Reference No.								

Qualification BAMBOO PROCESSING (ENGINEERED BAMBOO) NC I								
<ul> <li>Perform basic bamboo processing</li> <li>Carry out treatment of semi-processed bamboo materials</li> <li>Perform kiln drying</li> <li>Perform milling operation</li> <li>Laminate bamboo materials</li> <li>Produce engineered bamboo</li> <li>Perform finishing</li> </ul>								
Instruction:	on and check the appropriate column to indicate you		vor					
Can I?	in and check the appropriate column to indicate you	YES	<b>NO</b>					
PERFORM BASIC BAMB		123						
<ul><li>requirement *</li><li>Prepare tools, mach</li></ul>	processes to be undertaken according to work							
<ul> <li>specifications/requirements *</li> <li>Select and cut bamboo (from stock piles) according to specified length *</li> </ul>								
	operate equipment according to basic bamboo							
<ul> <li>Produce semi-process crushed bamboo) base</li> </ul>								
specifications *	er according to desired weaving pattern and							
<ul> <li>Gather and prepare s according to industry p</li> </ul>								
CARRY OUT TREATMEN	IT OF SEMI-PROCESSED BAMBOO MATERIALS	5						
Classify different semi-	processed bamboo materials							
<ul> <li>Identify appropriate treasemi-processed bambo</li> </ul>	atment methods according to type and quantity of oo materials *							
according to work requ	ment and supplies (including preservatives) irements and treatment methods *							
Determine appropriate amount of preservative in accordance with dilution ratio *								
Prepare semi-process     treatment application *	ed bamboo materials according to appropriate							
Demonstrate treatment	of semi-processed bamboo materials *							
Demonstrate air dryin according industry prace	g of treated semi-processed bamboo materials trice *							

<ul> <li>Store dried treated semi-processed bamboo slats following standard procedures *</li> </ul>	
PERFORM KILN DRYING	
<ul> <li>Segregate semi-processed bamboo materials according to dimensions and types *</li> </ul>	
<ul> <li>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 *</li> </ul>	
Demonstrate cleaning and checking of drying equipment (chamber, furnace, flow pipe) and accessories *	
<ul> <li>Demonstrate selection and sampling of semi-processed bamboo materials *</li> </ul>	
<ul> <li>Demonstrate measuring of its initial moisture content and placing in proper location *</li> </ul>	
<ul> <li>Demonstrate proper loading of semi-processed bamboo materials in drying chamber *</li> </ul>	
Discuss how baffles and blankets should be positioned in order to ensure uniform distribution of air flow *	
<ul> <li>Demonstrate how to start operating a furnace kiln dryer *</li> </ul>	
<ul> <li>Discuss the procedure of monitoring moisture content and adjustment of kiln control setting based on monitoring result *</li> </ul>	
Unload bamboo materials from the chamber following workplace procedures	
<ul> <li>Identify good (free of cracks, free of defects) bamboo materials and demonstrate its piling and storing *</li> </ul>	
<ul> <li>Clean and inspect kiln drying equipment and accessories following workplace procedures *</li> </ul>	
PERFORM MILLING OPERATION	
<ul> <li>Prepare bamboo materials, tools and equipment for milling operation *</li> </ul>	
<ul> <li>Set-up machine by adjusting blade/s, checking blade's condition and machine mechanisms; and performs sample/test-cut *</li> </ul>	
<ul> <li>Mill bamboo materials using appropriate machine and according to job specifications (ex. specified dimensions) *</li> </ul>	
LAMINATE BAMBOO MATERIALS	
<ul> <li>Select and sort bamboo slats based on shade, thickness and product specifications *</li> </ul>	
<ul> <li>Prepare tools, laminating jigs, supplies, machines and laminating equipment according to work specification *</li> </ul>	
<ul> <li>Adjust pressing mechanism of laminating equipment according to product specifications and manufacturer's manual *</li> </ul>	
<ul> <li>Load glue and adjust glue spreader to ensure uniformity of glue application *</li> </ul>	
<ul> <li>Arrange bamboo materials according to standard operating procedures in preparation for glue application *</li> </ul>	

