

APPRENTICESHIP CURRICULUM (OPTIONAL TRADE)

Furniture and Fittings

Multipurpose Assistant- Furniture Production and Installation:

Wood Workshop

Course Code: C0032400011

NAPS Non-NAPS

NSQF Level: 3



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Course Details

1.	Course Name	Multipurpose Assistant- Furniture Production and Installation: Wood Workshop										
2.	Course Code	CO032400011										
3.	Apprenticeship Training Duration: (2 to 4 weeks of BT is embedded in this duration as per the requirement of the establishment)	Months: 6 Months										
	Remarks											
4.	Credit	20										
5.	NSQF Level (Mandatory for NAPS)	3	NSQC Approval Date: 31 st August 2023									
6.	Related NSQF aligned qualification details	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">S. No.</th> <th style="text-align: center;">QP/ Qualification/ NOS Name (As applicable)</th> <th style="text-align: center;">QP/ NOS Code & Version</th> <th style="text-align: center;">NQR Code</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Multipurpose Assistant- Furniture Production and Installation: Wood Workshop</td> <td style="text-align: center;">FFS/Q0901- SI001 Version: 1.0</td> <td style="text-align: center;">QG-03-WC-00819-2023-V1-FFSC</td> </tr> </tbody> </table>			S. No.	QP/ Qualification/ NOS Name (As applicable)	QP/ NOS Code & Version	NQR Code	1	Multipurpose Assistant- Furniture Production and Installation: Wood Workshop	FFS/Q0901- SI001 Version: 1.0	QG-03-WC-00819-2023-V1-FFSC
		S. No.	QP/ Qualification/ NOS Name (As applicable)	QP/ NOS Code & Version	NQR Code							
1	Multipurpose Assistant- Furniture Production and Installation: Wood Workshop	FFS/Q0901- SI001 Version: 1.0	QG-03-WC-00819-2023-V1-FFSC									
7.	Brief Job Role Description	<p>Multipurpose Assistant in Furniture Production and Installation is a beginner who assists in interpreting work dockets, conducting work site recce, compiling lists of required materials, tools, and equipment, and setting up the work area as per operational needs. This individual may choose a specialization from a range of options, such as store/warehouse operations, woodworking, machine shop operations, furniture finishing, upholstery, furniture packaging, or furniture installation operations. The role involves supporting the smooth execution of tasks and maintaining an organized work environment.</p>										
8.	NCO-2015 Code & Occupation (Access the NCO 2015 volumes from: https://labour.gov.in/organizationsofmole/directorate-general-employment-training-dget)	NCO-2015/7115.9900										

<p>9.</p>	<p>Minimum Eligibility Criteria <i>(Educational and/ or Technical Qualification)</i></p>	<p>10th Class with NA of experience OR 8th grade pass with 1 year of (NTC/ NAC) after 8th with NA of experience OR 8th grade pass and pursuing continuous schooling with NA of experience OR 9th grade pass (Pursuing continuous schooling in regular school) with NA of experience OR 9th grade pass with 1 Year of experience Relevant Experience OR 8th grade pass with 2 Years of experience Relevant Experience OR 5th grade pass with 5 Years of experience Relevant Experience OR Previous relevant Qualification of NSQF Level (Foundation course on Design-Build-Install at Level-2) with 3 Years of experience Relevant Experience</p>										
<p>10.</p>	<p>Entry Age for Apprenticeship</p>	<p><i>14 years</i></p>										
<p>11.</p>	<p>Any Licensing Requirements <i>(wherever applicable)</i></p>	<p>N.A.</p>										
<p>12.</p>	<p>Is the Job Role amenable to Persons with Disability</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, check the applicable type of Disability</p> <table border="0" style="width: 100%;"> <tr> <td><input type="checkbox"/> Locomotor Disability</td> <td><input type="checkbox"/> Leprosy Cured Person</td> <td><input type="checkbox"/> Cerebral Palsy</td> <td><input type="checkbox"/> Dwarfism</td> <td><input type="checkbox"/> Muscular Dystrophy</td> </tr> <tr> <td><input checked="" type="checkbox"/> Acid Attack Victims</td> <td><input type="checkbox"/> Blindness</td> <td><input type="checkbox"/> Low Vision</td> <td><input type="checkbox"/> Deaf</td> <td><input type="checkbox"/> Hard of Hearing</td> </tr> </table>	<input type="checkbox"/> Locomotor Disability	<input type="checkbox"/> Leprosy Cured Person	<input type="checkbox"/> Cerebral Palsy	<input type="checkbox"/> Dwarfism	<input type="checkbox"/> Muscular Dystrophy	<input checked="" type="checkbox"/> Acid Attack Victims	<input type="checkbox"/> Blindness	<input type="checkbox"/> Low Vision	<input type="checkbox"/> Deaf	<input type="checkbox"/> Hard of Hearing
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<input checked="" type="checkbox"/> Acid Attack Victims	<input type="checkbox"/> Blindness	<input type="checkbox"/> Low Vision	<input type="checkbox"/> Deaf	<input type="checkbox"/> Hard of Hearing								

