

## SELF – ASSESSMENT GUIDE

<b>Qualification:</b>	MACHINING NC II	
<b>Project:</b>	FABRICATE TAPERED SHAFT, GEAR AND NUT	
<b>Unit of Competency Covered:</b>	<ul style="list-style-type: none"> <li>• Perform bench work (Basic and Complex)</li> <li>• Turn workpiece (Basic and Intermediate)</li> <li>• Mill workpiece (Basic and Intermediate)</li> <li>• Grind workpiece (Basic and Complex)</li> </ul>	
<b>Instruction:</b> <ul style="list-style-type: none"> <li>• Read each of the questions in the left-hand column of the chart.</li> <li>• Place a Check in the appropriate box opposite each question to indicate your answers.</li> </ul>		
<b>Can I?</b>	<b>YES</b>	<b>NO</b>
• wear PPE and observe safety procedures		
• interpret drawings and sketches		
• know the different types and mechanical properties of engineering materials		
• determine sequence of operations		
• calculate and set machine speed and feed		
• select and mount, aligned/centered and clamped workpiece		
• select and set up cutting tools		
• perform benchwork (e.g. laying out, chipping, filing, drilling, reaming, lapping, deburring, and honing)		
• perform turning operations to produce components (e.g. facing and straight turning; cutting grooves; drilling and boring; knurling; cutting tapers by offsetting tailstock or using taper turning attachment; and internal and external Vee and acme threads)		
• perform milling operations to produce components (e.g. drilling, boring, reaming and spot-facing holes; milling blocks, shoulder, parallel and angled faces; milling slots and keyways; milling circular/radial slots; milling internal and external radii; milling splines and grooves; milling serrations on cylindrical workpiece; milling ratchets, spur gear and rack and plain bevel gear)		

<ul style="list-style-type: none"> <li>perform grinding operations to produce components (e.g. grinding parallel and square surfaces, angles, internal and external radii, tapers and recesses)</li> </ul>		
<ul style="list-style-type: none"> <li>check and measure workpiece using precision measuring instruments</li> </ul>		
<ul style="list-style-type: none"> <li>observe housekeeping</li> </ul>		
<p>I agree to undertake assessment in 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>		
<p><b>Candidate's Name:</b></p>	<p><b>Date:</b></p>	