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Reference No.																
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SELF-ASSESSMENT GUIDE

Qualification:	CNC EDM WIRE CUT OPERATION NCIII		
Units of Competency covered:	 Write CNC Electric Discharge Machine (EDM)- wire of Set-up CNC Electric Discharge Machine (EDM)- wire and workpiece Perform CNC Electric Discharge Machine (EDM)-wire Perform post CNC Electric Discharge Machine (operations) 	e cut, cutt	ing wire ations
Instruction:	nd check the appropriate column to indicate your answer.		
Can I?	a chock the appropriate column to maleate your anower.	YES	NO
WRITE CNC EDM WIF	RE CUT PROGRAM		
Interpret drawing*			
Select cutting wire act	ccording to the job requirement*		
Receive and inspect	work piece base on the drawing*		
Use desktop compute	er according to standard operation procedures*		
Determine sequence	wire cut operation according to standard procedures *		
Generate drawing us	ing software *		
Write wire path progr	am according to software manual *		
Fill up wire paramete	rs according to software *		
Save CAD drawing to	designated folder according to industry procedures *		
 Simulate and edit Co operating procedures 	mputer Aided Design program according to standard s *		
Save program to des	ignated folder according to industry procedures *		
 Download inputs prog according to industry 	gram to the machine using appropriate devices procedures *		
SET-UP CNC ELECT	RIC DISCHARGE MACHINE (EDM), CUTTING WIRE AN	ND WORK	(PIECE
Select EDM wire cut	type and capacity according to job requirement *		
Check oil, grease and specification.*	d deionized water according to manufacturer's		
specification*	gs and parameters according to manufacturer's		
Check air and hydrau	ulic pressure according to manufacturer's specification.*		
 Mount work holding a procedures.* 	and clamping devices according to standard operating		

 Check perpendicularity and verticality of machine axes using precision instruments according to operating manual* 	
Check verticality of upper and lower guide *	
Select nozzles according to cutting wire diameter*	
Mount nozzles according to industry procedure*	
Mount cutting wire according to job requirement *	
Adjust cutting wire tension according operating procedures *	
Mount workpiece on clamping device according to industry practices*	
 Check workpiece for perpendicularity and verticality according to industry standard procedures* 	
 Center workpiece and zero reference point is set according to industry standard procedures* 	
 Perform dry-run in accordance with the desired tool path movement.* 	
 Monitor dry-run and adjust parameters according to standard industry procedure.* 	
Apply safety practices OSHS *	
PERFORM CNC EDM WIRE CUT OPERATION	
 Submerge workpiece with deionized water according to EDM operating manual* 	
 Conduct dry run and adjust parameters if required according to EDM operating manual* 	
 Operate EDM to meet dimensions and surface texture according to job requirements* 	
 Use EDM accessories according to job requirements* 	
 Monitor performance of the machine and cutting wire are in the power control unit based on the accepted industry standards* 	
Maintain deionized water level according to machine operating manual*	
• Increase flushing pressure progressively based on job requirements*	
Empty working table of deionized water according to operating manual *	
Clean surface of workpiece according to job requirement*	
 Inspect surface texture of workpiece while on its holder according to job requirements* 	
 Inspect tension of cutting wire and correct / adjust if necessary according to job requirements* 	
PERFORM POST CNC EDM WIRE CUT OPERATION	
Shut of EDM flushing or open gate valve in accordance to operation manual *	
 Remove workpiece from work holding and clamping devices according to job requirement * 	
Clean and dry workpiece according to job requirement *	
 Check and measure workpiece using measuring tools following standard operating procedures* 	
Apply anti-corrosion agents on the inspected workpiece *	

• Fill up accomplishment report according to company procedures*					
 Submit inspected workpiece and accomplishment report to immediate supervisor following workplace procedures* 					
 Shut off EDM according to manufacturer's operating manual* 					
 Maintain and store tools based on established procedures* 					
Tag and report defective tools according to workplace procedures*					
Perform good housekeeping following 5S*					
 Dispose wastes according to waste management procedures and environmental regulations* 					
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			

NOTE: *Critical aspects of competency