Reference No.								

Qualification	MACHINING NC I		
Units of Competency Covered	 Perform bench work (basic) Turn workpiece Mill workpiece Grind workpiece Shape workpiece Repair workpiece 		
Instruction:		ur onov	
Can I?	n and check the appropriate column to indicate you	YES	ver. NO
PERFORM BENCH WORK	K (BASIC)		
	heck benchwork materials, tools and supplies as		
 Sharpen cutting and m work safety standards * 			
Check dimensions of tool/s *			
 Perform required ben according to industry st 			
Measure workpiece acc	cording to drawing specifications *		
TURN WORKPIECE			
 Interpret drawing of turn 	ning work and clarify the task required *		
Plan sequence of turnir	ng operation according to drawing specifications *		
Prepare and inspect ma	aterials, tools and supplies based on drawing *		
Test run machine to be	used *		
Prepare cutting tools ar	nd measuring tools needed in operation *		
Identify defective turn was a second of the second of	ork piece and tools *		
Determine material suit	able to the machine *		
Mount material on chuck	k according to work requirements *		
Use centering instrume	nts according to material requirements *		
Select cutting tools and	holders according to job requirements *		
Mount cutting tools to the state of the	ne holder following industry standards *		
	n the tool post following established industry		

•	Align cutting tool to the tail stock and centering gauge following established industry practices *	
•	Set-up lathe accordingly to calculated speeds and feeds *	
•	Use lathe accessories, if required	
•	Operate lathe according to job specifications *	
•	Monitor performance of the machine and cutting tools based on the manufacturer's manual *	
•	Check and measure workpiece during turning operation, according to work specifications *	
•	Perform quality check of finished workpiece according to industry procedure *	
M	LL WORKPIECE	
•	Interpret drawing of vertical milling work and clarifie the task required *	
•	Plan sequence of milling operation according to drawing specifications *	
•	Prepare and inspect materials, tools and supplies based on drawing *	
•	Test run machine to be used *	
•	Prepare cutting tools and measuring tools needed in operation *	
•	Determine material suitable to the machine *	
•	Mount, align and clamp machine vice to machine table *	
•	Mount and center workpiece on machine vice according to industry standards *	
•	Select cutting tools and holders according to job requirements *	
•	Mount cutting tools to the holder following industry standards *	
•	Set-up milling machine according to calculated speeds and feeds *	
•	Use milling machine accessories, if required	
•	Operate milling machine according to job specifications *	
•	Monitor and identify performance of the machine and cutting tools based on the manufacturer's manual *	
•	Check and measure workpiece during milling operation, according to work specifications *	
•	Perform quality check of finished workpiece according to industry procedure *	
GI	RIND WORKPIECE	
•	Interpret drawing of grinding work and clarify the task required *	
•	Plan sequence of grinding operation according to drawing specifications*	
•	Prepare and inspect materials, tools and supplies based on drawing *	
•	Determine workpiece suitable to grinding machine *	

•	Prepare grinding wheels and measuring tools needed in operation *	
•	Test run machine to be used *	
•	Mount workpiece on magnetic plate according to work requirements *	
•	Use precision vise to hold workpiece, if required *	
•	Use grinding machine accessories, if required *	
•	Operate grinding machine according to job specifications *	
•	Monitor and identify performance of grinding wheel based on the industry standards *	
•	Check and measure workpiece during grinding operation, according to work specifications *	
•	Perform quality check of finished workpiece according to industry procedure *	
SH	HAPE WORKPIECE	
•	Interpret drawing of shaping work and clarify the task required *	
•	Plan sequence of shaping operation according to drawing specifications*	
•	Prepare and inspect materials, tools and supplies based on drawing *	
•	Test run machine to be used *	
•	Prepare cutting tools and measuring tools needed in operation *	
•	Determine appropriateness of material to machine *	
•	Mount material on vise according to work requirements *	
•	Select cutting tools and holders according to job requirements *	
•	Mount cutting tools to the holder following industry standards *	
•	Mount tool holder on the tool post following established industry practices *	
•	Set-up length of stroke of shaper according to workpiece length *	
•	Use shaper accessories, if required *	
•	Operate shaper according to job specifications *	
•	Monitor performance of the machine and cutting tools based on the manufacturer's manual *	
•	Check and measure workpiece during turning operation, according to work specifications *	
•	Perform quality check of finished workpiece according to industry procedure *	
RE	EPAIR WORKPIECE	
•	Identify job repair needed based on drawing *	