		<input type="checkbox"/> Speech and Language Disability <input type="checkbox"/> Multiple Sclerosis <input type="checkbox"/> Multiple Disabilities	<input type="checkbox"/> Intellectual Disability <input type="checkbox"/> Parkinson's Disease	<input type="checkbox"/> Specific Learning Disabilities <input type="checkbox"/> Haemophilia	<input type="checkbox"/> Autism Spectrum Disorder <input type="checkbox"/> Thalassemia	<input type="checkbox"/> Mental Illness <input type="checkbox"/> Sickle Cell Disease
		Remarks:				
13.	Submitting Body Details	Name: Furniture and Fittings Skill Council E-mail ID: info@ffsc.in Contact Number: +91 124 4513900				
14.	Certifying Body	Furniture and Fittings Skill Council				
15.	Employment Avenues/Opportunities	After completing this program, participants may have any of the following opportunities: <ul style="list-style-type: none"> • Employed as a Multipurpose Assistant- Woodworker in a Factory/ Workshop • Employed as a Multipurpose Assistant- Woodworker in a Worksite/ On-site 				
16.	Career Progression	Vertical Progression Assistant Carpenter (Level-4) Or Assistant Woodworker (Level-4)				
17.	Trainer's Qualification & Experience	Graduate (Engineering, Architecture, Interior Design, Furniture Manufacturing, Wood Work, Product Design or Any other Discipline) with 2 years' experience (Industry), 1 year experience (Teaching) OR I.T.I (Carpentry, Furniture Manufacturing) with 3 years' experience (Industry), 1 year experience (Teaching) OR				

		<p>Diploma (Carpentry, Furniture Manufacturing) with 3 years' experience (Industry), 1 year experience (Teaching) OR Certificate-NSQF (NSQF Level 3 Multipurpose Assistant (FFS/Q0901)) with 4 years' experience (Industry), 1 year experience (Teaching) OR Certificate (NSQF Level 4 (Based on elective opted) Or above) with 3 years' experience (Industry), 1 year experience (Teaching) OR 8th Class (Grade 8 Pass) with 3 years' experience (Industry), 1 year experience (Teaching) OR CITS (Relevant CITS Course) with 3 years' experience (Industry), 1 year experience (Teaching)</p>
18.	Curriculum Creation Date	07-03-2024
19.	Curriculum Valid up to Date	31-08-2026

Module Details

S. No	Module/NOS Name, Code, Version	Outcomes	Assessment Marks		Passing Percentage	
			Th.	Pr.	Th.	Pr.
1	Introduction to the role of a Multipurpose Assistant- Furniture Production and Installation Bridge Module	<ul style="list-style-type: none"> • Describe the Furniture production trade and its scope in the Interiors, furniture, and fittings sector. • Describe the roles and responsibilities of Multipurpose Assistant and the reporting levels. • Explain the transition to Level-4 based on specialization selected with an overview of the apprenticeship program. • Describe the mechanics of job card scheduling. • Follow all the organizational policies and schedules applicable to the Multipurpose Assistant job role while working. • Practice job card management in every assigned task for effective work monitoring. • Demonstrate the elements of the code of conduct with the employer while working. 	0	0	0	0
2	Introduction to types of materials, tools and equipment, machines Bridge Module	<ul style="list-style-type: none"> • Describe common types and characteristics of solid wood. • Identify and describe the application of engineered wood products. • Describe how lumber is milled, seasoned, stored, and ordered. • Explain the safe usage of different hand and power tools. • Describe the fasteners and adhesives used for wood and wood derivative materials. • Describe the types and uses of sanding abrasives. • Describe the routine maintenance process for using different hand, power, and machine tools. 	0	0	0	0

S. No	Module/NOS Name, Code, Version	Outcomes	Assessment Marks		Passing Percentage	
			Th.	Pr.	Th.	Pr.
		<ul style="list-style-type: none"> • Differentiate between different types of wood species and wood derivative materials. • Differentiate between the thickness and size of different engineered wood derivate materials. • Identify various types of architectural hardware and their technical specifications. • Practice the installation of a range of hardware and accessories. • Inspect the safe working of tools and equipment before usage. • Perform the calibration of required tools and equipment before usage. • Practice the usage of various hand tools in the woodworking process. • Practice the usage of various portable power tools in the woodworking process. • Practice the usage of various stationary power tools in the woodworking process. • Practice the usage of a portable sander for finishing processes. • Demonstrate the safe operation and regular maintenance of portable planning and shaping equipment. • Demonstrate the steps involved in using a miter saw and circular saw. • Practice the usage of different marking tools for the fabrication of components. • Demonstrate the steps involved in the sharpening of hand tools and machine blades. • Perform the fabrication of assigned projects using appropriate fasteners, adhesives, hand, and power tools. 				

