Standards (NOS)	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.
Qualification	A formal outcome of an assessment and validation process which is obtained when a competent body determines that an individual has achieved learning outcomes to given standards
Qualification File	A Qualification File is a template designed to capture necessary information of a Qualification from the perspective of NSQF compliance. The Qualification File will be normally submitted by the awarding body for the qualification.
Sector	A grouping of professional activities on the basis of their main economic function, product, service or technology.
Long Term Training	Long-term skilling means any vocational training program undertaken for a year and above. https://ncvet.gov.in/sites/default/files/NCVET.pdf
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Occupation	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation
Occupational Standards (OS)	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.
Performance Criteria (PC)	Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.
Electives	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.
Core Skills/ Generic Skills (GS)	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.
Technical Knowledge	Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities