

## SELF-ASSESSMENT GUIDE

<b>QUALIFICATION:</b>	<b>FOUNDRY PATTERN MAKING – NC III</b>	
<b>Project – Based Assessment</b>	Fabricate/Develop Corebox for Shell Cores, Gear or Conveyor Screw or Propeller Patterns and Gravity Die Casting Mold	
<b>Units of competency covered</b>	<ul style="list-style-type: none"> <li>• Manufacture and Develop Corebox for Shell Core Sand</li> <li>• Develop and Manufacture Gear, Conveyor Screw and Propeller Patterns</li> <li>• Develop Gravity Die Casting Mold</li> </ul>	
Instruction: <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 on each question to indicate your answers.</li> </ul>		
<b>Can I?</b>	<b>YES</b>	<b>NO</b>
• Determine job requirements*		
• Lay-out corebox*		
• Lay-out pattern gear, conveyor screw and propeller pattern*		
• Lay-out gravity die casting mold*		
• Manufacture corebox and component*		
• Manufacture gear, conveyor screw and propeller pattern*		
• Manufacture gravity die casting mold*		
• Develop corebox*		
• Develop gear, conveyor screw and propeller pattern*		
• Develop gravity die casting mold*		
• Record data*		

• Identify method of corebox construction including machining provision and clamping arrangement*		
• Identify pattern characteristics for designing corebox pattern*		
• Describe typical core blowing operations*		
• Describe techniques, tools and equipment to measure, mark out and produce gear, conveyor screw and propeller patterns*		
• Identify pattern characteristics for designing gear, conveyor screw and propeller pattern*		
• Discuss the factors that determine the type of pattern to be used for gear, conveyor screw and propeller*		
• Identify mold characteristics of gravity die casting mold*		
• Identify factors that determine the type of molds to be used for gravity die casting*		
• Observe safe work practices and procedures*		
• Maintain hand tools, measuring instruments and storage*		
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 Signature:</b>	<b>Date:</b>	