S. No	Module/NOS Name, Code, Version	Outcomes	Assessment Marks		Passing Percentage	
			Th.	Pr.	Th.	Pr.
3	Work docket interpretation Mapped to FFS/N0901, v1.0	<ul style="list-style-type: none"> Define the job card's purpose, scope of work, objectives, resource requirements, and interpret the card to identify specific tasks and deliverables. List the components of work docket, with a focus on timely job cards submission. Describe the interpretation of technical drawings, emphasizing precision through symbol differentiation. Explain the importance of part list, cutting list, material list, and equipment list, highlighting the significance of each component. Apply critical thinking skills to assess job card information, ensuring all details align with project requirements before execution. Demonstrate effective communication skills in discussing and clarifying job card details with supervisor, promoting a collaborative work environment. Demonstrate precise completion of job cards, ensuring accurate recording of relevant details and timely fulfillment. Implement time-management strategies to complete job cards accurately and promptly, adhering to project timelines and deadlines. Organize work docket proficiently, integrating all essential information. Utilize problem-solving techniques to address anomalies or missing elements within work docket, fostering a proactive approach to job preparation. Identify and interpret crucial components in technical drawings, including plans, elevations, and exploded views, showcasing practical proficiency. 	8	40	70%	70%

S. No	Module/NOS Name, Code, Version	Outcomes	Assessment Marks		Passing Percentage	
			Th.	Pr.	Th.	Pr.
		<ul style="list-style-type: none"> • Display the ability to translate and visualize 2D representations from technical drawings into a comprehensive understanding of designs, ensuring practical application. • Apply proficiency in reading and comprehending part lists, cutting lists, material lists, and tools and equipment lists. • Conduct practical exercises in reading and interpreting diverse lists associated with woodworking projects, reinforcing organizational skills in a workshop setting. 				
4	<p>Recce of the worksite</p> <p>Mapped to FFS/N0901, v1.0</p>	<ul style="list-style-type: none"> • Discuss the steps involved in preparing a comprehensive recce list for effective reconnaissance. • Explain the significance of maintaining a clean work area and its impact on precise marking and measurement activities. • Describe the role of a physical site survey in the broader context of furniture design and manufacturing processes. • Illustrate accurate marking techniques in accordance with layout and plan specifications. • Discuss the significance of timely compilation and accurate documentation of measurements for effective communication and record-keeping. • Identify and gather essential materials, tools, or equipment for recce, demonstrating an understanding of basic project requirements. • Plan and prepare materials and tools systematically, adhering to guidelines for efficient recce activities. • Use basic tools to clean and organize the work area, removing debris for a clutter-free space conducive to marking and measurement tasks. 	10	42	70%	70%

S. No	Module/NOS Name, Code, Version	Outcomes	Assessment Marks		Passing Percentage	
			Th.	Pr.	Th.	Pr.
		<ul style="list-style-type: none"> • Inspect the worksite for basic safety hazards during site survey activities. • Prepare a basic checklist specific to project requirements, ensuring a structured approach to basic site survey tasks. • Execute a basic physical site survey, following a predefined checklist and collecting fundamental data, measurements, and relevant information. • Demonstrate basic proficiency in using appropriate tools and techniques for recce data collection. • Employ effective digital data collection methods, like mobile applications, for basic recording of measurements and observations. • Demonstrate basic proficiency in translating straightforward design plans into on-site markings with accuracy. • Perform basic marking at the worksite based on provided layout and plan, using simple tools and techniques. • Follow basic quality control measures during the marking process, ensuring markings align with basic project specifications. • Compile basic measurements systematically in the measurement sheet, ensuring basic clarity and precision. • Utilize digital tools or software for measurement and site data compilation, promoting efficiency and reducing the likelihood of basic errors in data entry. • Carry out timely handover of the basic measurement sheet to the supervisor, demonstrating effective communication. 				

S. No	Module/NOS Name, Code, Version	Outcomes	Assessment Marks		Passing Percentage	
			Th.	Pr.	Th.	Pr.
5	Interpret and organize process pre-requisites Mapped to FFS/N0902, v1.0	<ul style="list-style-type: none"> • Discuss the various operations and departmental roles essential in the production process. • List and describe different types of raw materials, tools, and equipment, emphasizing their significance in production. • Explain the importance of a material movement plan in optimizing workflow and coordinating across departments. • Describe the roles and responsibilities of different departments involved in the efficient movement of materials. • Highlight the key potential challenges and considerations related to material selection and movement in the production process. • Perform the task of identifying and listing the number of operations and departments involved in a given production process, showcasing foundational knowledge. • Demonstrate adeptness in compiling and organizing lists of materials, tools, and equipment with precision and efficiency for streamlined accessibility. • Exhibit proficiency in executing tasks related to organization of essential raw materials, tools, and equipment from various departments. • Utilize suitable techniques for material selection, considering factors such as specifications, compatibility, and availability within the woodworking environment. • Showcase the capability to create a material movement plan, delineating sequences and departmental involvement in the production process. 	5	29	70%	70%

