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SELF - ASSESSMENT GUIDE

Qualification:	MOLD MAKING NC III		
Units of Competency Covered:	<ul style="list-style-type: none"> • Machine mold components • Implement surface finishing • Fit and assemble mold • Rectify mold flaw 		
Instruction: <ul style="list-style-type: none"> • Read each of the questions in the left-hand column of the chart. • Place a tick in the appropriate box opposite each question to indicate your answer. 			
Can I?	YES	NO	
<ul style="list-style-type: none"> • Determine job requirements* 			
- Interpret drawing to produce mold components according to drawing specifications			
- Determine sequence of operation to produce mold component according to specification			
- Select cutting tools according to the requirements of the operation			
<ul style="list-style-type: none"> • Prepare the CAM environment* 			
- Obtain all relevant manuals, instructions and operating procedures for the CAM software in accordance with the standard operating procedures			
- Boot up CAM package in accordance with the standard operating procedures			
- Set screen display areas and tools and workpiece parameters in accordance with instructions			
<ul style="list-style-type: none"> • Generate CNC machining program* 			
- Prepare 3D CAD drawing according to appropriate machining sequence			
- Create machining program of mold components using CAM software			
- Generate machining program in standard CNC operations, code and format in accordance with SOP			
<ul style="list-style-type: none"> • Edit CNC program* 			
- Simulate program using CAM software according to SOP			

- Edit program using CAM software according to SOP		
- Save and downloads edited program to machine according SOP		
• Set-up machine and cutting tools*		
- Set machine zero point to required position		
- Set cutting tool to required position using pre-setting device		
- Position cooling medium according to SOP		
- Perform cuttings tool and holders set-up according to SOP		
• Set up workpiece*		
- Mount workpiece on the machine using clamping device		
- Align workpiece using gauges		
- Determine workpiece reference point based on generated program		
• Dry run program*		
- Download program to CNC machine		
- Edit program according to the required tool path		
- Edit program based on available cutting tool		
- Perform program dry run in accordance with the desired tool path movement		
• Perform trial cut on workpiece*		
- Machine workpiece as program		
- Check workpiece dimension using appropriate measuring instruments		
- Edit program and adjusts tool parameters as required		
• Perform machining of workpiece*		
- Machine workpiece based on final program		
- Inspect workpiece dimension using appropriate measuring instruments		
- Edit and re-run program as required		

<ul style="list-style-type: none"> • Perform machine shut down* 		
<ul style="list-style-type: none"> - Clean and remove machined workpiece in accordance to workplace procedures 		
<ul style="list-style-type: none"> - Remove tools and holders as required 		
<ul style="list-style-type: none"> - Shut down the machine in accordance with SOP 		
<ul style="list-style-type: none"> • Perform housekeeping* 		
<ul style="list-style-type: none"> - Clean machine and tools in accordance with workplace procedures 		
<ul style="list-style-type: none"> - Dispose waste material according to environmental standard 		
<ul style="list-style-type: none"> • Determine job requirements for surface finishing* 		
<ul style="list-style-type: none"> - Interpret drawing to determine mold finishing requirements 		
<ul style="list-style-type: none"> - Determine sequence of operation to produce the required finishing according to specification 		
<ul style="list-style-type: none"> - Select finishing tool, equipment and supplies according to the requirement of the operation 		
<ul style="list-style-type: none"> • Prepare mold components* 		
<ul style="list-style-type: none"> - Identify components for surface finishing based on parts drawing 		
<ul style="list-style-type: none"> - Set up mold component according to workplace procedures 		
<ul style="list-style-type: none"> - Set up components in accordance with safety procedures and using PPE 		
<ul style="list-style-type: none"> • Set-up surface finishing tools and equipment* 		
<ul style="list-style-type: none"> - Determine type of surface finish according to specification 		
<ul style="list-style-type: none"> - Prepare tools and equipment according to work requirements 		
<ul style="list-style-type: none"> - Set up surface finishing tools and equipment according to SOP 		
<ul style="list-style-type: none"> • Perform surface finishing* 		
<ul style="list-style-type: none"> - Perform surface finishing of mold in accordance with safety procedure and using PPE 		
<ul style="list-style-type: none"> • Perform equipment shutdown* 		
<ul style="list-style-type: none"> - Clean and remove finished workpiece in accordance to workplace procedures 		
<ul style="list-style-type: none"> - Remove tools and holders as required 		

- Shut down the equipment in accordance with SOP		
• Perform housekeeping*		
- Clean equipment and tools used in accordance workplace procedures		
- Keep unused supplies in accordance with workplace procedures		
- Dispose waste material according to environmental standard		
• Determine mold components to be fitted*		
- Interpret assembly drawing to determine mold components to be fitted		
- Check quantity of mold components and standard parts		
- Identify fitting tool , equipment and supplies according to work requirements		
• Perform mold components assembly*		
- Perform assembly of components in accordance with safety procedures and uses PPE		
- Perform assembly according to required sequence		
- Perform fitting and aligning of mold components according to assembly procedure		
- Assemble mold components according to assembly drawing		
• Perform housekeeping for assembly*		
- Clean and keep tools and equipment used in accordance with workplace procedures		
- Keep unused supplies in accordance with workplace procedures		
- Dispose waste material according to environmental standard		
• Identify and analyze mold flaws*		
- Inspect molded products for presence of defects		
- Identify mold flaws based of observe products defects		
- Identify and analyses mold components attributed to flaws		

<ul style="list-style-type: none"> • Correct/ Modify mold flaws* 		
<ul style="list-style-type: none"> - Determine corrective action based on flaws 		
<ul style="list-style-type: none"> - Disassemble mold for correction according to workplace procedures 		
<ul style="list-style-type: none"> - Correct identified mold components 		
<ul style="list-style-type: none"> - Assemble mold according to assembly drawing 		
<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>		
Candidate's Name & Signature:	Date:	