

Reference No.																			
---------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Reference No.																			
---------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SELF-ASSESSMENT GUIDE

Qualification	BAMBOO PROCESSING (ENGINEERED BAMBOO) NC II																	
Certificate of Competency (COC 1)	Perform Basic Bamboo Processing																	
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																		
<ul style="list-style-type: none"> Identify basic bamboo processes to be undertaken according to work requirement * 																		
<ul style="list-style-type: none"> Prepare tools, machines and/or equipment according to work specifications/requirements * 																		
<ul style="list-style-type: none"> Select and cut bamboo (from stock piles) according to specified length * 																		
<ul style="list-style-type: none"> Handle tools and/or operate equipment according to basic bamboo processes * 																		
<ul style="list-style-type: none"> Produce semi-processed bamboo materials (specifically slats, slivers, crushed bamboo) based on work specifications/requirements * 																		
<ul style="list-style-type: none"> Weave bamboo sliver according to desired weaving pattern and specifications * 																		
<ul style="list-style-type: none"> Gather and prepare semi-processed bamboo materials for treatment according to industry practice * 																		
PERFORM POST-ACTIVITIES																		
<ul style="list-style-type: none"> Segregate materials for re-use, recycling and disposal following workplace procedures 																		
<ul style="list-style-type: none"> Clean and store tools/supplies/equipment/machine and work area following workplace procedures * 																		
<ul style="list-style-type: none"> Identify unserviceable tools and equipment, if any * 																		
<ul style="list-style-type: none"> Record output (number of produced semi-processed bamboo materials)* 																		
<ul style="list-style-type: none"> 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		

Reference No.																			
---------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SELF-ASSESSMENT GUIDE

Qualification	BAMBOO PROCESSING (ENGINEERED BAMBOO) NC II		
Certificate of Competency (COC 2)	Carry Out Treatment Of Semi-Processed Bamboo Materials		
Instruction:			
<ul style="list-style-type: none"> Read each question and check the appropriate column to indicate your answer. 			
Can I?	YES	NO	
CARRY OUT TREATMENT OF SEMI-PROCESSED BAMBOO MATERIALS			
<ul style="list-style-type: none"> Classify different semi-processed bamboo materials 			
<ul style="list-style-type: none"> Identify appropriate treatment methods according to type and quantity of semi-processed bamboo materials * 			
<ul style="list-style-type: none"> Prepare tools, equipment and supplies (including preservatives) according to work requirements and treatment methods * 			
<ul style="list-style-type: none"> Determine appropriate amount of preservative in accordance with dilution ratio * 			
<ul style="list-style-type: none"> Prepare semi-processed bamboo materials according to appropriate treatment application * 			
<ul style="list-style-type: none"> Demonstrate treatment of semi-processed bamboo materials * 			
<ul style="list-style-type: none"> 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 POST-ACTIVITIES			
<ul style="list-style-type: none"> Segregate materials for re-use, recycling and disposal following workplace procedures 			
<ul style="list-style-type: none"> Clean and store tools/supplies/equipment/machine and work area following workplace procedures * 			
<ul style="list-style-type: none"> Identify unserviceable tools and equipment, if any * 			
<ul style="list-style-type: none"> Record output (number of produced semi-processed bamboo materials)* 			
<ul style="list-style-type: none"> 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

Reference No.																		
---------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SELF-ASSESSMENT GUIDE

Qualification	BAMBOO PROCESSING (ENGINEERED BAMBOO) NC II																	
Certificate of Competency (COC 3)	Perform Kiln Drying																	
Instruction:																		
<ul style="list-style-type: none"> Read each question and check the appropriate column to indicate your answer. 																		
Can I?																	YES	NO
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 POST-ACTIVITIES																		
<ul style="list-style-type: none"> Segregate materials for re-use, recycling and disposal following workplace procedures 																		
<ul style="list-style-type: none"> Clean and store tools/supplies/equipment/machine and work area following workplace procedures * 																		
<ul style="list-style-type: none"> Identify unserviceable tools and equipment, if any * 																		
<ul style="list-style-type: none"> 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	