S. No	Module/NOS Name, Code, Version	Outcomes	Assessment Marks		Passing Percentage	
			Th.	Pr.	Th.	Pr.
		<ul style="list-style-type: none"> • Illustrate proper techniques for the handling, storage, and transportation of materials in a woodworking environment, emphasizing safety and efficiency. • Employ acquired knowledge of material list content and material movement plans in the safe and efficient execution of the handover process to the relevant department. • Implement effective strategies and techniques to ensure strict adherence to defined timelines, incorporating sound time management, prioritization, and coordination practices to achieve project goals. • Display fundamental skills in time management and coordination to efficiently meet project deadlines. 				
6	Material inspection and selection Mapped to FFS/N0902, v1.0	<ul style="list-style-type: none"> • Describe the importance of precise measurement techniques and tools. • Discuss the significance of proper marking methods for material identification. • Explain the importance of architectural hardware and fittings in furniture projects. • Explain the usage of different materials for finishing in furniture projects. • Explain the usage of different materials for upholstery in furniture or interior design projects. • List common quality defects in materials and associated mitigation procedures. 	6	41	70%	70%

S. No	Module/NOS Name, Code, Version	Outcomes	Assessment Marks		Passing Percentage	
			Th.	Pr.	Th.	Pr.
		<ul style="list-style-type: none"> • Implement effective measurement techniques for precision in material assessment. • Measure materials using suitable techniques, tools, and units of measurement for furniture fabrication processes. • Utilize appropriate marking methods and techniques to facilitate effective communication and easy identification during fabrication activities. • Identify and inspect architectural hardware and fittings, ensuring compatibility with specific requirements. • Evaluate different materials for finishing requirements, based on their unique types, characteristics, and suitability in furniture production. • Assess various materials for upholstery requirements, considering their types, characteristics, and appropriateness for the furniture fabrication process. • Verify tools, equipment, and spares, ensuring their compatibility and adherence to specific requirements in the furniture production environment. • Inspect and validate semi-finished and finished goods, considering their types, quality, and specifications. • Perform thorough quality checks on materials through inspection, testing, and evaluation against established standards. • Recognize and promptly report any quality defects or anomalies in woodworking materials or relevant industries. 				

S. No	Module/NOS Name, Code, Version	Outcomes	Assessment Marks		Passing Percentage	
			Th.	Pr.	Th.	Pr.
7	<p>Material loading, unloading, and movement</p> <p>Mapped to FFS/N0902, v1.0</p>	<ul style="list-style-type: none"> Describe the role of instruction sheets in ensuring safe and efficient material operations. Explain the factors involved in selecting appropriate handling equipment for specific material requirements. List and describe proper operation and control techniques when using handling equipment for material shifting. Discuss safety precautions and procedures for operating handling equipment during material handling activities. Demonstrate the steps involved in accurate interpretation of material loading and unloading sheets. Optimize resource allocation for efficient material handling operations. Display proficiency in selecting handling equipment tailored to material characteristics. Perform the operation of handling equipment for secure material shifting, adhering to safety protocols. Identify and address discrepancies or issues in real-time material handling scenarios. Adhere rigorously to safety protocols during handling equipment operation. Execute accurate and timely record-keeping for efficient material tracking and management. Collaborate effectively with team members for a cooperative and coordinated workflow. 	2	17	70%	70%

S. No	Module/NOS Name, Code, Version	Outcomes	Assessment Marks		Passing Percentage	
			Th.	Pr.	Th.	Pr.
8	<p>Worksite preparation for required operation</p> <p>Mapped to FFS/N0903, v1.0</p>	<ul style="list-style-type: none"> • Explain the importance of work area preparation for operational efficiency and safety. • Explain the purpose and significance of inspecting incoming goods as per specifications. • Highlight the importance of proper unpacking and arrangement for efficient workflow. • Highlight different methods for handling and transporting materials, tools, and equipment. • Describe the importance of segregating and storing materials efficiently. • Demonstrate precise work area preparation, including tool, equipment, and material setup, following supervisor's instructions. • Perform a thorough inspection of goods upon receipt, adhering to predefined quality and quantity specifications. • Execute systematic unpacking of materials, arranging furniture parts, and organizing tools and equipment as per provided instructions. • Select suitable containers based on item type and size, ensuring secure storage and facilitating easy accessibility. • Demonstrate effective and safe usage of material handling equipment for efficient material handling and storage. • Execute secure handling methods for goods during storage, preventing damage or deterioration. • Apply safety protocols consistently throughout material handling and storage activities, ensuring a secure work environment. • Showcase proficiency in applying various stacking techniques to optimize material storage efficiency. • Apply benchmarking techniques to ensure systematic and accessible material storage according to industry standards. • Use labeling and tracking systems to accurately identify and locate stored items for streamlined retrieval. 	6	30	70%	70%

