

APPRENTICESHIP CURRICULUM (OPTIONAL TRADE)

Furniture and Fittings

Multipurpose Assistant- Furniture Production and Installation:

Surface Finishing

Course Code: CO032400016

NAPS Non-NAPS

NSQF Level: 3



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Course Details

| 1. | Course Name | Multipurpose Assistant- Furniture Production and Installation: Surface Finishing | | | | | | | | | | |
|--------|--|---|---|--|--------|---|------------------------|----------|---|--|----------------------------------|-----------------------------|
| 2. | Course Code | CO032400016 | | | | | | | | | | |
| 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: Surface Finishing</td> <td style="text-align: center;">FFS/Q0901- SI006 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: Surface Finishing | FFS/Q0901- SI006 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: Surface Finishing | FFS/Q0901- SI006 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-dqet) | NCO-2015/7115.9900 | | | | | | | | | | |

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|--|---|---|--|--|--|--|--|--|---|--|--------------------------------------|---|
| <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</p> <p>If yes, check the applicable type of Disability</p> <table border="0"> <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 |
| <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 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- Surface Finishing in a Factory/ Workshop • Employed as a Multipurpose Assistant- Surface Finishing in a Worksite/ On-site | | | | |
| 16. | Career Progression | Vertical Progression Assistant Technician - Furniture Surface Preparation (Level-4) Or Asst Furniture Finisher (Level-4) Or Assistant Furniture Finishing Machine Operator (Level-4) | | | | |

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|-----|---|--|
| 17. | Trainer's Qualification & Experience | <p>Graduate (Engineering, Architecture, Interior Design, Furniture Manufacturing, Wood Work, Product Design or Any other Discipline) with 2 years' experience (Industry), 1 year experience (Teaching)</p> <p>OR</p> <p>I.T.I (Carpentry, Furniture Manufacturing) with 3 years' experience (Industry), 1 year experience (Teaching)</p> <p>OR</p> <p>Diploma (Carpentry, Furniture Manufacturing) with 3 years' experience (Industry), 1 year experience (Teaching)</p> <p>OR</p> <p>Certificate-NSQF (NSQF Level 3 Multipurpose Assistant (FFS/Q0901)) with 4 years' experience (Industry), 1 year experience (Teaching)</p> <p>OR</p> <p>Certificate (NSQF Level 4 (Based on elective opted) Or above) with 3 years' experience (Industry), 1 year experience (Teaching)</p> <p>OR</p> <p>8th Class (Grade 8 Pass) with 3 years' experience (Industry), 1 year experience (Teaching)</p> <p>OR</p> <p>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 dockets, 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 dockets proficiently, integrating all essential information. Utilize problem-solving techniques to address anomalies or missing elements within work dockets, 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 | <p>Interpret and organize process pre-requisites</p> <p>Mapped to FFS/N0902, v1.0</p> | <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 | Material loading, unloading, and movement Mapped to FFS/N0902, v1.0 | <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 | Worksite preparation for required operation Mapped to FFS/N0903, v1.0 | <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 | <p>Worksite preparation for finishing operation</p> <p>Mapped to FFS/N0907, v1.0</p> | <ul style="list-style-type: none"> • Explain the process of interpreting finish, color, and design requirements from job cards and supervisor's instructions. • Discuss resource planning for efficient product finishing operations. • Describe criteria for selecting materials, tools, and equipment in furniture finishing. • List and apply basic quality parameters for furniture finishing using different techniques. • Discuss the characteristics of various finish processes used in furniture finishing operations. • Demonstrate adept interpretation of work dockets/job cards, allocating resources based on finish, color, and design for smooth operations. • Perform precise selection of materials, tools, and equipment, enhancing workflow efficiency in furniture finishing. • Conduct comprehensive quality checks of furniture items/frames, consistently maintaining high-quality standards. • Apply appropriate methods during quality checks, swiftly addressing anomalies to ensure a flawless finish. | 10 | 35 | 70% | 70% |