Reference No.																			
---------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SELF-ASSESSMENT GUIDE

Qualification	BAMBOO PROCESSING (ENGINEERED BAMBOO) NC II																	
Certificate of Competency (COC 4)	Perform Milling And Produce Engineered Bamboo																	
Units of Competency Covered	<ul style="list-style-type: none"> • Perform milling operation • Produce engineered bamboo 																	
Instruction:																		
<ul style="list-style-type: none"> • Read each question and check the appropriate column to indicate your answer. 																		
Can I?																YES	NO	
PERFORM MILLING OPERATION																		
• Prepare bamboo materials, tools and equipment for milling operation *																		
• Set-up machine by adjusting blade/s, checking blade's condition and machine mechanisms; and performs sample/test-cut *																		
• Mill bamboo materials using appropriate machine and according to job specifications (ex. specified dimensions) *																		
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 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

Reference No.																		
---------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SELF-ASSESSMENT GUIDE

Qualification	BAMBOO PROCESSING (ENGINEERED BAMBOO) NC II																	
Certificate of Competency (COC 5)	Laminate Bamboo Materials																	
Instruction:																		
<ul style="list-style-type: none"> Read each question and check the appropriate column to indicate your answer. 																		
Can I?																YES	NO	
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 * 																		
<ul style="list-style-type: none"> Spread glue on bamboo materials evenly and completely, following standard operating procedures * 																		
<ul style="list-style-type: none"> Place jig loaded with arranged glued bamboo materials in laminating machine * 																		
<ul style="list-style-type: none"> Operate laminating machine according to operations manual * 																		
<ul style="list-style-type: none"> Check alignment of bamboo materials and apply corrective measures or adjustments, if necessary * 																		
<ul style="list-style-type: none"> Monitor proper operation by checking parameters such as setting time, pressure and temperature * 																		
<ul style="list-style-type: none"> Unload jigs from laminating machine 																		
<ul style="list-style-type: none"> Discuss the importance of curing of laminated bamboo materials according to standard operating procedures 																		
<ul style="list-style-type: none"> Identify good and defective bamboo planks 																		
<ul style="list-style-type: none"> Identify appropriate recovery measures to defective planks 																		
PRODUCE ENGINEERED BAMBOO																		
<ul style="list-style-type: none"> Verify job requirement based on drawing with product specifications * 																		
<ul style="list-style-type: none"> Prepare materials, supplies, tools (cutting, measuring, tightening tools) machines and equipment according to product specification * 																		
<ul style="list-style-type: none"> Prepare jigs by cleaning and setting-up 																		
<ul style="list-style-type: none"> 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 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

Reference No.																			
---------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SELF-ASSESSMENT GUIDE

Qualification	BAMBOO PROCESSING (ENGINEERED BAMBOO) NC II																	
Certificate of Competency (COC 6)	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 FINISHING																		
<ul style="list-style-type: none"> Identify type of finish needed based on job requirement * 																		
<ul style="list-style-type: none"> Prepare finishing materials, supplies, tools, machines and equipment according to work requirement * 																		
<ul style="list-style-type: none"> Perform surface preparations (removing contaminants, defects identification and rectification, sanding) by using appropriate tools/equipment * 																		
<ul style="list-style-type: none"> Determine required proportion of mixing finishing materials following product specifications * 																		
<ul style="list-style-type: none"> Apply finishing materials according to job requirement * 																		
<ul style="list-style-type: none"> Perform final check on quality of end-product if according to job requirement and apply corrective measures, if necessary * 																		
PERFORM POST-ACTIVITIES																		
<ul style="list-style-type: none"> Segregate materials for re-use, recycling and disposal following workplace procedures 																		
<ul style="list-style-type: none"> Record output and perform inventory of storage of supplies and materials 																		
<ul style="list-style-type: none"> Clean and store tools/supplies/equipment/machine and work area following workplace procedures * 																		
<ul style="list-style-type: none"> Practice good housekeeping following principles of 5S principles 																		
<ul style="list-style-type: none"> 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		