





QUALIFICATION FILE

Assistant Panelworks Machine Operator

☑ 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:

Furniture and Fittings Sector Skill Council

Chief Executive Officer 407-408, 4th Floor, DLF City Court, MG Road Sikenderpur, Gurgaon (Haryana)- 122 002 Tel: 91 124 4513900

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Section 1: Basic Details

1.	Qualification Name	Assistant	Panelworks Machine Operator							
2.	Sector/s	Interiors,	eriors, Furniture and Fixtures QR Code & version of existing qualification: NA Qualification Name of existing version:							
3.	Type of Qualification:	NQR Cod								
	🛛 New			NA						
	⊠ Revised									
	☑ Has Electives									
4.	National Qualification	QG-04-W	C-00820-2023-V1-FFSC	5. NCrF/NSQF Level: 4						
	Register (NQR) Code									
	&Version									
6.	Award									
	(Certificate/ Diploma/	Certificate								
	Advance Diploma/ Any Other)									
7.	Brief Description of the	The Assi	stant Panelworks Machine Operator supports the operator supports t	eration of panelworks machinery by assist	ing in setup, maintenance, and					
/ ·	Qualification		g of the equipment. They collaborate with the machine							
			btocols to deliver high-quality panel products. The in		m a range of options, such as					
		pasting/p	essing, cutting/sizing, edge banding, drilling, routing, a	and veneer cutting/splicing operations.						
8.	Eligibility Criteria for	a Entry	Qualification & Relevant Experience:							
	Entry for Student/									
	Trainee/ Learner/	S. No.	Academic/Skill Qua	lification	Required Experience					
	Employee	1	Grade 12 pass		NA					
		2	Completed 2 nd year of 3-year diploma (after Grade 10)		NA					
		3	Pursuing 2 nd year of 3-year regular Diploma (after Grad	de 10)	NA					
		4	Grade 10 pass with 2 years of any combination of NTC	C/NAC/CITS or equivalent	NA					
		5	Grade 10 pass and pursuing continuous schooling (for	2 years program)	NA					
		6	6 Grade 11 Pass and pursuing continuous schooling NA							
		7	Grade 11 Pass		1 year of relevant experience					
		8	Grade 10 Pass		2 years of relevant experience					
		9	Previous relevant Qualification of NSQF Level 3.0 (M and Installation)	ultipurpose Assistant- Furniture Production	3 years of relevant experience					
		b. Age:	16 years (minimum)							

9.	Credits Assigned to this Qualification,	34		10. Comn	non Cost Norm Cate	egory (I/II/III):			
	Subject to Assessment	34							
11.	Any Licensing requirements for Undertaking Training on This Qualification	Not Applicable							
12.	Training Duration by Modes of Training	□Offline □Online ⊠Blended							
	Delivery	Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)		
		Classroom (offline)	81	448	360	0	889		
		Online	81	50	0	0	131		
13.	Aligned to NCO/ISCO Code/s	NCO-2015/7523.9900							
14.	Progression path after attaining the qualification	Panelworks Machine Operator (N The occupational map is attached	Professional Progression (Vertical): Panelworks Machine Operator (NSQF Level 4.5) The occupational map is attached as an annexure which shows the professional progression. Academic Progression (Vertical):						
15.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	Hindi			0001303)				
16.	Is similar Qualification(s) available on NQR-if yes, justification for this qualification	□ Yes ⊠ No URLs of similar Qualifications:							
17.	Is the Job Role Amenable to Persons with Disability	 Yes □ No If "Yes", specify applicable typ Acid Attack Victims Speech and Language Disab 	-						

18.	How Participation of Women will be Encouraged	furniture sector. By empowering women with valuable machi traditionally male-dominated field. It challenges gender stereot course provides women with access to economic opportunitie furniture industry. The course enhances the sector's creativity, in	short-term course of Assistant Panelworks Machine Operator can be instrumental in increasing the participation of women in the informal irriture sector. By empowering women with valuable machining skills, the course helps build their confidence and independence in a additionally male-dominated field. It challenges gender stereotypes, breaking down barriers that hinder women's involvement in trades. The burse provides women with access to economic opportunities, as they gain marketable skills for employment or entrepreneurship in the irriture industry. The course enhances the sector's creativity, innovation, and competitiveness by promoting diversity and inclusivity. Overall, is course empowers women, promotes gender equality, and contributes to the growth and development of the informal furniture sector.						
10	Are Greening/ Environment Sustainability Aspects	⊠ Yes □ No							
19.	Covered	Covered under the NOS: EES/N8201 – Follow health safety, and greening practices at t	ne worksite						
		Module Name: Greening practices at the worksite	FFS/N8201 – Follow health, safety, and greening practices at the worksite Module Name: Greening practices at the worksite						
	Is Qualification Suitable to be Offered in	Schools □ Yes ⊠ No Colleges ⊠ Yes □ No							
20.	Schools/Colleges	The course can't be offered to schools due to hazardous nature	The course can't be offered to schools due to hazardous nature of the job role						
		Engineering colleges:							
		This course can be offered to colleges at UG level.							
	Name and Contact	Name: Mr. Rahul Mehta							
21.	Details of Submitting /	Email: ceo@ffsc.in							
21.	Awarding Body SPOC	Contact No.: +91 124 4513900 Website: ffsc.in							
22.	Final Approval Date by NSQC: 31/08/2023	23. Validity Duration: 3 years	24. Next Review Date: 31/08/2026						

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

				Training Duration (Hours)						Assessment Marks						
S. No	NOS/ Module Name	NOS/ Module Code & Version	Core/ Non-Core	NCrF/ NSQF Level	Credit as per NCrF	Th.	Pr.	OJT- Man.	OJT- Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weig. (%)
1	Bridge Module (s)	Version No. 1	Core	4	1	12	18	0	0	30	NA	NA	NA	NA	NA	NA
2	Prepare the work site for machine operations	NOS Code: FFS/N1001 Version No. 1	Core	4	2	12	48	0	0	60	22	48	24	6	100	15
3	Assist in setting up and performing machine operations	NOS Code: FFS/N1002 Version No. 1	Core	4	2	12	48	0	0	60	18	54	22	6	100	20
4	Assist in performing machine maintenance and quality checking	NOS Code: FFS/N1003 Version No. 1	Core	4	2	12	48	0	0	60	18	50	28	4	100	20
5	Follow health, safety, and greening practices at the worksite	NOS Code: FFS/N8201 Version No. 3	Non-Core	3	1	12	18	0	0	30	35	40	20	5	100	10
6	Employability NOS (60 hour)	NOS Code: DGT/VSQ/N0102 Version No. 1	Non-Core	4	2	30	30	0	0	60	20	30	0	0	50	10
Dura	Duration (in Hours) / Total Marks				10	90	210	0	0	300	113	222	94	21	450	75

