

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

SELF-ASSESSMENT GUIDE

Qualification	MACHINING NC I			
Units of Competency Covered	<ul style="list-style-type: none"> • Perform bench work (basic) • Turn workpiece • Mill workpiece • Grind workpiece • Shape workpiece • Repair workpiece 			
Instruction:				
<ul style="list-style-type: none"> • Read each question and check the appropriate column to indicate your answer. 				
Can I?			YES	NO
PERFORM BENCH WORK (BASIC)				
• Interpret drawing and check benchwork materials, tools and supplies as required *				
• Sharpen cutting and marking tools according to industry procedure and work safety standards *				
• 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 according to drawing specifications *				
TURN WORKPIECE				
• Interpret drawing of turning work and clarify the task required *				
• Plan sequence of turning 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 *				
• Identify defective turn work piece and tools *				
• Determine material suitable to the machine *				
• Mount material on chuck according to work requirements *				
• Use centering instruments according to material 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 *				

• 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 *		
MILL WORKPIECE		
• Interpret drawing of vertical milling work and clarify 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 *		
GRIND 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 *		
SHAPE 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 *		
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 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 *		
PERFORM 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 workplace procedures, if any *		
• Perform good housekeeping following 5S *		
• Dispose wastes according to waste management procedures and environmental regulations *		
• 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.																			
---------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SELF-ASSESSMENT GUIDE

Qualification	MACHINING NC I		
Certificate of Competency (COC 1)	Perform Turning Operation		
Units of Competency Covered	<ul style="list-style-type: none"> • Perform bench work (basic) • Turn workpiece • Repair workpiece 		
Instruction:			
<ul style="list-style-type: none"> • Read each question and check the appropriate column to indicate your answer. 			
Can I?		YES	NO
PERFORM BENCH WORK (BASIC)			
• Interpret drawing and check benchwork materials, tools and supplies as required *			
• Sharpen cutting and marking tools according to industry procedure and work safety standards *			
• 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 according to drawing specifications *			
TURN WORKPIECE			
• Interpret drawing of turning work and clarify the task require *			
• Plan sequence of turning 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 *			
• Identify defective turn work piece and tools *			
• Determine material suitable to the machine *			
• Mount material on chuck according to work requirements *			
• Use centering instruments according to material 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 *			
• 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 *		
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 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 *		
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 workplace procedures, if any *		
• Perform good housekeeping following 5S *		
• Dispose wastes according to waste management procedures and environmental regulations *		
• 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.																			
---------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SELF-ASSESSMENT GUIDE

Qualification	MACHINING NC I																	
Certificate of Competency (COC 2)	Perform Milling Operation																	
Units of Competency Covered	<ul style="list-style-type: none"> • Perform bench work (basic) • Mill workpiece • Repair workpiece 																	
Instruction:																		
<ul style="list-style-type: none"> • Read each question and check the appropriate column to indicate your answer. 																		
Can I?																	YES	NO
PERFORM BENCH WORK (BASIC)																		
• Interpret drawing and check benchwork materials, tools and supplies as required *																		
• Sharpen cutting and marking tools according to industry procedure and work safety standards *																		
• 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 according to drawing specifications *																		
MILL WORKPIECE																		
• Interpret drawing of vertical milling work and clarify 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 *		
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 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 *		
PERFORM 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 workplace procedures, if any *		
• Perform good housekeeping following 5S *		
• Dispose wastes according to waste management procedures and environmental regulations *		
• 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.																			
---------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SELF-ASSESSMENT GUIDE

Qualification	MACHINING NC I																	
Certificate of Competency (COC 3)	Perform Surface Grinding Operation																	
Units of Competency Covered	<ul style="list-style-type: none"> • Perform bench work (basic) • Grind workpiece • Repair workpiece 																	
Instruction:																		
<ul style="list-style-type: none"> • Read each question and check the appropriate column to indicate your answer. 																		
Can I?																YES	NO	
PERFORM BENCH WORK (BASIC)																		
• Interpret drawing and check benchwork materials, tools and supplies as required *																		
• Sharpen cutting and marking tools according to industry procedure and work safety standards *																		
• 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 according to drawing specifications *																		
GRIND 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 *																		

<ul style="list-style-type: none"> • Perform quality check of finished workpiece according to industry procedure * 		
REPAIR WORKPIECE		
<ul style="list-style-type: none"> • Identify job repair needed based on drawing * 		
<ul style="list-style-type: none"> • Prepare workpiece, tools, materials, and electric welding machine according to industry standards * 		
<ul style="list-style-type: none"> • Set-up welding machine in accordance with manufacturer's instructions* 		
<ul style="list-style-type: none"> • Position holding devices in conformity with job requirements * 		
<ul style="list-style-type: none"> • Demonstrate tack welding and root pass in accordance with drawing * 		
<ul style="list-style-type: none"> • Clean root pass from slugs and defects * 		
<ul style="list-style-type: none"> • Inspect welded workpiece based on work specifications 		
<ul style="list-style-type: none"> • Repair defective weld in workpiece following work specifications * 		
<ul style="list-style-type: none"> • Check quality of welded workpiece according to specifications * 		
PERFORM POST- ACTIVITIES		
<ul style="list-style-type: none"> • Shutdown machines according to manufacturer's manual * 		
<ul style="list-style-type: none"> • Maintain and store tools based on established procedures * 		
<ul style="list-style-type: none"> • Tag and report defective tools and machines according to workplace procedures, if any * 		
<ul style="list-style-type: none"> • Perform good housekeeping following 5S * 		
<ul style="list-style-type: none"> • Dispose wastes according to waste management procedures and environmental regulations * 		
<ul style="list-style-type: none"> • Accomplish checklist of workpiece specifications * 		
<ul style="list-style-type: none"> • Practice works safety and health measures when performing tasks * 		
<p>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.</p>		
Candidate's Name and Signature		Date

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

SELF-ASSESSMENT GUIDE

Qualification	MACHINING NC I																	
Certificate of Competency(COC 4)	Perform Shaping Operation																	
Units of Competency Covered	<ul style="list-style-type: none"> • Perform bench work (basic) • Shape workpiece • Repair workpiece 																	
Instruction:																		
<ul style="list-style-type: none"> • Read each question and check the appropriate column to indicate your answer. 																		
Can I?																	YES	NO
PERFORM BENCH WORK (BASIC)																		
• Interpret drawing and check benchwork materials, tools and supplies as required *																		
• Sharpen cutting and marking tools according to industry procedure and work safety standards *																		
• 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 according to drawing specifications *																		
SHAPE 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 *		
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 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 *		
PERFORM 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 workplace procedures, if any *		
• Perform good housekeeping following 5S *		
• Dispose wastes according to waste management procedures and environmental regulations *		
• 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