•	Prepare workpiece, tools, materials, and electric welding machine according to industry standards *	Э						
•	Set-up welding machine in accordance with manufacturer's instructions	+						
•	Position holding devices in conformity with job requirements *							
•	Demonstrate tack welding and root pass in accordance with drawing *							
•	Clean root pass from slugs and defects *							
•	Inspect welded workpiece based on work specifications							
•	Repair defective weld in workpiece following work specifications *							
•	Check quality of welded workpiece according to specifications *							
PE	ERFORM POST- ACTIVITIES							
•	Shutdown machines according to manufacturer's manual *							
•								
•	Э							
•	Perform good housekeeping following 5S *							
•	Dispose wastes according to waste management procedures and environmental regulations *	k						
•	Accomplish checklist of workpiece specifications *							
•	Practice works safety and health measures when performing tasks *							
on	I agree to undertake assessment with the knowledge that information gath only be used for professional development purposes and can only be acconcerned assessment personnel and my manager/supervisor.							
	Candidate's Name and Signature							

Reference No.								

Qualification	MACHINING NC I		
Certificate of Competency (COC 1)	Perform Turning Operation		
Units of Competency Covered	Perform bench work (basic)Turn workpieceRepair workpiece		
Instruction: • Read each questi	ion and check the appropriate column to indicate you	ur ansv	ver.
Can I?		YES	NO
PERFORM BENCH WOR	RK (BASIC)		
 Interpret drawing and required * 			
 Sharpen cutting and r work safety standards 			
 Check dimensions of tool/s * 			
 Perform required be according to industry 			
Measure workpiece a			
TURN WORKPIECE			
 Interpret drawing of tu 	rning work and clarify the task require *		
Plan sequence of turn	ing operation according to drawing specifications *		
Prepare and inspect n	naterials, tools and supplies based on drawing *		
Test run machine to b	e used *		
Prepare cutting tools a	and measuring tools needed in operation *		
Identify defective turn	work piece and tools *		
Determine material su	itable to the machine *		
Mount material on chu	uck according to work requirements *		
Use centering instrum	ents according to material requirements *		
Select cutting tools ar	nd holders according to job requirements *		
Mount cutting tools to	the holder following industry standards *		
Mount tool holder practices *			
 Align cutting tool to established industry p 	the tail stock and centering gauge following ractices *		

•								
•	Use lathe accessories, if required							
•	Operate lathe according to job specifications *							
•	Monitor performance of the machine and cutting tools based on t manufacturer's manual *	:he						
•	Check and measure workpiece during turning operation, according work specifications *	to						
•	Perform quality check of finished workpiece according to indus procedure *	try						
RE	EPAIR WORKPIECE							
•	Identify job repair needed based on drawing *							
•	Prepare workpiece, tools, materials, and electric welding machi according to industry standards *	ine						
•	Set-up welding machine in accordance with manufacturer's instruction	าร*						
•	Position holding devices in conformity with job requirements *							
•	Demonstrate tack welding and root pass in accordance with drawing *							
•	Clean root pass from slugs and defects *							
•	Inspect welded workpiece based on work specifications							
Repair defective weld in workpiece following work specifications *								
•								
PC	OST- ACTIVITIES							
•	Shutdown machines according to manufacturer's manual *							
•	Maintain and store tools based on established procedures *							
•	Tag and report defective tools and machines according to workpla procedures, if any *	ice						
•	Perform good housekeeping following 5S *							
•	Dispose wastes according to waste management procedures a environmental regulations *	nd						
•	Accomplish checklist of workpiece specifications *							
•	Practice works safety and health measures when performing tasks *							
on	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	ı	Date					