	<del> </del>
<ul> <li>Spread glue on bamboo materials evenly and completely, following standard operating procedures *</li> </ul>	
<ul> <li>Place jig loaded with arranged glued bamboo materials in laminating machine *</li> </ul>	
Operate laminating machine according to operations manual *	
<ul> <li>Check alignment of bamboo materials and apply corrective measures or adjustments, if necessary *</li> </ul>	
<ul> <li>Monitor proper operation by checking parameters such as setting time, pressure and temperature *</li> </ul>	
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	
<ul> <li>Identify appropriate recovery measures to defective planks</li> </ul>	
PRODUCE ENGINEERED BAMBOO	
Verify job requirement based on drawing with product specifications *	
<ul> <li>Prepare materials, supplies, tools (cutting, measuring, tightening tools) machines and equipment according to product specification *</li> </ul>	
<ul> <li>Prepare jigs by cleaning and setting-up</li> </ul>	
<ul> <li>Mill bamboo planks and shape its components based on job specifications*</li> </ul>	
<ul> <li>Prepare and profile workpiece according to specifications and using appropriate profile blades/cutter *</li> </ul>	
<ul> <li>Lay-out location of joineries based on product design *</li> </ul>	
<ul> <li>Make joineries using appropriate machine/tools based on product designs/job requirements *</li> </ul>	
<ul> <li>Check fitness/measurements of joints and conformity of components to product specifications *</li> </ul>	
<ul> <li>Assemble components using appropriate materials *</li> </ul>	
<ul> <li>Check quality of end-products based on product specifications and apply corrective measures, if necessary *</li> </ul>	
PERFORM FINISHING	1
<ul> <li>Identify type of finish needed based on job requirement *</li> </ul>	
<ul> <li>Prepare finishing materials, supplies, tools, machines and equipment according to work requirement *</li> </ul>	
<ul> <li>Perform surface preparations (removing contaminants, defects identification and rectification, sanding) by using appropriate tools/equipment *</li> </ul>	
<ul> <li>Determine required proportion of mixing finishing materials following product specifications *</li> </ul>	
<ul> <li>Apply finishing materials according to job requirement *</li> </ul>	
<ul> <li>Perform final check on quality of end-product if according to job requirement and apply corrective measures, if necessary *</li> </ul>	

<ul> <li>Practice good housekeeping following principles of 5S principles</li> </ul>						
PERFORM POST-ACTIVITIES						
<ul> <li>Segregate materials for re-use, recycling and disposal followin workplace procedures</li> </ul>	9					
Clean and store tools/supplies/equipment/machine and work area following workplace procedures *						
<ul> <li>Identify unserviceable tools and equipment, if any *</li> </ul>						
<ul> <li>Record output (number of produced semi-processed bamboo materials)*</li> </ul>						
<ul> <li>Practice works safety and health measures when performing tasks *</li> </ul>						
I agree to undertake assessment with the knowledge that information gathered be used for professional development purposes and can only be accessed by a assessment personnel and my manager/supervisor.						
Candidate's Name and Signature	Date					

Reference No.								

Qualification BAMBOO PROCESSING (ENGINEERED BAMBOO) NO						
Certificate of Competency (COC 1) Perform Basic Bamboo Processing						
<ul><li>Instruction:</li><li>Read each questio</li></ul>	n and check the appropriate column to indi	cate your	answ	ver.		
Can I?		Y	′ES	NO		
PERFORM BASIC BAMB	OO PROCESSING					
requirement *	processes to be undertaken according to	o work				
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 *						
<ul> <li>Produce semi-processed bamboo materials (specifically slats, slivers, crushed bamboo) based on work specifications/requirements *</li> </ul>						
<ul> <li>Weave bamboo sliver according to desired weaving pattern and specifications *</li> </ul>						
Gather and prepare semi-processed bamboo materials for treatment according to industry practice *						
PERFORM POST-ACTIVITIES						
Segregate materials for re-use, recycling and disposal following workplace procedures						
<ul> <li>Clean and store too following workplace pro</li> </ul>	ls/supplies/equipment/machine and work cedures *	area				
<ul> <li>Identify unserviceable to</li> </ul>	ools and equipment, if any *					
<ul> <li>Record output (num materials)*</li> </ul>	ber of produced semi-processed ba	amboo				
<ul> <li>Practice works safety a</li> </ul>	nd health measures when performing tasks	S *				
I agree to undertake asse only be used for profession concerned assessment per	-					
Candidate	e's Name and Signature	D	ate			