Electives:

						Training Duration (Hours)					Assessment Marks					
S. No	NOS/ Module Name	NOS/ Module Code & Version	Core/ Non- Core	NCrF/ NSQF Level	Creditas per NCrF	Th.	Pr.	OJT- Man.	OJT- Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weig. (%)
1	Assist in operating pasting and pressing machines	NOS Code: FFS/N1004 Version No. 1	Core	4	4	12	48	60	0	120	24	40	30	6	100	25
2	Assist in operating cutting and sizing machines	NOS Code: FFS/N1005 Version No. 1	Core	4	4	12	48	60	0	120	24	40	30	6	100	25
3	Assist in operating edge band machines	NOS Code: FFS/N1006 Version No. 1	Core	4	4	12	48	60	0	120	24	46	26	4	100	25
4	Assist in operating drilling machines	NOS Code: FFS/N1007 Version No. 1	Core	4	4	12	48	60	0	120	26	36	34	4	100	25
5	Assist in operating routing machines	NOS Code: FFS/N1008 Version No. 1	Core	4	4	12	48	60	0	120	26	36	34	4	100	25
6	Assist in operating veneer cutting and splicing machines	NOS Code: FFS/N1009 Version No. 1	Core	4	4	12	48	60	0	120	24	46	26	4	100	25
Dura	ation (in Hours) / To	otal Marks			24	72	288	360	0	720	148	244	180	28	600	25

Assessment - Minimum Qualifying Percentage

Please specify any one of the following:

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

Minimum Pass Percentage – NOS/Module-wise: <u>70</u>% (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	A trainer should be eligible in any of below mentioned categories:
	in the relevant sector (in years)	 Scenario 1: Graduate Engineering, Architecture, Interior Design, Furniture Manufacturing, Wood Work, Product Design or Any other Discipline with 3 years' experience (Industry) Preferred: 1-year experience (Teaching) Additional Certification related to specialization in furniture or interior design sector (Software like AutoCAD, etc), Communication Skills
		 Scenario 2: Certificate-NSQF a. NSQF Level 4- Assistant Panelworks Machine Operator with 4 years' relevant experience (Industry), e. Required:
		 b. NSQF Level 4.5- Panelworks Machine Operator or above with 3 years' relevant experience (Industry) Required: Work Experience and Recommendation letter from Employer, Certificates of Training from companies Preferable: 1 year experience (Teaching) Additional Certification related to specialization in architecture or interior design sector (Software like AutoCAD, etc.), Communication Skills

		 Scenario 3: Grade 8 Pass Grade 8 Pass with 5 years' experience (Industry) Preferred: 1-year experience (Teaching) Additional Certification related to specialization in furniture or interior design sector (Software like AutoCAD, etc), Communication Skills Scenario 3: Grade 8 Pass Grade 8 Pass with 5 years' experience (Industry) Preferred:
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	 ☑Yes □No The detailed tools list is attached in Annexure 2
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	This qualification is revised based on the NCrF framework with the compulsory module of employability skills. 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)	 An assessor should be eligible in any of below mentioned categories: Scenario 1: Graduate Engineering, Architecture, Interior Design, Furniture Manufacturing, Wood Work, Product Design or Any other Discipline with 3 years' experience (Industry) Preferred: 1-year experience (Teaching) Additional Certification related to specialization in furniture or interior design sector (Software like AutoCAD, etc), Communication Skills
		 Scenario 2: Certificate-NSQF a. NSQF Level 4- Assistant Panelworks Machine Operator with 4 years' relevant experience (Industry), Required: Work Experience and Recommendation letter from Employer, Certificates of Training from companies Preferable: 1 year experience (Teaching)

		 Additional Certification related to specialization in architecture or interior design sector (Software like AutoCAD, etc.), Communication Skills.
		 b. NSQF Level 4.5- Panelworks Machine Operator or above with 3 years' relevant experience (Industry) Required: Work Experience and Recommendation letter from Employer, Certificates of Training from companies
		Preferable:
		 1 year experience (Teaching)
		 Additional Certification related to specialization in architecture or interior design sector (Software like AutoCAD, etc.), Communication Skills
		 Scenario 3: Grade 8 Pass Grade 8 Pass with 5 years' experience (Industry) Preferred:
		 1-year experience (Teaching) Additional Certification related to specialization in furniture or interior design sector (Software like AutoCAD, etc), Communication Skills
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	Graduate (In any field) with minimum 5 years of relevant experience
	relevant sector (in years)	
4.	Assessment Mode	Components might be Online, Offline, or Blended, depending on the location where the evaluation is being carried out.
5.	Tools and Equipment Required for Assessment	⊠ Same as for training □ Yes □ No

Section 5: Evidence of the need for the Qualification

Provide Annexure/Supporting documents name.

1.	Latest Skill Gap Study (not older than 2 years) (Yes/No): No
	FFSC had conducted the research, analysis, and assessment of the skill gaps in the Interiors, Furniture, and Allied sectors. The report was published in
	year 2016 and is valid up to 2025 providing a comprehensive analysis of skill gaps and manpower requirement in specific occupations and job role categories.
	The report can be accessed through Link: <u>Click here</u>

	Along with this, FFSC has also developed its own indigenous LMS portal- FFSC T:AJ. FFSC T:AJ is a one-stop solution for skilled manpower for interiors, furniture, and allied industries. The job portal is customized per the industry's Occupation Map (OM) to facilitate properly aggregating job and apprenticeship opportunities. The portal offers unique features for employers and candidates to provide the ideal solution for demand aggregation and supply matching. It also facilitates the identification of skill gap and requirement in the industry and relevant sectors on periodic intervals. FFSC T:AJ can be assessed through: https://ffsctaj.in/
2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): Yes
	 The following key research documents are available in the public domain: 1. Strategic Roadmap for Furniture Sector of India by IKEA (<u>Link for Report</u>) 2. India – Potential as a Global Furniture Hub by BCG (<u>Link for Report</u>)
3.	Government /Industry initiatives/ requirement (Yes/No): Yes
	The Indian Interiors, Furniture, and Fittings industry is a rapidly growing sector of the country's economy. In 2018, the Government of India recognized the furniture industry as a 'Champion Sector', leading to an increase in its import and exports to promote the sector further. To capitalize on this, the government is creating furniture hubs within certain locations within the country to cater to the local customer base.
	Demand within the industry has increased significantly, with trends going along the lines of stylish fixtures with minimalist designs, amongst other customizations. Improvements in the quality of these goods, its universal accessibility, and upgradation in the industry standards will only further boost the demand within the sector. Organic materials like wood and new, aesthetically more diverse, and adjustable materials like cement, corrugated cardboard, and concrete have also emerged in the Indian market recently to stay in alignment with redesigned trends.
	In order to secure good growth within the sector, there is a need to train and teach traditional carpenters and designers and cater to meeting specific occupational standards to improve the quality of the product the industry provides. Also, to promote future skills within the industry, FFSC has been developing job role-specific standards to skill, upskill and re-skill the workforce in the industry.
	Apart from this, Indigenous Center for Excellence are being set up throughout India to boost entrepreneurship opportunities. This also provides more access to job seekers, especially women, to get wage employment.
4.	Number of Industry validation provided: 30 (Details in Annexure 3)
5.	Estimated nos. of persons to be trained and employed: Refer to Annexure 4
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments:
	The Line ministry concurrence is requested from the respective ministry and the response of the same is awaited.

