1. Title	Non-destructive test (NDT) – Liquid Penetrant Testing
2. Code	EMCUMA102A
3. Range	Use liquid penetrant, at servicing centres or locations with operating equipment, to inspect equipment or materials for surface cracks and make a simple analysis.
4. Level	1
5. Credit	2
6.Competency	Performance Requirements
	6.1 Techniques and principles of Understand the techniques and principles of inspecting or materials for surface cracks  ■ Understand the techniques and principles of inspecting equipment or materials for surface cracks  ■ Understand the chemical hazards caused by penetrant and developers, and relevant concerns for use  ■ Understand that liquid penetration inspection is not applicable to high temperature materials
	6.2 Methods and procedures of inspect the surface cracks of equipment or materials  analyzing and identifying external cracks on metal equipment or materials  Capable to use liquid penetrant and developers effectively to inspect the surface cracks of equipment or materials  Capable to use liquid penetrant and developers effectively to inspect the surface cracks of equipment or materials
	6.3 Code of practice
7. Assessment Criteria	The integrated outcome requirement of this unit of competency is:  (i) Capable to use liquid penetrant and developer inspection method safely and correctly to identify equipment or materials for surface cracks which are not easily seen; and to mark the cracks correctly.
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses the competency of reading mechanical drawings and manuals for materials.