S. No	Module/NOS Name, Code, Version	Outcomes	Assessment Marks		Passing Percentage	
			Th.	Pr.	Th.	Pr.
9	Maintenance of the work area Mapped to FFS/N0903, v1.0	<ul style="list-style-type: none"> • Explain effective management of materials, tools, equipment, and products in woodworking. • Discuss the usage of measuring instruments for assessing dimensions of products. • Explain the importance of maintaining a clean work area for safety and productivity. • Describe appropriate cleaning methods for various surfaces and materials. • Demonstrate the skills to organize storage and retrieval of materials, tools & equipment in woodworking. • Use designated bays for efficient storage and retrieval of materials, tools, and finished products. • Apply effective techniques to achieve desired outcomes. • Rigorously apply safety protocols during task execution, minimizing the risk of accidents or injuries. • Apply accurate measurement techniques for assessing dimensions of semi-finished parts and finished goods in woodworking. • Perform routine maintenance tasks to ensure optimal condition and longevity of semi-finished parts and finished goods. • Demonstrate efficient worksite cleaning using suitable materials and tools, maintaining a tidy woodworking environment. • Analyze worksite for safety hazards related to cleanliness, taking proactive measures to mitigate potential risks. • Effectively communicate safety concerns related to cleanliness and organization for continuous improvement. 	8	56	70%	70%

S. No	Module/NOS Name, Code, Version	Outcomes	Assessment Marks		Passing Percentage	
			Th.	Pr.	Th.	Pr.
		<ul style="list-style-type: none"> Perform duties in the safe disposal of combustible waste products, strictly following guidelines for environmental compliance. Demonstrate accurate job work documentation at the end of each shift, ensuring thorough record-keeping. 				
10	Health and safety practices at the worksite Mapped to NOS/N8201, v3.0	<ul style="list-style-type: none"> Describe the accident reporting requirements and first aid responses to common injuries. Describe the requirements for the usage of personal protective equipment. Describe the safe work practices used in a workshop and on-site. Describe potential health hazards related to on-site work. Explain the organizational practices associated with the health and hygiene practices at the workplace. Apply the standard work practices used in a workshop and on-site. Select and use appropriate personal protective equipment. Apply the concepts of personal safety awareness and practices while working at the worksite. Carry out routine cleaning of workplace, tools, and equipment. Perform the inspection of the work area for health and safety breaches. Practice the usage of emergency equipment like Fire extinguishers in emergencies and accidents. Practice the first aid responses using a first aid kit. Perform mock drills at regular intervals for health and safety purposes. Follow the company’s emergency procedures promptly, calmly, and efficiently. 	24	50	70%	70%

S. No	Module/NOS Name, Code, Version	Outcomes	Assessment Marks		Passing Percentage	
			Th.	Pr.	Th.	Pr.
		<ul style="list-style-type: none"> Deal with hazards, as per the procedure, safely, competently, and within the limits of authority. Record all the health and safety records legibly and accurately. Report safety and security breaches or any hazards to the company's designated person. Demonstrate effective application of 5S principles at the workplace. 				
11	Greening practices at the worksite Mapped to NOS/N8201, v3.0	<ul style="list-style-type: none"> Explain the importance of efficient utilization and conservation of material. State the difference between renewable and non-renewable sources of energy. Differentiate between recyclable and non-recyclable waste. Explain the importance of performing greening practices at the worksite. Explain various types of waste generated at the worksite and their safe disposal processes. Follow the organizational standards and policies for safe waste disposal at the worksite. Practice the efficient disposal of various types of waste. Select appropriate waste disposal methods based on worksite requirements Practice energy conservation practices while working at the worksite. Check the tools and equipment for proper functioning. Report the faults and maintenance lapses in the tools and equipment to the concerned personnel effectively, if required. 	11	15	70%	70%

S. No	Module/NOS Name, Code, Version	Outcomes	Assessment Marks		Passing Percentage	
			Th.	Pr.	Th.	Pr.
12	Employability Skills Mapped to DGT/VSQ/N0101, v1.0	<ul style="list-style-type: none"> • Discuss the practical impact of Employability Skills on meeting job requirements. • Execute basic constitutional values, civic rights, duties, citizenship, and demonstrate responsible citizenship. • Apply 21st-century skills in practical scenarios. • Utilize simple English sentences/phrases effectively while speaking. • Demonstrate practical and respectful interactions with all genders and People with Disabilities (PwD). • Report instances of sexual harassment promptly and practically. • Implement the secure use of financial products and services in practical situations. • Practice practical management of expenses, income, and savings. • Engage with relevant authorities promptly in cases of exploitation, adhering to legal rights. • Demonstrate the safe and practical use of the internet for browsing and social media. • Identify practical business opportunities, sources of funding, and anticipate legal and financial challenges. • Distinguish between different types of customers in practical scenarios. • Meet practical customer needs through understanding and addressing them. • Implement personal hygiene and appropriate dressing practices in practical situations. • Dress neatly and maintain hygiene practically for interviews. • Guide on practically searching and registering for apprenticeship opportunities. • Implement environmentally sustainable practices in practical ways. 	20	30	70%	70%