Section 6: Annexure & Supporting Documents Check List

1.	Annexure: NCrF/NSQF level justification based on NCrF level/NSQF descriptors	Refer to Annexure 1
2.	Annexure: List of tools and equipment relevant for qualification	Refer to Annexure 2
3.	Annexure: Industry Validations Summary	Refer to Annexure 3
4.	Annexure: Training and Employment Details	Refer to Annexure 4
5.	Annexure: Blended Learning	Refer to Annexure 5
6.	Annexure: Detailed Assessment Criteria	Refer to Annexure 6
7.	Annexure: Assessment Strategy	Refer to Annexure 7
8.	Annexure: Multiple Entry-Exit Details	Not Applicable
9.	Annexure: Acronym and Glossary	Refer to Annexure 8
10.	Supporting Document: Model Curriculum	Attached as a separate document in the Qualification Approval Docket
11.	Supporting Document: Career Progression	Attached as a separate document in the Qualification Approval Docket
12.	Supporting Document: Occupational Map	Attached as a separate document in the Qualification Approval Docket
13.	Supporting Document: Assessment SOP	Attached as a separate document in the Qualification Approval Docket

	Annexure	1:	Evidence	of	Level
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NCrF/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCrF/NSQF level descriptor	NCrF/NSQF Level
Professional Theoretical Knowledge/Process	 Following are the few processes wise key requirements of the job role: Interpretation of the job cards, organize and manage the workday. Involvement in the loading and unloading process. Assisting in storage and stacking of panels. Assisting in machine maintenance and quality checking. 	As mentioned in the key requirements, the person carries out the different tasks repetitively on a routine basis. The tasks are predictable in nature. The job requirements match with the NSQF level 4 descriptor. Hence the level is pegged at 4.	4
Professional and Technical Skills/ Expertise	 Following are the few professional knowledge requirements of the job role: About different tools and hardware, terminology, pictorial representation, symbols etc. Basics of preparing and interpreting 2D/ 3D drawings. Correct use of handling tools and materials. Health, safety norms at workplace. Waste disposal procedures and guidelines. Standard process and principle of various operations of the worksite. 	According to the key requirements, the person the person should have knowledge about basic facts, process and principle applied in the job role. The job requirements match with the NSQF level 4 descriptor. Hence, the level is kept as 4.	4
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	 Following are the few professional skills required for the job role: Preparation of the work area. Identification and maintenance of the tools and materials. Identification of machine settings and efficiency. Working at the workplace as per the guideline. Read and understand company policy documents; information displayed at the worksite. Communicate with team members and supervisor. Understands basics of banking. 	The person demonstrates his/ her practical skills, which are routine and repetitive in a narrow range of applications. The job requirements match with the NSQF level 4 descriptor. Therefore, the level is pegged at 4.	4

	• Identify risks that affect the health, safety, and environment for self and others while working in the vicinity.		
Broad Learning Outcomes/Core Skill	 The job role demands that the person should be able to understand and possess the skills such as: Proficient operation of panelworks machinery and equipment. safety protocols and adherence to machine operating procedures. Troubleshoot and resolve minor technical issues related to the machinery. 	algebraic principle, personal financing, and basic understanding of social and natural environments. He/she is able to communicate by writing and speaking.	4
Responsibility	 Few of the key responsibilities: Preparation of the worksite for on-site operations. Assisting in setting up and performing machine operations. Assist in performing machine maintenance and quality checking. 	The person works under instruction and close supervision. The person has some responsibility for his/ her work. The job requirements match with the NSQF level 4 descriptor. Hence the level is kept at 4.	4

Annexure 2: 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	Aprons	Type: Carpenter's apron, Material: Canvas, Color: Brown	20 Nos
2	Ear Plugs	Type: Ear plugs, Noise Reduction Rating: 25 dB	20 Nos
3	Hand Gloves	Type: Safety gloves, Material: Leather, Size: Large	20 Nos
4	Nose Mask	Type: Respirator mask, Filter Type: N95, Size: Medium	20 Nos
5	Safety Shoes	Type: Safety shoes, Toe Protection: Steel, Size: 10	20 Nos
6	Goggles	Type: Safety goggles, Lens: Clear, Anti-fog coating	20 Nos
7	Fire Extinguisher	Type: ABC Fire Extinguisher, Capacity: 5 lbs	1 Nos
8	First Aid Kit	Type: Basic First Aid Kit, Contents: Bandages, Antiseptic	1 Nos
9	Carpentry Pencil	Type: Carpenter's pencil, Lead: HB	20 Nos
10	Notebook	Type: Spiral-bound notebook, Size: A5	20 Nos
11	Measurement Tape 5M	Type: Measurement tape, Length: 5 meters, Units: Metric	20 Nos
12	Marking Knife	Type: Marking knife, Blade Material: Stainless steel	4 Nos
13	Try Square- 12"	Type: Try square, Size: 12 inches, Material: Steel	4 Nos
14	Half Round File 10" with Handle	Type: Half round file, Length: 10 inches, Cut: Bastard	4 Nos
15	Pasting Machine	Type: Pasting machine, Capacity: 500 sheets per hour	1 Nos
16	Pressing Machine	Type: Pressing machine, Pressure: Adjustable	1 Nos
17	Manual Glue Applicator	Type: Manual glue applicator, Capacity: 250 ml	1 Nos
18	Adhesive for Pasting Machine	Type: Adhesive for pasting machine, Type: PVA	10 Kg
19	Glue Scraper	Type: Glue scraper, Material: Plastic	1 Nos
20	Glue Mixer	Type: Glue mixer, Power: 50W, Speed: Adjustable	1 Nos
21	Panel Saw Machine	Type: Panel saw machine, Blade Size: 12 inches	1 Nos
22	Beam Saw Machine	Type: Beam saw machine, Cutting Capacity: 4 inches	1 Nos
23	Edge Banding Machine	Type: Edge banding machine, Feed Speed: 5 m/min	1 Nos
24	Edge Band Adhesive	Type: Edge band adhesive, Type: Hot melt	10 Kg
25	Drilling Machine	Type: Drilling machine, Power: 800W, Chuck Size: 10mm	1 Nos
26	Routing Machine	Type: Routing machine, Power: 1200W, Speed: 15,000 RPM	1 Nos
27	Machine Drill Bit Set	Type: Set of drill bits for machine drill, Size: 1-10mm	1 Nos
28	Machine Router Bit Set	Type: Set of router bits for routing machine, Type: Carbide	1 Nos

