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SELF-ASSESSMENT GUIDE

Qualification	BAMBOO PROCESSING (ENGINEERED BAMBOO) NC II																	
Units of Competency Covered	<ul style="list-style-type: none"> • Perform basic bamboo processing • Carry out treatment of semi-processed bamboo materials • Perform kiln drying • Perform milling operation • Laminate bamboo materials • Produce engineered bamboo • Perform finishing 																	
Instruction:																		
<ul style="list-style-type: none"> • Read each question and check the appropriate column to indicate your answer. 																		
Can I?																YES	NO	
PERFORM BASIC BAMBOO PROCESSING																		
• Identify basic bamboo processes to be undertaken according to work requirement *																		
• Prepare tools, machines and/or equipment according to work specifications/requirements *																		
• Select and cut bamboo (from stock piles) according to specified length *																		
• Handle tools and/or operate equipment according to basic bamboo processes *																		
• Produce semi-processed bamboo materials (specifically slats, slivers, crushed bamboo) based on work specifications/requirements *																		
• Weave bamboo sliver according to desired weaving pattern and specifications *																		
• Gather and prepare semi-processed bamboo materials for treatment according to industry practice *																		
CARRY OUT TREATMENT OF SEMI-PROCESSED BAMBOO MATERIALS																		
• Classify different semi-processed bamboo materials																		
• Identify appropriate treatment methods according to type and quantity of semi-processed bamboo materials *																		
• Prepare tools, equipment and supplies (including preservatives) according to work requirements and treatment methods *																		
• Determine appropriate amount of preservative in accordance with dilution ratio *																		
• Prepare semi-processed bamboo materials according to appropriate treatment application *																		
• Demonstrate treatment of semi-processed bamboo materials *																		
• Demonstrate air drying of treated semi-processed bamboo materials according industry practice *																		

<ul style="list-style-type: none"> • Store dried treated semi-processed bamboo slats following standard procedures * 		
PERFORM KILN DRYING		
<ul style="list-style-type: none"> • Segregate semi-processed bamboo materials according to dimensions and types * 		
<ul style="list-style-type: none"> • Plan drying process (type of bamboo materials, piling, measures initial moisture content, temperature of kiln dryer, location of sample, no. of days for drying) and schedule * 		
<ul style="list-style-type: none"> • Demonstrate cleaning and checking of drying equipment (chamber, furnace, flow pipe) and accessories * 		
<ul style="list-style-type: none"> • Demonstrate selection and sampling of semi-processed bamboo materials * 		
<ul style="list-style-type: none"> • Demonstrate measuring of its initial moisture content and placing in proper location * 		
<ul style="list-style-type: none"> • Demonstrate proper loading of semi-processed bamboo materials in drying chamber * 		
<ul style="list-style-type: none"> • Discuss how baffles and blankets should be positioned in order to ensure uniform distribution of air flow * 		
<ul style="list-style-type: none"> • Demonstrate how to start operating a furnace kiln dryer * 		
<ul style="list-style-type: none"> • Discuss the procedure of monitoring moisture content and adjustment of kiln control setting based on monitoring result * 		
<ul style="list-style-type: none"> • Unload bamboo materials from the chamber following workplace procedures 		
<ul style="list-style-type: none"> • Identify good (free of cracks, free of defects) bamboo materials and demonstrate its piling and storing * 		
<ul style="list-style-type: none"> • Clean and inspect kiln drying equipment and accessories following workplace procedures * 		
PERFORM MILLING OPERATION		
<ul style="list-style-type: none"> • Prepare bamboo materials, tools and equipment for milling operation * 		
<ul style="list-style-type: none"> • Set-up machine by adjusting blade/s, checking blade's condition and machine mechanisms; and performs sample/test-cut * 		
<ul style="list-style-type: none"> • Mill bamboo materials using appropriate machine and according to job specifications (ex. specified dimensions) * 		
LAMINATE BAMBOO MATERIALS		
<ul style="list-style-type: none"> • Select and sort bamboo slats based on shade, thickness and product specifications * 		
<ul style="list-style-type: none"> • Prepare tools, laminating jigs, supplies, machines and laminating equipment according to work specification * 		
<ul style="list-style-type: none"> • Adjust pressing mechanism of laminating equipment according to product specifications and manufacturer's manual * 		
<ul style="list-style-type: none"> • Load glue and adjust glue spreader to ensure uniformity of glue application * 		
<ul style="list-style-type: none"> • Arrange bamboo materials according to standard operating procedures in preparation for glue application * 		

• Spread glue on bamboo materials evenly and completely, following standard operating procedures *		
• Place jig loaded with arranged glued bamboo materials in laminating machine *		
• Operate laminating machine according to operations manual *		
• Check alignment of bamboo materials and apply corrective measures or adjustments, if necessary *		
• Monitor proper operation by checking parameters such as setting time, pressure and temperature *		
• Unload jigs from laminating machine		
• Discuss the importance of curing of laminated bamboo materials according to standard operating procedures		
• Identify good and defective bamboo planks		
• Identify appropriate recovery measures to defective planks		
PRODUCE ENGINEERED BAMBOO		
• Verify job requirement based on drawing with product specifications *		
• Prepare materials, supplies, tools (cutting, measuring, tightening tools) machines and equipment according to product specification *		
• Prepare jigs by cleaning and setting-up		
• Mill bamboo planks and shape its components based on job specifications*		
• Prepare and profile workpiece according to specifications and using appropriate profile blades/cutter *		
• Lay-out location of joineries based on product design *		
• Make joineries using appropriate machine/tools based on product designs/job requirements *		
• Check fitness/measurements of joints and conformity of components to product specifications *		
• Assemble components using appropriate materials *		
• Check quality of end-products based on product specifications and apply corrective measures, if necessary *		
PERFORM FINISHING		
• Identify type of finish needed based on job requirement *		
• Prepare finishing materials, supplies, tools, machines and equipment according to work requirement *		
• Perform surface preparations (removing contaminants, defects identification and rectification, sanding) by using appropriate tools/equipment *		
• Determine required proportion of mixing finishing materials following product specifications *		
• Apply finishing materials according to job requirement *		
• Perform final check on quality of end-product if according to job requirement and apply corrective measures, if necessary *		

• Practice good housekeeping following principles of 5S principles		
PERFORM POST-ACTIVITIES		
• Segregate materials for re-use, recycling and disposal following workplace procedures		
• Clean and store tools/supplies/equipment/machine and work area following workplace procedures *		
• Identify unserviceable tools and equipment, if any *		
• Record output (number of produced semi-processed bamboo materials)*		
• Practice works safety and health measures when performing tasks *		
I agree to undertake assessment with the knowledge that information gathered will only be used for professional development purposes and can only be accessed by concerned assessment personnel and my manager/supervisor.		
Candidate's Name and Signature		Date