

1. Title	Non-destructive test (NDT) - ultrasonic testing
2. Code	EMCUMA202A
3. Range	Use ultrasonic testing instruments, at servicing centres or locations with operating equipment, to detect and examine internal damages of metallic equipment and material thickness.
4. Level	2
5. Credits	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Techniques and working principles of applying ultrasound to inspect internal damages of metallic equipment and material thickness</p> <ul style="list-style-type: none"> ◆ Understand the principles of ultrasonic detection and examination technology used to inspect internal damages of metallic equipment and material thickness ◆ Understand the processing requirements for work piece surface before conducting ultrasonic inspection <p>6.2 Methods and procedures of inspecting internal damages of metallic equipment and material thickness</p> <ul style="list-style-type: none"> ◆ Capable to process work piece surface properly according to work pieces that need ultrasonic inspection ◆ Capable to use ultrasonic testing instruments to detect and examine internal damages of metallic equipment and material thickness ◆ Capable to use ultrasonic testing instruments to measure and calculate crack positions and size ◆ Capable to mark the position with cracks clearly
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to use ultrasonic testing technology correctly to inspect internal damages of metallic equipment and material thickness; measure and calculate crack positions and size; and record and mark the positions and size of the cracks.</p>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person is familiar with liquid penetration inspection.