S. No	Module/NOS Name, Code, Version	Outcomes	Assessment Marks		Passing Percentage	
			Th.	Pr.	Th.	Pr.
		<ul style="list-style-type: none"> • Display a practical positive attitude, motivation, problem-solving, time management, and a learning mindset. • Communicate politely and practically with others. • Collaborate effectively with others in a team in practical situations. • Operate digital devices and applications securely in practical scenarios. • Develop a practical biodata. • Utilize various practical sources to find and apply for jobs. 				
13	Worksite preparation for woodworking operation Mapped to FFS/N0905, v1.0	<ul style="list-style-type: none"> • Explain interpreting task requirements from work docket and supervisor's instructions. • Discuss the importance of resource planning in woodworking operations. • Explain types of woodworking fabrication/installation operations, their requirements, and factors for setting up work areas. • Explain types of woodworking safety/protection materials and their installation methods. • Explain electrical safety principles and practices for using power tools in woodworking. • Demonstrate the ability to interpret work docket/job cards and efficiently allocate resources, ensuring smooth machine operations in the furniture woodworking shop. • Apply accurate techniques to identify and select appropriate materials, tools, equipment, and architectural hardware based on suitability, availability, and safety standards. • Perform unpacking of materials and furniture parts, applying correct techniques and safety measures, and using suitable tools and equipment. 	4	23	70%	70%

S. No	Module/NOS Name, Code, Version	Outcomes	Assessment Marks		Passing Percentage	
			Th.	Pr.	Th.	Pr.
		<ul style="list-style-type: none"> Apply safety procedures and regulations effectively while setting up the work area for woodworking fabrication/installation operations. Execute the precise selection and installation of wall and floor safety/protection materials, ensuring correct and secure placement in compliance with safety standards. Conduct a thorough safety and functionality check of power sockets for power tool usage, identifying and addressing any damage or faults, ensuring proper grounding. Inspect and ensure the proper functioning of safety features on machinery and equipment, on a regular basis, using systematic checks to contribute to proactive workplace safety. Maintain detailed records of safety checks performed, employing systematic and organized documentation methods for future reference and to ensure compliance verification. 				
14	Perform woodworking operation Mapped to FFS/N0905, v1.0	<ul style="list-style-type: none"> Discuss furniture part names and interpretation in woodworking. Describe various woodworking joints, their characteristics, and applications. Explain edge banding techniques and materials in woodworking. Describe furniture assembly techniques, tools, and hardware fittings. Explain sanding processes, orbital sanding machines, and surface preparation in woodworking. Showcase proficiency in interpreting technical drawings, plans, or diagrams for woodworking, ensuring a clear grasp of product components, dimensions, and assembly requirements. 	7	49	70%	70%

S. No	Module/NOS Name, Code, Version	Outcomes	Assessment Marks		Passing Percentage	
			Th.	Pr.	Th.	Pr.
		<ul style="list-style-type: none"> • Execute precise procedures for woodworking joints, utilizing a range of hand and power tools with precision in line with workplace guidelines. • Operate and make necessary adjustments to edge banding machines, demonstrating competence in applying edge banding techniques on various woodworking components. • Select and align furniture components and hardware, emphasizing attention to detail and adherence to design specifications. • Demonstrate proficiency in performing furniture assembly, showcasing adept utilization of specified hardware and fittings to ensure precise and efficient installations. • Display effective troubleshooting skills and the ability to make required adjustments to hardware, demonstrating proficiency in ensuring proper functioning and seamless integration with woodworking projects. • Apply proficient techniques in preparing surfaces using orbital sanding machines and abrasive papers, achieving desired finishes with precision. • Apply varied techniques for material preparation, ensuring accurate mixing, consistency, and compatibility when working with stains, finishes, polishes, waxes, and fillers. • Demonstrate skill in assisting furniture repairs and restoration, encompassing tasks such as stripping old finishes, repairing damage, and ensuring a refined finish. 				

S. No	Module/NOS Name, Code, Version	Outcomes	Assessment Marks		Passing Percentage	
			Th.	Pr.	Th.	Pr.
		<ul style="list-style-type: none"> Showcase meticulous attention to detail in both assembly and finishing processes, emphasizing precision, quality, and strict adherence to design specifications. Maintain accurate documentation of work processes, recording details such as project timelines, material usage, and deviations from initial plans for future reference and analysis. 				
15	<p>Clean and maintain the woodworking shop</p> <p>Mapped to FFS/N0905, v1.0</p>	<ul style="list-style-type: none"> Describe procedures for cleaning the work area in the furniture woodworking shop. State the significance of safety and organization in the furniture woodworking shop. Discuss guidelines and regulations for waste disposal in the furniture woodworking shop, emphasizing environmental and safety considerations. Describe packaging, storage, and tagging procedures used in the furniture woodworking shop. Discuss the importance of following workplace procedures for efficient workflow and protecting finished work. Demonstrate the use of suitable tools for cleaning and maintaining the furniture woodworking shop. Optimize the efficiency of cleaning tools, ensuring their effective use in maintaining cleanliness in the furniture woodworking shop. Apply precise techniques for storing hand and/or power tools and equipment, ensuring organized and accessible arrangements in line with workplace procedures. Execute material disposal practices for unwanted materials, following waste disposal procedures and environmental compliance guidelines. Handle job work packaging, ensuring accurate tagging and following workplace procedures for efficient transfer to the next phase. 	2	15	70%	70%

