

SELF-ASSESSMENT GUIDE

QUALIFICATION:	FOUNDRY PATTERN MAKING – NC III	
Project – Based Assessment	Fabricate/Develop Corebox for Shell Cores, Gear or Conveyor Screw or Propeller Patterns and Gravity Die Casting Mold	
Units of competency covered	<ul style="list-style-type: none"> • Manufacture and Develop Corebox for Shell Core Sand • Develop and Manufacture Gear, Conveyor Screw and Propeller Patterns • Develop Gravity Die Casting Mold 	
Instruction: <ul style="list-style-type: none"> • Read each of the questions in the left-hand column of the chart. • Place a check on each question to indicate your answers. 		
Can I?	YES	NO
• 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.		
Candidate's Signature:	Date:	