

1. Title	Repair reciprocating air compressors
2. Code	EMPERM213A
3. Range	Perform routine repair for reciprocating air compressors in general industrial plants, power plants or other places.
4. Level	2
5. Credits	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Structure and basic working principles of general reciprocating air compressors</p> <ul style="list-style-type: none"> ◆ Understand the structure and basic working principles of general reciprocating air compressors including crankshaft reciprocating drive system, cylinder head and intake and exhaust valves, cylinder, piston and piston ring, plane bearing system and its lubrication system, cooling system, etc. <p>6.2 Methods and procedures of repairing general reciprocating air compressors</p> <ul style="list-style-type: none"> ◆ Understand the need and principles of scheduled repair and maintenance of general air compressors, including inspecting, maintaining and testing them ◆ Select and use repair and testing instruments and tools properly <p>6.3 Professionalism in repairing general reciprocating air compressors</p> <ul style="list-style-type: none"> ◆ Follow the requirements of practical guidelines and manufacturer's repair guidelines to perform repair for reciprocating air compressors
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to perform routine repair for reciprocating air compressors under instruction and according to guidelines;</p> <p>(ii) Capable to report the status of operation of reciprocating air compressors; and</p> <p>(iii) Capable to complete repair report forms for the reciprocating air compressors.</p>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses general mechanical repair techniques.