

Model Curriculum

Machine Operator- Bamboo Slivering

SECTOR: FURNITURE & FITTINGS
SUB-SECTOR: Cane and Bamboo Furniture
OCCUPATION: Machining
REF ID: FFS/Q4105, V1.0
NSQF LEVEL: 3

Certificate

CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

is hereby issued by the

FURNITURE & FITTINGS SKILLS COUNCIL

for

MODEL CURRICULUM

Complying to National Occupational Standards of
Job Role/ Qualification Pack: '**Machine Operator-Bamboo Slivering**'
QP No. '**FFS/Q4105 , v1.0, NSQF Level 3**'

Date of Issuance: August 22nd, 2019

Valid up to*: September 22nd, 2022

*Valid up to the next review date of the Qualification Pack


Authorized Signatory
(Furniture & Fittings Skill Council)

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Machine Operator- Bamboo Slivering

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Machine Operator- Bamboo Slivering”, in the “Furniture & Fittings” Sector/Industry and aims at building the following key competencies amongst the learner.

Program Name	Machine Operator- Bamboo Slivering		
Qualification Pack Name & Reference ID	FFS/Q4105, V 1.0		
Version No.	1.0	Version Update Date	04/10/2019
Pre-requisites to Training	Class V		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Use basic tools, equipment and materials. • Organise the work area prior to commencement of work. • Operate and maintain the manual slivering machine. • Make the slivers using manual slivering machine. • Inspect the quality at different stages. • Maintain environment, health and safety. • Work effectively with team and other stakeholders. 		

This course encompasses 5 out of 5 NOS (National Occupational Standards), of “Machine Operator- Bamboo Slivering” Qualification Pack issued by “Furniture & Fittings Skill Council”.

Sr No	Module	Key Learning Outcomes	Equipment required
1	Introduction to the furniture and fittings industry Theory Duration (hh:mm) 08:00 Practical Duration (hh:mm) 00:00 Corresponding NOS Code Bridge Module	<ul style="list-style-type: none"> Discuss about the furniture and fittings industry Explain the role and responsibilities of slivering machine operator and its job opportunities in the industry Discuss about career path of slivering machine operator 	
2	Understanding the organizational context/ company/ employer Theory Duration (hh:mm) 08:00 Practical Duration (hh:mm) 00:00 Corresponding NOS Code FFS/N4109	<ul style="list-style-type: none"> Explain the importance of code of conduct, policies, manuals, rules, and regulation followed in a typical organization Describe organization structure and hierarchy followed in a typical organization Describe functions of different divisions/ teams of an organization 	
3	Health and safety at workplace Theory Duration (hh:mm) 04:00 Practical Duration (hh:mm) 04:00 Corresponding NOS Code FFS/N8601	<ul style="list-style-type: none"> Explain the importance of maintaining a healthy and safe work environment Differentiate between the potential risk, hazard and threat at the workplace List the safety, ergonomic, physical, biological, and chemical hazards at workplace Explain the precautionary measures to be taken to prevent different hazards Discuss the ways of undertaking the first aid activities in case of different types of accidents List various do's and don'ts of good housekeeping practices Explain various safety signs/ instructions 	Gloves, safety shoes, earplugs, goggles, nose mask, first aid box, different types of fire extinguisher

