

Specification of Competency Standards for the Jewellery Industry
Unit of Competency

1. Title	Retrieve materials/refine gold		
2. Code	JLZZQM303A		
3. Range	This unit of competency is applicable in the restrieved gold refining plants/laboratories for precious metals. Practitioners should be capable to effectively retrieve and refine the consumed precious metals lost during the daily manufacturing operations in jewellery manufacturing worksites.		
4. Level	3		
5. Credit	9		
6. Competency		<u>Performance Requirements</u>	
	6.1	Understand classification of the recovered items	<ul style="list-style-type: none"> ◆ Know how to treat the rubbish on the floor ◆ Collect and handle the precipitants in the washing basin ◆ Know how to treat the used solution and crucibles ◆ Handle grind and polish discarded and consumed materials
	6.2	Operate gold refining process	<ul style="list-style-type: none"> ◆ Master the removal of impurity substances by <ul style="list-style-type: none"> • Gold washing method • Applying magnetic iron • Pickling ◆ Handle the precipitants of precious metal remained in the used cyanide solution ◆ Master the removal of casting alloy <ul style="list-style-type: none"> • The procedure of silver parting • The use of nitric acid

7. Assessment Criteria	The integrated outcome requirements of this unit of competency are: (i) Capable to refine the precious metals lost during daily manufacturing operations in jewellery manufacturing worksites according to working procedure, including the rubbish and discarded and consumed items found in the factories, etc.; and (ii) Capable to give clear instruction to subordinate staff and can effectively retrieve and refine precious metals.
8. Remarks	The credit value of this unit of competency is set on the presumption that the person concerned already possesses knowledge on the safety operation of chemical drugs, treatment of chemical wastes and environmental protection ordinances.