29	Veneer Cutting Machine	Type: Veneer cutting machine, Blade Type: Rotary	1 Nos
30	Veneer Splicing Machine	Type: Veneer splicing machine, Capacity: 2000 sheets/hour	1 Nos
31	Adhesive Roll for Veneer Splicing Machine	Type: Adhesive roll for veneer splicing machine, Type: UF	2 Rolls
32	Panel Stacking and Handling Equipment	Type: Panel stacking equipment, Capacity: 100 panels	1 Nos
33	Worksite Cleaning and Maintenance Equipment	Type: Cleaning equipment, Includes: Broom, Dustpan	1 Nos
34	Dust Extractor	Type: Dust extractor, Power: 1200W, Airflow: 500 CFM	3 Nos
35	Storage Cabinet	Type: Storage cabinet, Material: Steel, Shelves: 4	1 Nos
36	Waste Collection Bins	Type: Waste collection bins, Capacity: 20 liters	1 Set
37	Sharpening Stone	Type: Sharpening stone, Grit: 1000/6000	1 Nos

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 3: Industry Validations Summary

No. of Validations: 30

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID
1	Aryamman Interior Solution Pvt Ltd	Vipuul Mistry	Head - HR	Mumbai	9820439351	hr@aryamman.in
2	Magppie Living Pvt. Ltd.	Mr. Deepak Gupta	Director Operations	Haryana	9810098982	deepak@magppie.com
3	PrimeDecor Furniture & Interiors LLP	Ms. Priyanka Pavithran	Designated Partner	Kerala	8547534628	prima_pavi@yahoo.com priyankapavithran92@gmail.com
4	Belinda Sofas	Mr. Rajeendran. TR	Managing Director	Kerala	9747547462	rejipvm@gmail.com
5	Elegant Interior & Modular Kitchen Pvt. Ltd.	Ranjith K	Managing Director	Kerala	9947208000	elegantinterior79@gmail.com
6	Omega Innovative Industries	Mr. Anil Kumar	Managing Partner	Kerala	7593887604	hyfurn@gmail.com
7	Archistocc Designs Pvt. Ltd.	Mr. Chander Tarachand Devraj	Director	Gujarat	9033011559	chander@archistocc.com
8	Shree Ram Wooden Industries Pvt. Ltd.	Mr. Vishwas Sonigara	Managing Director	Gujarat	9825084241	vishwas@vittaazio.com
9	Narsi & Associates	Mr. Jagdish Kularia	Director	Mumbai	8898855555	jagdishkularia@narsi.in
10	Narsi Interior Infrastructures Pvt. Ltd.	Mr. Narsi Kularia	Managing Director	Mumbai	9821052087	narsikularia@narsi.in
11	Greenply Industries Ltd.	Mr. Rajesh Mittal	Chairman & Managing Director	West Bengal	9999627822	rajeshmittal@greenply.com
12	ELBA Interiors	Mr. Prasanth Kurian	Director	Kerala	9847708649	elba@elbatraders.com
13	Woodtech consultant pvt Ltd	Mr. Gopi T	Managing Director	Karnataka	9448278398	gopi@woodtech.in
14	The Cadia furn	Neethu Raphael	Manager	Kerala	9072100010	thecadiafurn@gmail.com
15	KALAIMAGAL INDUSTRY	VIJAY KUMAR	Manager	Kerala	8946055915	Svfurnituresalam@gmail.com

1	Kamry innovations Pvt					
16	Ltd	Shihab	HR- Manager	Kerala	99953775992	Kawryinnovations@gmail.com
17	Sri Velmurugan Furniture	RAJENDRAN G	GENERAL MANAGER	Kerala	7373014458	Svfurnituresalem@gmail.com
18	VIHAS INTERIORS	T SUJAIVEL BALAJI	MANAGING DIRECTOR	Kerala	7373014462	Vihasfurnitures@gmail.com
19	A one Furniture	P. ALI	Proprietor	Kerala	9446654914	aonefurniturekannur@gmail.com
20	AL BAITH FURNITURE	Abdul Azeez	MANAGING DIRECTOR	Kerala	9656165997	albaithfurnituremall@gmail.com
21	Casa Design	Afreen	MANAGING DIRECTOR	Kerala	7356772772	casadesignind@gmail.com
22	Hi-style products	SEENIVASAN. D. G	HR- Manager	Kerala	9677310717	hr@vickys.co.in
23	Modo Furniture Factory. LLP	Fayyas k	MANAGING DIRECTOR	Kerala	99950 77520	modofurniturefactory@gmail.com
24	Radheshyam Intex Products Pvt. Ltd.	Bikash Poddar	Director	Bengaluru	9845201519	info@radheshyamintex.com
25	Woodec Wood works	Shaji MK		Kerala	9447902529	woodecwoodworks@gmail.com
26	Taj Sofas	Abdul Salam	Managing Partner	Kerala	9447699508	tajsofa896@gmail.com
27	Caple Industrial Solutions	Zenith Thomas	Regional Manager -North & East	Mumbai	9599487490	zenith@caple.in
28	Niram India Construction Pvt Ltd	Deepak Singh Bisht	Asst Manager	Delhi	9910486543	deepakbisht@nirmanidia.in
29	ANJ Turnkey Projects Pvt LTd	Nehal Mehta	Finance Head	Mumbai	9819338101	nehal@anj.co.in
30	Shapez N Designs (The Plank)	Ms. Hemalatha G.	Proprietor	Tamil Nadu	9094044888	hema@theplank.in