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Qualification	MACHINING NC I									
Certificate of Competency (COC 2)	Perform Milling Operation									
Units of Competency Covered	Perform bench work (basic)Mill workpieceRepair workpiece									
Instruction:Read each question	n and check the appropriate column to indicate you	ur ansv	ver.							
Can I?		YES	NO							
PERFORM BENCH WOR	K (BASIC)									
Interpret drawing and crequired *	check benchwork materials, tools and supplies as									
 Sharpen cutting and m work safety standards? 										
Check dimensions of tool/s *										
 Perform required bench work operations based on drawing, and according to industry standards * 										
Measure workpiece acc										
MILL WORKPIECE										
 Interpret drawing of ver 	tical milling work and clarify the task required *									
Plan sequence of milling	g operation according to drawing specifications *									
Prepare and inspect ma	aterials, tools and supplies based on drawing *									
Test run machine to be	used *									
Prepare cutting tools are	nd measuring tools needed in operation *									
Determine material suit	able to the machine *									
Mount, align and clamp	machine vice to machine table *									
 Mount and center wo standards * 	rkpiece on machine vice according to industry									
Select cutting tools and	I holders according to job requirements *									
Mount cutting tools to the state of the	he holder following industry standards *									
Set-up milling machine	according to calculated speeds and feeds *									
Use milling machine ac	cessories, if required									
Operate milling machin	Operate milling machine according to job specifications *									

•	Monitor and identify performance of the machine and cutting based on the manufacturer's manual *	tools						
•	Check and measure workpiece during milling operation, accord	ing to						
	work specifications *	duotra						
•	Perform quality check of finished workpiece according to in- procedure *	uusiiy						
RE	EPAIR WORKPIECE							
•	Identify job repair needed based on drawing *							
•	Prepare workpiece, tools, materials, and electric welding maccording to industry standards *	achine						
•	Set-up welding machine in accordance with manufacturer's instruc	tions*						
•	Position holding devices in conformity with job requirements *							
•	Demonstrate tack welding and root pass in accordance with drawir	ng *						
•	Clean root pass from slugs and defects *							
•	Inspect welded workpiece based on work specifications							
•	Repair defective weld in workpiece following work specifications *							
•	Check quality of welded workpiece according to specifications *							
PE	ERFORM POST- ACTIVITIES							
•	Shutdown machines according to manufacturer's manual *							
•	Maintain and store tools based on established procedures *							
•	Tag and report defective tools and machines according to work procedures, if any *	kplace						
•	Perform good housekeeping following 5S *							
•	Dispose wastes according to waste management procedures environmental regulations *	s and						
•	Accomplish checklist of workpiece specifications *							
•	Practice works safety and health measures when performing tasks	*						
on	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.								

Qualification	MACHINING NC I							
Certificate of Competency (COC 3)	Perform Surface Grinding Operation							
 Perform bench work (basic) Grind workpiece Repair workpiece 								
Instruction:Read each question	ur ansv	ver.						
Can I?		YES	NO					
PERFORM BENCH WOR	K (BASIC)							
 Interpret drawing and crequired * 	check benchwork materials, tools and supplies as							
	Sharpen cutting and marking tools according to industry procedure and work safety standards *							
Check dimensions of tool/s *	materials needed using appropriate measuring		1					
 Perform required ber according to industry st 	nch work operations based on drawing, and candards *		<u> </u>					
Measure workpiece acc	cording to drawing specifications *							
GRIND WORKPIECE								
Interpret drawing of grir	nding work and clarify the task required *							
 Plan sequence of specifications* 								
Prepare and inspect ma	Prepare and inspect materials, tools and supplies based on drawing *							
Determine workpiece suitable to grinding machine *								
Prepare grinding wheels and measuring tools needed in operation *								
Test run machine to be	Test run machine to be used *							
Mount workpiece on ma	Mount workpiece on magnetic plate according to work requirements *							
Use precision vise to hold workpiece, if required *								
Use grinding machine accessories, if required *								
Operate grinding machine according to job specifications *								
 Monitor and identify performance of grinding wheel based on the industry standards * 								
Check and measure w work specifications *	Check and measure workpiece during grinding operation, according to work specifications *							

