SELF-ASSESSMENT GUIDE

QUALIFICATION:	FOUNDRY MELTING/CASTING NC III			
Project – Based Assessment	Melt Foundry Alloy in Cupola			
Units of competency covered	 Melt Aluminum-Silicon Alloys for Safety Tested Castings Melt Metals Using Coreless Induction Furnace Melt Automotive Gray Iron Castings in Cupola 			
 Instruction: 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	
Identify job requirement	ts*			
Determine casting meth	Determine casting method*			
Establish melting and m	Establish melting and melt treatment process*			
Identify casting defects techniques*	Identify casting defects caused by unsound melting techniques*			
Identify casting quality r	Identify casting quality requirements*			
Determine charging sec and melt treatment*	Determine charging sequence of metallic charges and melt treatment*			
Melt foundry alloys in co	Melt foundry alloys in cupola*			
Identify basic melt-treat	Identify basic melt-treatment procedures for alloy*			
5	Identify effects of chemical composition on integrity of the casting* (strength, ductility, surface finish)			
 Identify contaminants th casting* 	nat affect integrity of the			
Apply de-slagging, dega modifying melting techn				

•	Identify countermeasures to eliminate/minimize casting defects*			
•	Identify safety test applied to casting*			
•	Recycle scraps/turnings*			
•	Prepare production report*			
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:		