Annexure 4: 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	
23-24	6000	4000	0	0	0	0	
24-25	10000	6500	100	100	0	0	
25-26	10000	6500	100	100	0	0	

Languages in which Content is available:

English and Hindi

Annexure 5: Blended Learning

Blended Learning Estimated Ratio & Recommended Tools:

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

S. No.	Select the Components of the Qualification	List Recommended Tools – for all Selected Components	Offline: Online Ratio
1	⊠Theory/ Lectures - Imparting theoretical and conceptual knowledge	 eBooks/Textbooks/e-content Presentations Classroom Aids Journals Assessments & Quizzing Tools Flashcards Games or quizzes Collaborative/Group Projects Video Tutorials & Webinars Video Conferencing Software Tracking & Reporting Platforms 	60:40
2	⊠Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners	 Presentations Group Discussions Case Studies/ Projects Games or quizzes Learning Paths Video Tutorials & Webinars Video Conferencing Software Tracking & Reporting Platforms Simulators/AR Tools 	50:50
3	Showing Practical Demonstrations to the learners	 Augmented Reality Applications Games or quizzes Interactive Whiteboards Collaboration Tools Online Tutorials & Interactive Simulations Digital Simulations 	60:40
4	⊠Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training	 Virtual Labs Gamification Digital Twins Collaborative Authoring Platforms Simulators/AR Tools Digital Simulations 	80:20

		Online Course Platforms/LMS	
5	⊠Tutorials/ Assignments/ Drill/ Practice	 Online Course Platforms/LMS Simulators/AR Tools Online Tutorials & Interactive Simulations Screen Recording & Presentation Software Collaboration Tools Assessments & Quizzing Tools 	70:30
6	☑Proctored Monitoring/ Assessment/ Evaluation/ Examinations	 Online assessment/quizzing software Biometric authentication tools Remote exam locking/proctoring software Hackathons 	30:70
7	⊠On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training	 Case Studies/Projects Simulators/AR Tools Task Management Tools Online Collaboration Tools 	90:10

Annexure 6: 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/N1001: Prepare the	Interpret job tasks and responsibilities	8	12	6	0
work site for machine operations	PC1. interpret the scope of work as per the job card and plan resources.	2	4	2	0
	PC2. instruct and guide the multipurpose assistant for interpreting the job card and work as per instructions.	2	4	0	0
	PC3 .ensure timely filling and daily submission of job cards to the supervisor.	2	0	2	0
	PC4 .assist in the preparation and maintenance of the documents related to maintenance, operation, and quality check.	2	4	2	0
	Assist in machine operation planning	8	22	14	4
	PC5. interpret the technical drawings, part lists, cuttings lists, material lists, tools, equipment, etc., for the required machining operation	2	6	4	0
	PC6 .assist in identifying suitable machining methods, tools, equipment, and consumables for a given machining task.	2	6	4	1
	PC7 .identify different types of machines programs, processes, and their functions based on machining requirement	2	6	4	1
	PC8. organize and maintain all the necessary tools, materials, and components for the operation as per given specifications and standard operating procedures	2	4	0	1
	PC9. ensure availability of work health and safety (WHS) requirements, including personal protective equipment, during operations.	0	0	2	1
	Clean, maintain, and organize the worksite	6	14	4	2
	PC10.perform the cleaning and maintenance of the worksite at regular intervals	2	6	4	1
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	PC11. perform the arrangement & stacking of the panels before and after the machine operation	2	4	0	1
	PC12.assist in verifying materials received for the machine operation	2	4	0	0
	NOS Total	22	48	24	6
FFS/N1002: Assist in	Assist in machine initiation operation	8	36	10	3
setting up and performing machine operations	PC1 .check the safety equipment, including emergency stops, gauges, guards and controls, before machine initiation	2	6	0	0
	PC2. assist in performing adjustments to machine tools as per job work requirements (like blades, bits, edge bands, adhesives, cutters, table/bed etc.)	2	6	0	1
	PC3 .check and maintain the functioning of fundamental systems such as compressed air pressure, dust collector, stabilizers, etc.	2	6	4	1
	PC4 .perform the machine initiation operation in accordance with manufacturer instructions	0	6	4	0
	PC5. feed the appropriate consumables (like glue, adhesives, etc.) required for machine operation as per the supervisor's instructions	0	6	2	1
	PC6 .assist in performing a trial run to evaluate operation, accuracy, and quality and make necessary adjustments	2	6	0	0
	Handling the job work during machine operation	6	12	8	3
	PC7 .perform loading, unloading, and handling of the job work on/from the machine table	2	6	4	1
	PC8 .ensure the proper functioning of the handling equipment for material movement	2	0	4	1
	PC9 .perform measurement and marking operations based on job work specifications	2	6	0	1
	Assist in performing machine operation	4	6	4	0
	PC10 .assist in performing the operation in accordance with its designed capacity and purpose, and to manufacturer recommendations	2	0	2	0
	PC11.ensure material storage and movement after the operation	2	6	2	0
	NOS Total	18	54	22	6

FFS/N1003: Assist in	Perform cleaning operations	2	10	4	0
performing machine maintenance and quality checking	PC1.perform internal machine cleaning at regular intervals	0	6	4	0
	PC2. collect and organize the waste/ offcut material in the designated bay	2	4	0	0
	Conduct maintenance of machines	6	10	8	2
	PC3 .interpret safety protocols and conduct comprehensive checks to ensure the machine's proper working condition.	2	0	2	0
	PC4. assist in identifying and resolving minor machine malfunctions or issues during operation	2	0	2	1
	PC5 .perform routine maintenance tasks, such as cleaning and lubrication, as per the maintenance schedule	2	4	0	1
	PC6. report any major machine malfunctions or maintenance requirements to the supervisor	0	6	4	0
	Conduct tools and material maintenance	6	16	8	2
	PC7. assist in checking and re-sharpening the tools and equipment (like bits, saws, etc.) at regular intervals	2	6	4	1
	PC8. check wear and tear of the machine consumables after operations at regular intervals such as edge bands, veneers, laminate, etc, as per standard required quality	2	4	0	1
	PC9. store and maintain the tools and materials as per manufacturer instructions	2	6	4	0
	Assist in performing quality check	4	14	8	0
	PC10. assist in inspecting the output for quality defects, at regular intervals	2	6	4	0
	PC11. identify any deviations from the desired specifications and take corrective actions.	2	4	2	0
	PC12.report any quality issues or non-conformities to the supervisor	0	4	2	0
	NOS Total	18	50	28	4
FFS/N8201:	Maintain cleanliness of the worksite	3	4	3	2
Follow health, safety, and	PC1. ensure adequate stock of cleaning materials and consumables	1	2	0	1
greening practices at the worksite	PC2. identify and report poor organizational practices concerning hygiene, food handling, cleaning	1	0	0	1
	PC3. ensure that the trash cans or waste collection points are cleared every day	1	2	3	0
	Follow health and safety procedures	5	6	4	1