Reference No.
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Qualification         BAMBOO PROCESSING (ENGINEERED BAMBOO) NC II							
Certificate of Competency (COC 2) Carry Out Treatment Of Semi-Processed Bambo							
Instruction:	tion and charly the annuantista column to ind	laata va					
Read each question and check the appropriate column to indicate you							
Can I?			YES	NO			
CARRY OUT TREATMENT OF SEMI-PROCESSED BAMBOO MATERIALS							
Classify different semi-processed bamboo materials							
<ul> <li>Identify appropriate treatment methods according to type and quantity of semi-processed bamboo materials *</li> </ul>							
<ul> <li>Prepare tools, equipment and supplies (including preservatives) according to work requirements and treatment methods *</li> </ul>							
<ul> <li>Determine appropriate amount of preservative in accordance with dilution ratio *</li> </ul>							
Prepare semi-processed bamboo materials according to appropriate treatment application *							
<ul> <li>Demonstrate treatment of semi-processed bamboo materials *</li> </ul>							
<ul> <li>Demonstrate air drying of treated semi-processed bamboo materials according industry practice *</li> </ul>							
<ul> <li>Store dried treated semi-processed bamboo slats following standard procedures *</li> </ul>							
PERFORM POST-ACTI	VITIES						
Segregate materials for re-use, recycling and disposal following workplace procedures							
<ul> <li>Clean and store to following workplace p</li> </ul>	ools/supplies/equipment/machine and work procedures *	k area					
Identify unserviceable	e tools and equipment, if any *						
<ul> <li>Record output (n materials)*</li> </ul>	umber of produced semi-processed b	amboo					
Practice works safety	/ and health measures when performing task	s *					
I agree to undertake as only be used for profes concerned assessment							
			_				
Candid	ate's Name and Signature		Date				

Reference No.								

Qualification	BAMBOO PROCESSING (ENGINEERED BAME	300) N	CII			
Certificate of Competency (COC 3)	Perform Kiln Drying					
Instruction:						
· · · ·	n and check the appropriate column to indicate yo	1 1				
Can I?		YES	NO			
PERFORM KILN DRYING						
<ul> <li>Segregate semi-proces and types *</li> </ul>	sed bamboo materials according to dimensions					
	vpe of bamboo materials, piling, measures initial perature of kiln dryer, location of sample, no. of nedule *					
• Demonstrate cleaning furnace, flow pipe) and	and checking of drying equipment (chamber, accessories *					
<ul> <li>Demonstrate selection materials *</li> </ul>	n and sampling of semi-processed bamboo					
<ul> <li>Demonstrate measurin proper location *</li> </ul>	g of its initial moisture content and placing in					
<ul> <li>Demonstrate proper loading of semi-processed bamboo materials in drying chamber *</li> </ul>						
Discuss how baffles and blankets should be positioned in order to ensure uniform distribution of air flow *						
Demonstrate how to sta	art operating a furnace kiln dryer *					
	of monitoring moisture content and adjustment of ed on monitoring result *					
<ul> <li>Unload bamboo mate procedures</li> </ul>	erials from the chamber following workplace					
<ul> <li>Identify good (free of demonstrate its piling a</li> </ul>	cracks, free of defects) bamboo materials and nd storing *					
<ul> <li>Clean and inspect kill workplace procedures *</li> </ul>	n drying equipment and accessories following					
PERFORM POST-ACTIVI	TIES					
<ul> <li>Segregate materials workplace procedures</li> </ul>	for re-use, recycling and disposal following					
<ul> <li>Clean and store too following workplace pro</li> </ul>	ls/supplies/equipment/machine and work area					
Identify unserviceable t	ools and equipment, if any *					
<ul> <li>Record output (num materials)*</li> </ul>	ber of produced semi-processed bamboo					

Practice works safety and health measures when performing tasks	S *		
I agree to undertake assessment with the knowledge that informat only be used for professional development purposes and can only concerned assessment personnel and my manager/supervisor.	0		
Candidate's Name and Signature		Date	

Qualification	BAMBOO PROCESSING (ENGINEERED BAME	800) N									
Certificate of Competency (COC 4)	Competency (COC 4) Perform Milling And Produce Engineered Bamboo										
Units of Competency Covered	<ul><li>Perform milling operation</li><li>Produce engineered bamboo</li></ul>										
<ul><li>Instruction:</li><li>Read each questio</li></ul>	n and check the appropriate column to indicate you	ur ansv	ver.								
Can I?		YES	NO								
PERFORM MILLING OPE	RATION										
Prepare bamboo mater	ials, tools and equipment for milling operation *										
<ul><li>machine mechanisms;</li><li>Mill bamboo materials</li></ul>	justing blade/s, checking blade's condition and and performs sample/test-cut * using appropriate machine and according to job										
specifications (ex. spec PRODUCE ENGINEERED											
Prepare materials, supplementations	based on drawing with product specifications * plies, tools (cutting, measuring, tightening tools) nt according to product specification *										
Prepare jigs by cleaning	and setting-up										
specifications*	and shape its components based on job orkpiece according to specifications and using										
appropriate profile blade											
Lay-out location of joine	ries based on product design *		<u> </u>								
designs/job requirement			1								
product specifications *	ments of joints and conformity of components to										
•	using appropriate materials *										
<ul> <li>Check quality of end-pro corrective measures, if</li> </ul>	oducts based on product specifications and apply necessary *		L								
PERFORM POST-ACTIVI											
workplace procedures	for re-use, recycling and disposal following										
following workplace pro											
<ul> <li>Identify unserviceable to</li> </ul>	ools and equipment, if any *										