		<ul style="list-style-type: none"> Discuss the restrictions imposed on harmful materials while working at workplace 	
4	<p>Handling emergencies</p> <p>Theory Duration (hh:mm) 04:00</p> <p>Practical Duration (hh:mm) 04:00</p> <p>Corresponding NOS Code FFS/N8601</p>	<ul style="list-style-type: none"> List the precautionary measures for prevention of accidents at the workplace List various common causes and types of fires List the common types of fire extinguishers Demonstrate the use of fire extinguishers on different types of fires Describe the evacuation procedures to be followed in case of an emergency, accident, fire, or a natural calamity Demonstrate how to free a person from electrocution Demonstrate the correct rescue techniques applied during fire hazards Explain the importance of responding promptly and accurately to an accident situation 	<p>Gloves, safety shoes, earplugs, goggles, nose mask, first aid box, different types of fire extinguisher</p>
5	<p>Communication skills</p> <p>Theory Duration (hh:mm) 04:00</p> <p>Practical Duration (hh:mm) 04:00</p> <p>Corresponding NOS Code FFS/N8801</p>	<ul style="list-style-type: none"> State the importance of possessing effective communication skills Explain the importance of setting up good working relationship with others Explain the significance of active listening, correct receiving of information and instructions Describe the importance of seeking assistance/ clarification from supervisor/ senior Describe the importance of discipline, ethics, and integrity for professional success Explain the reporting protocol in case of queries on procedures, products, or any problem Demonstrate how to communicate effectively with others 	
6	<p>Teamwork</p> <p>Theory Duration (hh:mm) 04:00</p> <p>Practical Duration (hh:mm) 04:00</p> <p>Corresponding NOS Code FFS/N8801</p>	<ul style="list-style-type: none"> Discuss the importance of coordination with colleagues to achieve work objectives Explain the importance of sharing information with team wherever and whenever required to enhance quality and productivity at workplace Discuss how to manage interpersonal conflict Describe the significance of interacting politely with team members State the importance of following dress code at workplace 	

		<ul style="list-style-type: none"> Describe the importance of professional skills such as planning and organizing, problem solving, objection handling, and critical thinking Participate in team building activities effectively 	
7	<p>Understanding the work</p> <p>Theory Duration (hh:mm) 04:00</p> <p>Practical Duration (hh:mm) 24:00</p> <p>Corresponding NOS Code FFS/N4109</p>	<ul style="list-style-type: none"> List different types of furniture products in bamboo List different types of bamboo and its use in furniture making Explain bamboo treatment process List various relevant slivering techniques available in the industry Explain about types of sliver based on the size Demonstrate the preparation of work area List different tools, machine required for the operation Demonstrate the methods of doing basic safety checks for machine, tools, and electrical equipment before work 	<p>Bamboo cross cutting machine, hand held bamboo splitter, hot air gun, edge trimmer machine, hand engraver machine, stand drill machine, stand zig saw, chalk liner, slivering machine, compressor with machine; grinder machine, manual hard board cutter, table cutting machine, hammer</p>
8	<p>Machine operation understanding</p> <p>Theory Duration (hh:mm) 04:00</p> <p>Practical Duration (hh:mm) 16:00</p> <p>Corresponding NOS Code FFS/N4109</p>	<ul style="list-style-type: none"> List various types of slivering machine Explain the use of slivering machine List various parts of machine Demonstrate correct operation of the machine in both hand and power modes Describe the steps of stopping the machine in both normal and emergency situations, and the procedure for restarting after an emergency Demonstrate the method of stopping and restarting the machine during normal and emergency situations Demonstrate the process of making bamboo sliver using slivering machine 	<p>Bamboo cross cutting machine, hand held bamboo splitter, hot air gun, edge trimmer machine, hand engraver machine, stand drill machine, stand zig saw, chalk liner, slivering machine, compressor with machine; grinder machine, manual hard board cutter, table cutting machine, hammer</p>
9	<p>Operation and maintenance of manual slivering machine</p> <p>Theory Duration (hh:mm) 08:00</p> <p>Practical Duration (hh:mm) 32:00</p> <p>Corresponding NOS Code</p>	<ul style="list-style-type: none"> Explain about cleaning and maintenance schedule of the machine Explain about the importance of cleaning and maintenance of the machine Demonstrate the cleaning and maintenance procedures of machines Explain about effects of clamping and its effect on final product Explain about trial cut Demonstrate the trial cut procedure Demonstrate the method of checking dimension and size accuracy 	<p>Bamboo cross cutting machine, hand held bamboo splitter, hot air gun, edge trimmer machine, hand engraver machine, stand drill machine, stand zig saw, chalk liner, slivering machine, compressor with machine; grinder machine, manual hard board cutter, table cutting machine, hammer</p>