PC4. Use appropriate personal protective equipment compatible with the work and compliant to relevant Occupational Health and Safety (OHS) guidelines: masks, safety glasses, head protection, ear muffs, safety footwear, gloves, aprons, etc	3	3	4	0
PC5. use emergency equipment following manufacturers' specifications as per requirement	2	3	0	1
Maintain personal hygiene	4	4	5	0
PC6. follow the dress code of the worksite	2	2	3	0
PC7. Wash hands regularly using suggested materials such as soap, one-use disposable tissue, warm water, etc.	2	2	2	0
Follow precautionary measures to avoid work hazards	12	19	0	2
PC8. follow the displayed safety signs at the worksite	3	2	0	1
PC9. Undertake the safety measures and checks while handling any electrically powered tools and equipment, etc.	3	7	0	1
PC10. ensure the usage of harmful chemicals inside the work area as per the specified guidelines only	1	3	0	0
PC11. ensure safe handling and disposal of waste and debris	3	3	0	0
PC12. undertake correct ways while lifting or movement of the heavy material from one place to another	2	4	0	0
Ensure material conservation and optimization of resources	11	7	8	0
PC13. ensure optimal material utilization in the specific processes	3	2	0	0
PC14. implement the suggested ways to conserve and re-use water	3	2	2	0
PC15. ensure to keep the electrical appliances in OFF position when not in use	2	0	3	0
PC16. carry out routine cleaning of tools, machines, and equipment as per instruction	3	3	3	0
NOS Total	35	40	20	5

DGT/VSQ/N0102:	Introduction to Employability Skills	1	1	0	0
Employability Skills (60 Hours)	PC1. identify employability skills required for jobs in various industries	0	0	0	0
	PC2. identify and explore learning and employability portals	0	0	0	0
	Constitutional values – Citizenship	1	1	0	0
	PC3. recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc	0	0	0	0
	PC4. follow environmentally sustainable practices	0	0	0	0
	Becoming a Professional in the 21st Century	2	4	0	0
	PC5. recognize the significance of 21st Century Skills for employment	0	0	0	0
	PC6. practice the 21st Century Skills such as Self- Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life	0	0	0	0
	Basic English Skills	2	6	0	0
	PC7. use basic English for everyday conversation in different contexts, in person and over the telephone	0	0	0	0
	PC8. read and understand routine information, notes, instructions, mails, letters etc. written in English	0	0	0	0
	PC9. write short messages, notes, letters, emails etc. in English	0	0	0	0
	Career Development & Goal Setting	1	2	0	0
	PC10. understand the difference between job and career	0	0	0	0

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	PC24. develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion	0	0	0	0
	PC25. identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity	0	0	0	0
	Customer Service	1	2	0	0
	PC26. identify different types of customers	0	0	0	0
	PC27. identify and respond to customer				
	requests and needs in a professional manner	0	0	0	0
	PC28. follow appropriate hygiene and grooming standards	0	0	0	0
	Getting ready for apprenticeship & Jobs	2	3	0	0
	PC29. create a professional Curriculum vitae (Résumé)	0	0	0	0
	PC30. search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively	0	0	0	0
	PC31. apply to identified job openings using offline /online methods as per requirement	0	0	0	0
	PC32. answer questions politely, with clarity and confidence, during recruitment and selection	0	0	0	0
	PC33. identify apprenticeship opportunities and register for it as per guidelines and requirements	0	0	0	0
	NOS Total	20	30	0	0
FFS/N1004: Assist in operating pasting and	Assist in operating pasting and pressing machines	6	10	8	3
pressing machines	PC1 .perform stacking and storage of materials and workpieces for machine operation at the designated machine stations	2	4	0	1
	PC2 .check the quality of job work received for the pasting/pressing machine operation	0	6	4	1
	PC3 .assist in the setup and preparation of pasting/pressing machines according to job requirements.	2	0	2	0

PC4 .collaborate with the machine operator in adjusting machine settings, such as temperature, time, and pressure.	2	0	2	1
Assist in pasting operation	4	12	10	1
PC5 .assist in applying the appropriate adhesive or glue to the workpieces using the designated equipment and techniques.	2	6	4	1
PC6. ensure the even and consistent distribution of the adhesive to achieve proper bonding between the materials.	2	0	2	0
PC7. assist in aligning and positioning the materials accurately to ensure proper joining and prevent misalignment or gaps.	0	6	4	0
Assist in pasting/pressing operation	6	10	8	0
PC8. support in handling and loading of the workpieces onto the machine accurately and efficiently.	0	6	4	0
PC9 .assist in adjusting the pasting/pressing parameters, such as pressure, thickness, and duration, etc. based on the materials and adhesive being used.	2	4	0	0
PC10 .assist the operator in following standard operating procedures and safety guidelines for machine operation.	2	0	2	0
PC11 .assist in monitoring pasting/pressing operations to discover and communicate any irregularities or defects to the operator.	2	0	2	0
Maintain workspace and equipment	4	4	2	1
PC12. assist the operator in cleaning and maintaining the pasting/pressing machine and its parts (upper and lower plates, roller, etc.).	2	4	0	1
PC13 .organize and manage the workspace, ensuring proper storage of panels and disposal of waste.	2	0	2	0
Quality control and inspection	4	4	2	1
PC14.assist in inspecting the pasted/pressed materials for defects,	2	4	0	1

	PC15 .maintain proper documentation of manufacturing specifications and quality control inspections for the pasting/pressing process.	2	0	2	0
	NOS Total	24	40	30	6
FFS/N1005: Assist in	Assist in setting up worksite	6	8	8	2
operating cutting and sizing machines	PC1. perform stacking and storage of materials and workpieces for machine operation at the designated machine stations	2	4	0	1
	PC2. check the quality of job work received for the cutting/sizing operation	2	4	4	1
	PC3. assist in setting up cutting/sizing machines, including blade height, alignment, mitre angles, etc. to achieve accurate and consistent results.	2	0	4	0
	Assist in cutting/sizing operation	10	20	16	2
	PC4. support in handling and loading of the workpieces onto the machine accurately and efficiently.	2	4	2	0
	PC5 .support in positioning and securing the materials on the cutting/sizing machines, utilizing clamps, jigs, or other appropriate methods.	0	4	2	0
	PC6 .assist in adjusting the machines during the cutting/sizing process to ensure consistent quality and dimensional accuracy.	2	4	0	0
	PC7. assist in performing measurement and marking on the job work for cutting/sizing operation	2	4	2	1
	PC8. assist the operator in following standard operating procedures and safety guidelines for machine operation.	2	0	4	0
	PC9. apply printed labels on finished panels for ease in tracking and identification	0	4	2	0
	PC10. assist in monitoring cutting/sizing operations to discover and communicate any irregularities or defects to the operator.	2	0	4	1
	Maintain workspace and equipment	4	8	2	1
	PC11. assist the operator in cleaning and maintaining the cutting/sizing machine and its parts (machine bed, blade chamber, etc.).	2	4	0	1