Candidate's Name and Signature	Date					
I agree to undertake assessment with the knowledge that information gathered will or be used for professional development purposes and can only be accessed by concern assessment personnel and my manager/supervisor.						
Practice works safety and health measures when performing tasks *						
Record output (number of produced semi-processed bamboo materials)						

Reference No.																
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Qualification BAMBOO PROCESSING (ENGINEERED BAMBOO) NC						
Certificate of Competency (COC 5)	Laminate Bamboo Materials					
Instruction:						
Read each questio						
Can I?		YES	NO			
LAMINATE BAMBOO MA						
<ul> <li>Select and sort bambo specifications *</li> </ul>						
Prepare tools, lamina equipment according to						
<ul> <li>Adjust pressing mechan specifications and man</li> </ul>	nism of laminating equipment according to product ufacturer's manual *					
<ul> <li>Load glue and adjust application *</li> </ul>						
<ul> <li>Arrange bamboo mater in preparation for glue a</li> </ul>	rials according to standard operating procedures application *					
<ul> <li>Spread glue on bamb standard operating proc</li> </ul>						
<ul> <li>Place jig loaded with machine *</li> </ul>	arranged glued bamboo materials in laminating					
Operate laminating ma	chine according to operations manual *					
<ul> <li>Check alignment of bar adjustments, if necessar</li> </ul>	mboo materials and apply corrective measures or ary *					
<ul> <li>Monitor proper operation pressure and temperation</li> </ul>						
Unload jigs from lamina	iting machine					
<ul> <li>Discuss the importan according to standard or</li> </ul>	ce of curing of laminated bamboo materials operating procedures					
Identify good and defect						
Identify appropriate rec	overy measures to defective planks					
PRODUCE ENGINEERED	BAMBOO	<u> </u>				
Verify job requirement b	based on drawing with product specifications *					
<ul> <li>Prepare materials, supplies, tools (cutting, measuring, tightening tools) machines and equipment according to product specification *</li> </ul>						
Prepare jigs by cleaning						
<ul> <li>Mill bamboo planks specifications*</li> </ul>	and shape its components based on job					

<ul> <li>Prepare and profile workpiece according to specifications and appropriate profile blades/cutter *</li> </ul>	using						
<ul> <li>Lay-out location of joineries based on product design *</li> </ul>							
<ul> <li>Make joineries using appropriate machine/tools based on p designs/job requirements *</li> </ul>	roduct						
<ul> <li>Check fitness/measurements of joints and conformity of compone product specifications *</li> </ul>	ents to						
<ul> <li>Assemble components using appropriate materials *</li> </ul>							
<ul> <li>Check quality of end-products based on product specifications and corrective measures, if necessary *</li> </ul>	l apply						
PERFORM POST-ACTIVITIES							
<ul> <li>Segregate materials for re-use, recycling and disposal following workplace procedures</li> </ul>							
<ul> <li>Clean and store tools/supplies/equipment/machine and work following workplace procedures *</li> </ul>	area						
<ul> <li>Identify unserviceable tools and equipment, if any *</li> </ul>							
Record output (number of produced semi-processed bamboo mate	erials)*						
Practice works safety and health measures when performing tasks	*						
I agree to undertake assessment with the knowledge that information be used for professional development purposes and can only be access assessment personnel and my manager/supervisor.							
Candidate's Name and Signature		Date					

Reference No.																
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Qualification BAMBOO PROCESSING (ENGINEERED BAMBOO) NC II										
Certificate of Competency (COC 6)	Portorm Finishind									
Instruction:										
	n and check the appropriate column to indi	cate you								
Can I?		YES	NO							
PERFORM FINISHING										
<ul> <li>Identify type of finish ne</li> </ul>										
<ul> <li>Prepare finishing mate according to work requi</li> </ul>	pment									
<ul> <li>Perform surface pre- identification and re- tools/equipment *</li> </ul>	lefects opriate									
<ul> <li>Determine required pr product specifications *</li> </ul>	lowing									
<ul> <li>Apply finishing materials according to job requirement *</li> </ul>										
<ul> <li>Perform final check of requirement and apply</li> </ul>	to job									
PERFORM POST-ACTIVI	TIES									
<ul> <li>Segregate materials workplace procedures</li> </ul>	for re-use, recycling and disposal fol	lowing								
Record output and perfetence	orm inventory of storage of supplies and ma	terials								
<ul> <li>Clean and store too following workplace pro</li> </ul>	area									
Practice good housekee	eping following principles of 5S principles									
Practice works safety a	s *									
I agree to undertake assessment with the knowledge that information gathered be used for professional development purposes and can only be accessed by c assessment personnel and my manager/supervisor.										
Candidate		Date								