S. No	Module/NOS Name, Code, Version	Outcomes	Assessment Marks		Passing Percentage	
			Th.	Pr.	Th.	Pr.
		<ul style="list-style-type: none"> Maintain accurate and up-to-date documentation as required in a furniture woodworking shop. Apply feedback from supervisors appropriately, employing effective methods for recording and incorporating inputs to drive continuous improvement. 				
Total Marks			113	437	70%	

Glossary

Term	Description
Sector	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
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.
National Occupational Standards (NOS)	NOS are occupational standards which apply uniquely in the Indian context.
Declarative Knowledge	Declarative knowledge refers to facts, concepts, and principles that need to be known and/or understood in order to accomplish a task or to solve a problem.
Key Learning Outcome	Key learning outcome is the statement of what a learner needs to know, understand and be able to do in order to achieve the terminal outcomes. A set of key learning outcomes will make up the training outcomes. Training outcome is specified in terms of knowledge, understanding (theory) and skills (practical application).
OJT (M)	On-the-job training (Mandatory); trainees are mandated to complete specified hours of training on-site
OJT (R)	On-the-job training (Recommended); trainees are recommended the specified hours of training on-site
Procedural Knowledge	Procedural knowledge addresses how to do something or how to perform a task. It is the ability to work or produce a tangible work output by applying cognitive, affective, or psychomotor skills.
Training Outcome	Training outcome is a statement of what a learner will know, understand and be able to do upon the completion of the training.
Terminal Outcome	The terminal outcome is a statement of what a learner will know, understand and be able to do upon the completion of a module. A set of terminal outcomes help to achieve the training outcome.

Acronyms

Acronym	Description
QP	Qualification Pack
NSQF	National Skills Qualification Framework
NSQC	National Skills Qualification Committee
NOS	National Occupational Standards
QC	Quality Checking
PwD	Person with Disability
ToT	Training of Trainers
ToA	Training of Assessors
FFSC	Furniture and Fittings Skill Council
TP	Training Partner
PC	Performance Criteria
NA	Not Applicable
PPE	Personal Protective Equipment

Annexure 1: Tools and Equipment

List of Tools and Equipment

For a Batch size of 20 Candidates

The tools and equipment required are:

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size (In Nos)
1	White Board/ Green Board		1
2	Board Marker	2 Different color board markers with respective refill ink containers	2
3	Duster		1
4	Projector/ Smart TV		1
5	Laptop	With proper configuration to run MS Office applications	1
6	Chairs	With foldable study flaps- For theory lectures	20
7	Trainer's Table/ Podium		1
8	Working Bench- Foldable		5
9	Bench Vice		20
10	Ear Plug	Material: Foam/Rubber, Noise Reduction Rating: ANSI certified	20
11	Hand Gloves	Material: Leather/Rubber, Size: Various sizes available	20
12	Nose Mask	Type: N95 Respirator, Fit: Adjustable nose clip	20
13	Safety Shoes	Material: Steel toe, durable, Compliance: Meets safety standards	20
14	Goggles	Type: Safety goggles, Lens: Impact-resistant	20
15	Dustbin	Material: Durable plastic/metal, Capacity: Appropriate for waste generated	5
16	Fire Extinguisher	Type: ABC Dry Chemical, Size: As per safety regulations	1
17	First Aid Kit	Contents: Bandages, antiseptic, etc., Compliance: Meets workplace safety standards	1

18	Carpentry Pencil	Type: Standard carpenter's pencil, Lead: Hard for durability	20
19	Notebook	Size: Standard notebook, Paper: Durable with grid lines	20
20	Measurement Tape	Length: 5 meters, Material: Durable, marked in metric units	20
21	Screw Driver with bit set	Types: Various screwdriver heads, Material: High-quality steel	1
22	Allen Key Set	Sizes: Various sizes, Material: High-quality steel	1
23	Type of Wood- Samples	Examples: Oak, Maple, Pine	2
24	Types of Veneers- Samples	Examples: Walnut veneer, Oak veneer	2
25	Types of Laminates- Samples	Examples: High-pressure laminate, Low-pressure laminate	2
26	Types of Metal- Samples	Examples: Aluminium, Steel	2
27	Types of Ply- Samples	Examples: Marine Plywood, Birch Plywood	2
28	Types of Wood Derivatives- Samples	Examples: MDF (Medium Density Fibreboard), Block boards, Particle boards	2
29	Types of Hinges- Samples	Types include: Butt, Auto Closing Hinge- 0 crank, 9.5 crank, 9.5 crank, 16 crank	2
30	Types of Hardware Channels- Samples	Types include: Quadro, Telescopic	2
31	Types of Lock Sets- Samples	Types include: Mortise, Multipurpose, Cylinder	1
32	Minifix Set	Set includes: Dowel, Nylon insert, Cam Lock, Minifix bolt	10
33	Mitre Saw/ Circular Saw with blade	Type: Electric, Blade Size: As per tool specifications	1
34	Jig Saw with blade	Type: Electric, Blade Type: Suitable for various materials	1
35	Electric Hand Plunge Router	Power: As per specifications, Collet Size: Compatible with router bits	1
36	Router Bit Set	Types: Various router bits, Shank Size: Compatible with router	1

