

1. Title	Checking of and working on ironwork materials
2. Code	EMSRIN102A
3. Range	Apply basic material checking skills and ironwork craftsmanship under instruction to assist in ironwork tasks related to ship repairs and general checking of materials as a trainee.
4. Level	1
5. Credit	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge of ironwork materials and working methods for basic trades</p> <ul style="list-style-type: none"> ◆ Identify various kinds of iron materials (such as: wrought iron, pig iron, carbon steel and high-speed steel), non-steel metals (such as: aluminium, copper, tin, zinc) and alloys (such as: copper alloy and aluminium alloy) ◆ Know the working methods for basic ironwork trades and assist in implementing the checking of special materials such as: aluminium alloy, titanium, honeycomb panels, carbon fibre <p>6.2 Techniques and procedures of checking and working on ironwork materials</p> <ul style="list-style-type: none"> ◆ Make arrangements for the checking of materials needed for the repairs ◆ Carry out simple tasks of the basic ironwork trade in the course of work
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to correctly select and use appropriate tools and materials to implement relevant ironwork tasks; and</p> <p>(ii) Capable to meet the skill level comparing to the standard model used as a benchmark for assessing craftsmanship.</p>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of physics and common tools.