•	Perform quality check of finished workpiece according to ind procedure *	ustry						
REPAIR WORKPIECE								
•	Identify job repair needed based on drawing *							
•	Prepare workpiece, tools, materials, and electric welding machine according to industry standards *							
•	Set-up welding machine in accordance with manufacturer's instructi	ons*						
•	Position holding devices in conformity with job requirements *							
•	Demonstrate tack welding and root pass in accordance with drawing	3 *						
•	Clean root pass from slugs and defects *							
•	Inspect welded workpiece based on work specifications							
•	Repair defective weld in workpiece following work specifications *							
•	Check quality of welded workpiece according to specifications *							
PE	ERFORM POST- ACTIVITIES							
•	Shutdown machines according to manufacturer's manual *							
•	Maintain and store tools based on established procedures *							
•	Tag and report defective tools and machines according to works procedures, if any *	olace						
•	Perform good housekeeping following 5S *							
•	Dispose wastes according to waste management procedures environmental regulations *	and						
•	Accomplish checklist of workpiece specifications *							
•	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.								

Qualification	MACHINING NC I								
Certificate of Competency(COC 4)	Perform Snaning Operation								
 Perform bench work (basic) Shape workpiece Repair workpiece 									
Instruction: • Read each questio	n and check the appropriate column to indicate you	ur ansv	ver.						
Can I?		YES	NO						
PERFORM BENCH WORK	K (BASIC)								
 Interpret drawing and c required * 									
 Sharpen cutting and ma work safety standards * 	arking tools according to industry procedure and								
 Check dimensions of tool/s * 	 Check dimensions of materials needed using appropriate measuring tool/s * 								
 Perform required bench work operations based on drawing, and according to industry standards * 									
Measure workpiece acc	cording to drawing specifications *								
SHAPE WORKPIECE									
Interpret drawing of share	ping work and clarify the task required *								
Plan sequence of specifications*	shaping operation according to drawing								
Prepare and inspect materials, tools and supplies based on drawing *									
Test run machine to be	Test run machine to be used *								
Prepare cutting tools ar	Prepare cutting tools and measuring tools needed in operation *								
Determine appropriater	Determine appropriateness of material to machine *								
Mount material on vise	according to work requirements *								
Select cutting tools and	Select cutting tools and holders according to job requirements *								
Mount cutting tools to the state of the		İ							
Mount tool holder on the tool post following established industry practices *									
Set-up length of stroke	Set-up length of stroke of shaper according to workpiece length *								
Use shaper accessories	s, if required *								

•	Operate shaper according to job specifications *						
•	Monitor performance of the machine and cutting tools based of manufacturer's manual *	n the					
•	Check and measure workpiece during turning operation, accord work specifications *	ing to					
•	Perform quality check of finished workpiece according to inc procedure *	dustry					
RE	REPAIR WORKPIECE						
•	Identify job repair needed based on drawing *						
•	Prepare workpiece, tools, materials, and electric welding ma according to industry standards *	chine					
•	Set-up welding machine in accordance with manufacturer's instruc	tions*					
•	Position holding devices in conformity with job requirements *						
•	Demonstrate tack welding and root pass in accordance with drawing	ng *					
•	Clean root pass from slugs and defects *						
•	Inspect welded workpiece based on work specifications						
•	Repair defective weld in workpiece following work specifications *						
•	Check quality of welded workpiece according to specifications *						
PE	RFORM POST- ACTIVITIES						
•	Shutdown machines according to manufacturer's manual *						
•	Maintain and store tools based on established procedures *						
•	Tag and report defective tools and machines according to work procedures, if any *	place					
•	Perform good housekeeping following 5S *						
•	Dispose wastes according to waste management procedures environmental regulations *	and					
•	Accomplish checklist of workpiece specifications *						
•	Practice works safety and health measures when performing tasks	*					
on	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				