

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

### SELF - ASSESSMENT GUIDE

Qualification:	<b>MOLD DESIGNING NC IV</b>		
Units of Competency Covered:	<ul style="list-style-type: none"> <li>• Determine mold design Parameter</li> <li>• Perform CAD operation</li> <li>• Simulate and verify mold design</li> <li>• Modify and Finalize mold design</li> <li>• Create Fabrication Drawing</li> </ul>		
Instruction:			
<ul style="list-style-type: none"> <li>• Read each of the questions and check the appropriate column to indicate your answer.</li> </ul>			
<b>Can I?</b>	<b>YES</b>	<b>NO</b>	
<ul style="list-style-type: none"> <li>• <b>Identify Product requirements*</b></li> </ul>			
- Identify product materials requirements as required.			
- Determine product volume using applicable mathematical methods.			
- Determine molding process based on product requirements			
<ul style="list-style-type: none"> <li>• <b>Identify mold parameters*</b></li> </ul>			
- Identify mold material requirements based on product requirements			
- Determine production volume to establish number of mold cavities			
- Identify production process based on product requirements			
<ul style="list-style-type: none"> <li>• <b>Identify production machine*</b></li> </ul>			
- Determine production machine according to molding process			
- Determine machine capacity based on product volume			
- Identify production process based on product requirements			
<ul style="list-style-type: none"> <li>• <b>Determine job requirements for CAD operation*</b></li> </ul>			
- Verify product samples and drawing			

- Determine missing dimensions		
<b>• Prepare CAD environment*</b>		
- Obtain all relevant manuals, instructions and operating procedures for the CAD software in accordance with workplace procedures.		
- Boot-up CAD package in accordance with workplace procedures.		
- Set screen display area to required CAD environment and design toolbars in accordance with instructions.		
<b>• Create 3D CAD drawings*</b>		
- Create 3D CAD drawings and seeks guidance as required.		
- Prepare drawings in accordance with existing standard.		
- Review 3D CAD drawings by concerned person in accordance with workplace procedures		
<b>• Save 3D CAD Drawing*</b>		
- Save drawing files in the designated folder in accordance with standard operating procedures.		
- Verify 3D CAD drawings if saved to the designated folder.		
- Close programs in accordance with standard operating procedures.		
- Shut-down computer in accordance with standard operating procedures.		
<b>• Determine job requirements for simulation and verification *</b>		
- Identify simulation requirements		
- Prepare 3D CAD drawings for simulation		
- Convert 3D CAD drawings to appropriate extension file		
<b>• Prepare CAD simulation environment *</b>		
- Set simulation toolbars and environment		
<b>• Simulate and verify 3D CAD drawings *</b>		
- Simulate and verify 3D CAD drawings		
- Verify simulated results if saved to designated folder		

- Review simulation results by concerned person in accordance with procedures		
- Print out simulation results in accordance with standard operating procedures, if required.		
<b>• Save simulation results*</b>		
- Save simulation results in designated folder		
- Verify simulation results if saved to the designated folder.		
<b>• Prepare CAD environment for modification and finalization*</b>		
- Set screen display area to CAD environment		
- Set design toolbars in accordance with instructions		
<b>• Modify 3D CAD drawings*</b>		
- Modify 3D CAD drawing based on simulation results		
- Prepare drawings in accordance with the existing standard		
<b>• Save modified 3D CAD drawings*</b>		
- Save modified 3D CAD drawings files in the designated folder in accordance with SOP		
<b>• Create Fabrication drawing*</b>		
- Prepare assembly drawing		
- Prepare parts drawing		
- Print drawings		
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.		
<b>Candidate's Name &amp; Signature:</b>	<b>Date:</b>	