	FFS/N4110		
10	<p>Work Safely</p> <p>Theory Duration (hh:mm) 08:00</p> <p>Practical Duration (hh:mm) 26:00</p> <p>Corresponding NOS Code FFS/N4110</p>	<ul style="list-style-type: none"> List different personal protective equipment Demonstrate the use of personal protective equipment/ protective clothing Demonstrate how to keep correct body posture while standing, working, lifting and carrying heavy materials Explain the importance of leaving the machine in a safe condition on completion of activities Demonstrate the safe conditions of the machine after completion of the work Describe the hazards associated with cutting operations Demonstrate the method of minimising the hazards Demonstrate the correct method of sorting and storing of bamboo slivers Explain the importance of keeping work area free of clutters to carry out machining work smoothly 	Gloves, safety shoes, earplugs, goggles, nose mask, first aid box, different types of fire extinguisher
11	<p>Quality Check</p> <p>Theory Duration (hh:mm) 08:00</p> <p>Practical Duration (hh:mm) 22:00</p> <p>Corresponding NOS Code FFS/N8401</p>	<ul style="list-style-type: none"> Demonstrate the method of identifying defects and irregularities Demonstrate how to correct and modify the amendable or adjustable defects Explain the importance of carrying out quality checks at specified intervals Discuss the importance of ensuring that the final finish of the product is as per requirement and design specification 	Bamboo cross cutting machine, hand held bamboo splitter, hot air gun, edge trimmer machine, hand engraver machine, stand drill machine, stand zig saw, chalk liner, slivering machine, compressor with machine; grinder machine, manual hard board cutter, table cutting machine, hammer
	<p>Total Duration</p> <p>Theory Duration 64:00</p> <p>Practical Duration 136:00</p>	<p>Unique Equipment Required:</p> <p>Personal protective equipment: Gloves, safety shoes, earplugs, goggles, nose mask, first aid box, different types of fire extinguisher Bamboo cross cutting machine, hand held bamboo splitter, hot air gun, edge trimmer machine, hand engraver machine, stand drill machine, stand zig saw, chalk liner, slivering machine, compressor with machine; grinder machine, manual hard board cutter, table cutting machine, hammer</p> <p>Classroom Aids: Whiteboard, marker, duster etc.</p>	

Grand Total Course Duration: **200 Hours**

(This syllabus/ curriculum has been approved by **Furniture & Fittings Skill Council**)

Trainer Prerequisites for Job role: “Machine Operator- Bamboo Slivering” mapped to Qualification Pack: “FFS/Q4105”

Sr. No.	Area	Details
1	Description	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “ <u>FFS/Q4105</u> ”.
2	Personal Attributes	Aptitude for conducting training, and pre/ post work to ensure competent, employable candidates at the end of the training. Strong communication skills, interpersonal skills, ability to work as part of a team, well organized and focused, eager to learn and keep oneself updated with the latest trends in the mentioned field
3	Minimum Educational Qualifications	Minimum 10 th pass Minimum age 25 years
4a	Domain Certification	Certified for Job Role: “ <u>Machine Operator- Bamboo Slivering</u> ” mapped to QP: “ <u>FFS/Q4105</u> ”. Minimum accepted score 80% as per the FFSC guideline.
4b	Platform Certification	Recommended that the Trainer is certified for the Job Role: “Trainer”, mapped to the Qualification Pack: “MEP/Q2601”. Minimum accepted score as per respective FFSC guideline is 80%.
5	Experience	<ul style="list-style-type: none"> Minimum five years of relevant experience in slivering machine operation

Annexure: Assessment Criteria

Please refer to the QP PDF for the Assessment Criteria.