	PC12. organize and manage the workspace, ensuring proper storage of panels and disposal of waste.	2	4	2	0
	Quality control and inspection	4	4	4	1
	PC13. assist in inspecting the cut and sized materials for dimensional accuracy, cleanliness, and quality, ensuring they meet the required specifications.	2	4	0	1
	PC14. maintain proper documentation of manufacturing specifications and quality control inspections for the cutting/sizing process.	2	0	4	0
	NOS Total	24	40	30	6
FFS/N1006: Assist in	Assist in setting up worksite	6	12	6	3
operating edge band machines	PC1. perform stacking and storage of materials and workpieces for machine operation at the designated machine stations	2	4	0	1
	PC2. check the quality of job work received for the edge banding machine operation	2	4	2	1
	PC3. assist in the alignment and installation of edge banding materials, tools, and adhesives	0	4	2	0
	PC4. collaborate with the machine operator in adjusting machine settings, such as temperature, feed rate, and pressure.	2	0	2	1
	Assist in edge banding operation	10	26	16	0
	PC5 .assist in configuring the edge banding machine depending on project requirements such as adhesive type, panel thickness, edge band thickness, etc.	2	4	0	0
	PC6. assist in selecting or implementing the appropriate machine program on the workpiece for the edge banding operation	0	6	4	0
	PC7 .assist the operator in following standard operating procedures and safety guidelines for machine operation.	2	0	2	0
	PC8. assist the machine operator in positioning and feeding panel materials into the conveyor of the edge banding machine.	0	6	4	0

	PC9. assist in ensuring proper alignment and placement of the edge band material during feeding.	2	4	0	0
	PC10. assist in identifying the machine functions and carry out the remaining functions either manually or using another machine.	2	6	4	0
	PC11. assist in monitoring edge band operations to discover and communicate any irregularities or defects to the operator.	2	0	2	0
	Maintain workspace and equipment	4	4	2	1
	PC12. assist the operator in cleaning and maintaining the edge banding machine and its parts (glue pot, conveyor, scraping unit, etc.).	2	4	0	1
	PC13. organize and manage the workspace, ensuring proper storage of edge bands and disposal of waste.	2	0	2	0
	Quality control and inspection	4	4	2	0
	PC14 .assist in inspecting the edge banding results for adherence, smoothness, and overall quality.	2	4	0	0
	PC15. maintain proper documentation of manufacturing specifications and quality control inspections for edge banding process.	2	0	2	0
	NOS Total	24	46	26	4
FFS/N1007: Assist in	Assist in setting up worksite	6	10	6	3
operating drilling machines	PC1. perform stacking and storage of materials and workpieces for machine operation at the designated machine stations	2	6	0	1
	PC2.received for the drilling machine operation	2	4	2	1
	PC3 .collaborate with the machine operator to set up the drilling machine, including adjusting machine controls, installing drilling tools, and ensuring proper alignment.	2	0	4	1
	Assist in drilling operation	10	14	16	0
	PC4 .support the machine operator in loading and unloading workpieces onto and off the machine table or holding fixtures.	2	4	2	0

	PC5. collaborate with the machine operator to feed workpieces through				
	the drilling operations, maintaining a steady and controlled pace.	2	0	4	0
	PC6. assist in collecting and organizing the drilled workpieces, ensuring they are labelled or sorted according to project requirements.	0	4	2	0
	PC7. assist the operator in following standard operating procedures and safety guidelines for machine operation.	2	0	4	0
	PC8. assist in adjusting the machines during the drilling process to ensure consistent quality and dimensional accuracy.	2	6	0	0
	PC9. assist in monitoring drilling operations to discover and communicate any irregularities or defects to the operator.	2	0	4	0
	Maintain workspace and equipment	6	6	8	1
	PC10. assist in cleaning and maintaining the drilling machine and its parts (machine bed, drill chamber, etc.)	2	6	0	1
	PC11. collaborate in the maintenance of drilling tools by helping to clean, sharpen, or replace them as instructed by the machine operator.	2	0	4	0
	PC12. organize and manage the workspace, ensuring proper storage of drilling and disposal of waste.	2	0	4	0
	Quality control and inspection	4	6	4	0
	PC13. assist in inspecting the drilled workpieces for any visible defects, irregularities, or incomplete drills	2	6	0	0
	PC14 .maintain proper documentation of manufacturing specifications and quality control inspections for drilling process.	2	0	4	0
	NOS Total	26	36	34	4
FFS/N1008: Assist in	Assist in setting up worksite	6	10	6	3
operating routing machines	PC1. perform stacking and storage of materials and workpieces for machine operation at the designated machine stations	2	6	0	1

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PC2. check the quality of job work received for the routing machine operation	2	4	2	1
PC3 .collaborate with the machine operator to set up the routing machine, including adjusting machine controls, installing routing tools, and ensuring proper alignment.	2	0	4	1
Assist in routing operation	10	14	16	0
PC4. support the machine operator in loading and unloading workpieces onto and off the machine table or holding fixtures.	2	4	2	0
PC5 .collaborate with the machine operator to feed workpieces through the routing operations, maintaining a steady and controlled pace.	2	0	4	0
PC6 .assist in collecting and organizing the routed workpieces, ensuring they are labelled or sorted according to project requirements.	0	4	2	0
PC7. assist the operator in following standard operating procedures and safety guidelines for machine operation.	2	0	4	0
PC8 .assist in adjusting the machines during the routing process to ensure consistent quality and dimensional accuracy.	2	6	0	0
PC9. assist in monitoring routing operations to discover and communicate any irregularities or defects to the operator.	2	0	4	0
Maintain workspace and equipment	6	6	8	1
PC10. assist in cleaning and maintaining the routing machine and its parts (machine bed, drilling & routing chamber, etc.)	2	6	0	1
PC11. collaborate in the maintenance of routing tools by helping to clean, sharpen, or replace them as instructed by the machine operator.	2	0	4	0
PC12. organize and manage the workspace, ensuring proper storage of routing and disposal of waste.	2	0	4	0
Quality control and inspection	4	6	4	0
PC13 .assist in inspecting the routed workpieces for any visible defects, irregularities, or incomplete cuts	2	6	0	0