| S. No | Module/NOS Name, Code, Version | Outcomes | Assessment Marks | | Passing Percentage | |
|-------|---|---|------------------|-----|--------------------|-----|
| | | | Th. | Pr. | Th. | Pr. |
| | | <ul style="list-style-type: none"> • Demonstrate a clear interpretation of finish process requirements, adeptly analyzing finishing matrices for perfect alignment. • Identify and proactively address inconsistencies or deviations, ensuring uniformity throughout the finishing process. • Inspect furniture products, promptly reporting any wear and tear anomalies for swift resolution. • Apply correct and skillful techniques to fill areas like cracks, holes, or joints, ensuring a smooth and even finish. • Perform rigorous quality checks on filled areas, showcasing mastery in achieving smoothness and evenness. • Execute finishing operations with precision, ensuring a smooth and accurate finishing touch to the furniture. • Adhere strictly to safety protocols during all furniture finishing operations, ensuring a secure working environment. • Maintain meticulous and accurate documentation for efficient reference throughout the furniture finishing process. | | | | |
| 14 | Furniture finishing on the product Mapped to FFS/N0907, v1.0 | <ul style="list-style-type: none"> • Differentiate sanding paper grades, explaining their abrasiveness levels and usages in furniture surface finishing. • Discuss sanding techniques in furniture finishing, explaining their purposes. • Explain techniques for applying coatings using brushes and spray guns in furniture finishing. • List factors for achieving consistent coverage and minimizing flaws in furniture finishing. • List common defects and imperfections in furniture surface finishing. | 6 | 25 | 70% | 70% |

| S. No | Module/NOS Name, Code, Version | Outcomes | Assessment Marks | | Passing Percentage | |
|-------|---|--|------------------|-----|--------------------|-----|
| | | | Th. | Pr. | Th. | Pr. |
| | | <ul style="list-style-type: none"> • Interpret work requirements to allocate resources for smooth furniture finishing operations. • Demonstrate the ability to interpret finish process requirements by analyzing the finishing matrix/job card, ensuring alignment with specific finish processes. • Accurately select materials, tools, and equipment for furniture finishing tasks. • Demonstrate proficiency in selecting and applying the appropriate sanding paper grade based on job work requirements. • Perform the correct techniques for smoothing/sanding product surfaces using suitable tools and equipment. • Apply industry-standard coatings effectively, utilizing spray guns or brushes for precise application. • Execute thorough cleaning of brushes and spray guns after usage to ensure proper maintenance. • Perform detailed quality checks on furniture products, identifying and addressing defects based on organizational standards. | | | | |
| 15 | <p>Clean and maintain the finishing shop</p> <p>Mapped to FFS/N0907, v1.0</p> | <ul style="list-style-type: none"> • Describe packaging, storage, and tagging procedures in furniture finishing. • Explain procedures for cleaning the work area and maintaining tools and equipment. • State the significance of safety and organization in furniture finishing. • Discuss waste disposal guidelines, emphasizing environmental and safety considerations. | 4 | 20 | 70% | 70% |

| S. No | Module/NOS Name, Code, Version | Outcomes | Assessment Marks | | Passing Percentage | |
|--------------------|--------------------------------|--|------------------|------------|--------------------|-----|
| | | | Th. | Pr. | Th. | Pr. |
| | | <ul style="list-style-type: none"> • Demonstrate systematic packaging, tagging, and transferring of job work to the next phase, strictly following workplace procedures. • Use appropriate tools and equipment to effectively clean and maintain the furniture finishing shop. • Display proper techniques for storing hand and/or power tools and equipment, following workplace procedures for accessibility and organization. • Perform the disposal of unwanted materials in strict adherence to waste disposal procedures and environmental compliance guidelines. • Apply effective methods for recording and integrating inputs and feedback from supervisors into daily operations. • Demonstrate meticulous record-keeping skills to maintain accurate and up-to-date documents and notes in the furniture finishing shop. • Implement safety measures during packaging, cleaning, and disposal tasks to ensure a hazard-free environment. | | | | |
| Total Marks | | | 120 | 430 | 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 | Brushes | Types: Paint Brush, Cleaning Brush | 20 |
| 34 | Spray Guns | Types: Paint Spray Gun, Air Compressor Gun | 2 |
| 35 | Fillers | Types: Wood Filler, Gap Filler | 5 |
| 36 | Coatings | Types: Varnish, Paint, Sealant | 5 |
| 37 | Solvents | Types: Paint Thinner, Cleaning Solvent | 5 |
| 38 | Lubricants/Oils | Types: Lubricating Oil, Cutting Oil | 5 |

| | | | |
|----|-----------------------------------|---|---|
| 39 | Sanding Paper - 120 Grit-Plain | Grit: 120, Size: Standard sandpaper sheet | 1 |
| 40 | Sanding Paper - 180 Grit-Plain | Grit: 180, Size: Standard sandpaper sheet | 1 |
| 41 | Sanding Paper - 220 Grit-Plain | Grit: 220, Size: Standard sandpaper sheet | 1 |
| 42 | Sanding Paper - 400 Grit-Plain | Grit: 400, Size: Standard sandpaper sheet | 1 |

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.