

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

SELF-ASSESSMENT GUIDE

Qualification:	EDM-SINKING OPERATION NC II		
Units of Competency covered:	<ul style="list-style-type: none"> • Set-up Electric Discharge Machine, electrode and work piece • Perform Electric Discharge Machine -sinking operations • Perform post Electric Discharge Machine -sinking operations 		
Instruction: Read each question and check the appropriate column to indicate your answer.			
Can I?	YES	NO	
SET-UP EDM-SINKING, ELECTRODE AND WORKPIECE			
• Select EDM sinking type and capacity according to job requirement*			
• Check oil, grease and dielectric fluid according to manufacturer's specification*			
• Set-up EDM parameters and electrical settings according to manufacturer's specification*			
• Select and mount work holding and clamping devices according to standard operating procedures*			
• Check dielectric fluid pump and set working pressure according to manufacturer's specification*			
• Select electrode according to job requirement*			
• Mount electrode on EDM platen and holder according to manufacturer's specification*			
• Align electrode perpendicular to table according to standard operating procedures*			
• Select and mount clamping device based on workpiece shape*			
• Mount work piece on clamping device according to standard industry procedures*			
• Center work piece to required level of accuracy using tools and instruments in accordance with workplace procedures*			
• Set zero reference points of X,Y,Z axes according to standard operating procedures*			
• Enclose and seal front wall of working tank according to standard industry procedures*			
PERFORM EDM-SINKING OPERATIONS			
• Open pressure valve of nozzle for EDM flushing (dielectric fluid) according to standard industry procedures*			
• Submerge work piece with dielectric fluid according to EDM operating manual*			
• Conduct dry run and if required, adjust parameters, according to EDM operating manual*			
• Operate EDM-sinking to meet dimensions, tolerances, limits, fits and surface texture according to job requirements*			

• Use EDM accessories according to job requirements*		
• Replace worn out electrode according to job requirements*		
• Monitor and adjust with the aid of power control unit the performance of machine and electrode based on the accepted industry standard*		
• Maintain dielectric fluid to required level according to machine operating manual*		
• Increase progressively the flushing pressure based on job requirements*		
• Maintain depth of cut thoroughly according to standard work procedures*		
• Empty dielectric fluid from working table according to operating manual*		
• Unclamp tank wall according to standard industry procedures*		
• Clean surface of work piece according to job requirements*		
• Inspect visually surface texture of work piece while on its holder according to job requirements*		
• Inspect electrode for wear according to job requirements*		
PERFORM POST EDM-SINKING OPERATION		
• Shut off EDM flushing (dielectric fluid) according to operating manual*		
• Remove work piece from clamping devices according to job requirements*		
• Clean and thoroughly dry work piece according to job requirements*		
• Check and measure work piece following standard operating procedures*		
• Apply anti-corrosion agents on work piece following standard operating procedures*		
• Fill up accomplishment report following workplace procedures*		
• Submit work piece and accomplishment report to immediate supervisor following workplace procedures*		
• Turn off electrical, pneumatic and hydraulic switches according to manufacturer's operating manual*		
• Maintain and store tools based on established procedures*		
• Tag and report defective tools according to workplace procedures*		
• Practice 5S		
• Dispose wastes accordingly		
• Perform good housekeeping following 5S *		
• Dispose wastes according to waste management procedures and environmental regulations *		
• Practice OSHS*		
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