	PC14. maintain proper documentation of manufacturing specifications and quality control inspections for routing process.	2	0	4	0
	NOS Total	26	36	34	4
FFS/N1009: Assist in	Assist in setting up worksite	6	16	10	2
operating veneer cutting and splicing machines	PC1. perform stacking and storage of materials and workpieces for machine operation at the designated machine stations	2	6	0	1
	PC2.assist in checking the quality of veneer sheets received for the machine operation	2	4	2	1
	PC3. verify the alignment and installation of tools, adhesives, and veneer materials under the guidance of the machine operator.	0	6	4	0
	PC4. assist in setting up veneer cutting/splicing machines for time, pressure, thickness, etc., according to job requirements.	2	0	4	0
	Assist in veneer cutting/ splicing operation	8	18	8	0
	PC5 .support the machine operator in loading and unloading workpieces onto and off the machine table or holding fixtures.	2	4	2	0
	PC6. collaborate with the machine operator to feed workpieces through the veneer cutting/ splicing machine, maintaining a steady and controlled pace.	2	4	2	0
	PC7. support the machine operator in applying adhesive and cutting veneer materials accurately and consistently.	2	6	0	0
	PC8.assist in tracing the desired shape and size on the veneer	0	4	2	0
	PC9. assist in monitoring machine operations to discover and communicate any irregularities or defects to the operator.	2	0	2	0
	Maintain workspace and equipment	6	6	6	1
	PC10 .assist in cleaning and maintaining the veneer cutting/splicing machine and its parts by removing debris and residues	2	6	0	1

Grand Total	261	466	274	49
NOS Total	24	46	26	4
PC14. maintain proper documentation of manufacturing specifications and quality control inspections for veneer preparation.	2	0	2	0
PC13. assist in inspecting the prepared veneer for accuracy, smoothness, and overall quality, ensuring they meet the required specifications.	2	6	0	1
Quality control and inspection	4	6	2	1
PC12 .organize and manage the workspace, ensuring proper storage of veneer sheets and disposal of waste.	2	0	2	0
PC11 .collaborate in the maintenance of cutting tools by helping to clean, sharpen, or replace them as instructed by the machine operator.	2	0	4	0

Annexure 7: 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.

At FFSC, we believe in gauging a candidate's performance, a holistic approach for Assessment is essential. We have devised a multi-tier process to keep track of candidate's overall progress at various stages. While a few techniques are imbibed as part of the training delivery program, others are explicit testing methods. These are:

1. Internal (Preferred)

- a. Trainer Led Assessment
- b. Master Trainer/ Program Mentor Led Assessment

2. External

- a. Assessment Partners/ Freelance Assessors (Mandatory)
- b. Industry (Preferred)

1. Internal (Preferred)

A. Trainer Led Assessment:

As part of the Training Delivery Program, various tests and projects are designed regularly to gauge the candidate's progress during the training program. These are a mix of Theory & practical, individual, and group activities.

Trainers will be provided specific training under the ToT programs to conduct these assessments. A report of the same will be submitted to the assigned Master Trainer/ Program Mentor.

B. Master Trainer/ Program Mentor Led Assessment:

Every trainer/ batch should be connected with a Master Trainer/ Program Mentor, who will keep a check on the progress of the batch. The Trainer can consult the Master Trainer/ Program Mentor regarding training delivery or conducting periodic assessments.

Master Trainer/ Program Mentor may conduct their session to assess the candidates' progress, using the means deemed suitable and feasible.

2. External

A. Assessment Partners/ Freelance Assessors:

Assessment Partners shall mandatorily conduct an external assessment via ToA certified Assessors or ToA certified Freelance Assessors. There are three critical stages of any assessment activity – Pre-Assessment, During Assessment, and Post Assessment. The defined system for conducting the Assessment shall be followed at each stage.

FFSC Training & Assessment Team or any other assigned authority by FFSC may conduct surprise or planned visits and checks from a quality assurance and monitoring perspective.

The requirements and details of each stage are highlighted below:

1. Pre-Assessment:

- a. Assessment Partner/ Assessor/ Freelance Assessor Validation
- b. Training Centre Check for Assessment Setup/ Infra
- c. Question Papers submission by Assessment Partner/ Freelance Assessor to FFSC
- d. FFSC to validate and approve the Question papers in line with NOS and PC.
- e. FFSC Affiliation and Project Assessment Approval
- f. Centre ready for Assessment intimation by Training Partner or by the assigned Neutral Assessment Centre

2. During Assessment (on the Assessment Day): The Assessment can be conducted in offline, online, or hybrid format depending on the feasibility and approvals from FFSC. Under either process, the below guidelines are essential to be compiled:

- a. Check the availability of the Lab Equipment for the particular Job Role as per the mode of conducting the Assessment.
- b. Candidate Validation: Confirm the Aadhar Card details of candidates
- c. Check the duration of the training
- d. Check the Assessment Start and End time to be as specified in documents
- e. Assessor/ Freelance Assessor must follow the assessment guidelines at all times.
- f. Intimation to FFSC Training & Assessment Monitoring Team for Assessment Quality Assurance checks.
- g. Ensure evidence of conducting Assessment gathered as per FFSC protocol:
 - i. Time-stamped & geotagged reporting of the Assessor from assessment location
 - ii. Centre photographs with signboards and scheme-specific branding

- iii. Biometric or manual attendance sheet (stamped by T.P.) of the trainees during the training period
- iv. Time-stamped & geotagged assessment (Theory + Viva + Practical) photographs & videos
- h. Required documentation for submissions to the FFSC

3. Post Assessment:

- a. Timely submission of the assessment documentation and feedback to FFSC
- b. Hard copies of the documents are stored
- c. Soft copies of the documents & photographs of the Assessment are uploaded/accessed from Cloud Storage
- d. Soft copies of the documents & photographs of the Assessment stored in the Hard Drives
- e. Any other compliance requirement as defined by FFSC

B. Industry Partner:

FFSC may engage the Industry Partners and the Subject Matter Experts to conduct the Assessment of the candidates at various stages during the training program.

Annexure 8: Acronym and Glossary

Acronym	
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

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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 organization	
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	