37	Electric Impact Drill Machine	Power: As per specifications, Chuck Size: Compatible with drill bits	5
38	Drill Bit Set	Types: Various drill bits	5
39	Steel Ruler	Material: Stainless steel, Length: 300 mm	20
40	Laser Measurement Tape	Range: As per specifications, Accuracy: High precision laser measurement	1
41	Spirit Level	Type: Bubble level, Length: As per specifications	5
42	Dividers	Material: Steel, Size: Adjustable for various measurements	20
43	Marking Gauge	Material: Wood/Metal, Blade: Adjustable for precise marking	20
44	Sliding Bevel	Material: Wood/Metal, Angle: Adjustable	20
45	Mortise Gauge	Material: Wood/Metal, Size: Standard for mortise measurements	20
46	Engineers Square- 12"	Material: Steel, Size: 12 inches	20
47	Compass	Type: Drafting compass, Size: Adjustable for various circles	20
48	Bevel Chisel 1/4" with Handle	Size: 1/4", Material: High-quality steel	20
49	Bevel Chisel 1/2" with Handle	Size: 1/2", Material: High-quality steel	20
50	Bevel Chisel 3/4" with Handle	Size: 3/4", Material: High-quality steel	20
51	Bevel Chisel 1" with Handle	Size: 1", Material: High-quality steel	20
52	Bevel Chisel 1 1/4" with Handle	Size: 1 1/4", Material: High-quality steel	20
53	Mortise Chisel 1/4" with Handle	Size: 1/4", Material: High-quality steel	20
54	Mortise Chisel 1/2" with Handle	Size: 1/2", Material: High-quality steel	20
55	Hand Saw	Type: Crosscut or rip	20

56	Coping Saw	Type: Coping saw	5
57	Coping Saw Blades Packet	Type: Replacement blades, Teeth Per Inch (TPI): As per application	1
58	Compass Saw	Type: Compass saw	1
59	Half Round File 10" with Handle	Length: 10 inches, Cut: Bastard cut	5
60	Jack Plane- 14"	Length: 14 inches, Blade Type: Adjustable	20
61	Wooden Mallet	Material: Wood/Rubber head, Weight: Suitable for carpentry work	5
62	Cross Head Hammer	Type: Cross peen hammer, Weight: As per specifications	1
63	Soft Hammer	Type: Rubber mallet, Weight: Suitable for delicate work	5
64	Sanding Paper - 120 Grit-Plain	Grit: 120, Size: Standard sandpaper sheet	1
65	Sanding Paper - 180 Grit-Plain	Grit: 180, Size: Standard sandpaper sheet	1
66	Sanding Paper - 220 Grit-Plain	Grit: 220, Size: Standard sandpaper sheet	1
67	Sanding Paper - 400 Grit-Plain	Grit: 400, Size: Standard sandpaper sheet	1
68	Sharpening/Oil Stone	Type: Combination sharpening stone, Grit: Coarse and fine	1
69	T Bar Clamp	Type: T-bar clamp, Length: As per specifications	5
70	G Clamp	Type: G-clamp, Opening Capacity: As per specifications	10

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. White Board/ Green Board
2. Board Marker
3. Duster
4. Projector/ Smart TV
5. Laptop
6. Chairs (For theory lectures)
7. Trainer's Table/ Podium
8. Storage Cabinet

Annexure 2: Assessment Strategy

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

At FFSC, we believe to gauge the performance of a candidate a holistic approach for assessment is essential. As such we have devised a multi-tier process to keep track of candidate overall progress at various stages. While a few techniques are imbibed as part of the training delivery program, others are explicit ways of testing. 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 at regular intervals to gauge the progress of the candidate during the training program. These are mix of Theory and 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. Trainer can consult the Master Trainer/ Program Mentor with regards to training delivery or conducting periodic assessments.

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

2. External

a. Assessment Partners/ Freelance Assessors:

An external assessment shall mandatorily be conducted by Assessment Partners via ToA certified Assessors or ToA certified Freelance Assessors. There are 3 key 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 and Assessment Team or any other assigned authority by FFSC, may conduct surprise or planned visits and checks from quality assurance and monitoring perspective.

The requirements and details of each stage are as 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 important to be compiled:

- a. Check the availability of the Lab Equipment for the particular Job Role as per the mode of conducting 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 and Assessment Monitoring Team for Assessment Quality Assurance checks.
- g. Ensure evidence of conducting assessment is gathered as per FFSC protocol:
 - i. Time-stamped and geo-tagged 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 and geotagged assessment (Theory + Viva + Practical) photographs and 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 and photographs of the assessment are uploaded/accessed from Cloud Storage
- d. Soft copies of the documents and 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 programs.