

1. Title	Repair heat exchangers
2. Code	EMPERM207A
3. Range	Perform routine repair for heat exchangers 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 heat exchangers</p> <ul style="list-style-type: none"> ◆ Understand the functions, structure and basic working principles of heat exchangers generally used in steam turbine systems <p>6.2 Techniques and procedures of repairing heat exchangers</p> <ul style="list-style-type: none"> ◆ Understand common defects of general heat exchangers and techniques of handling them, and use general repair and testing instruments and tools to perform repair tasks such as <ul style="list-style-type: none"> • Pipe leakage • Locating the leaking tubes for plugging • Replace tube nest if necessary ◆ Record in the repair report the status of equipment before and after repair and the measures taken during repair <p>6.3 Professionalism in repairing heat exchangers</p> <ul style="list-style-type: none"> ◆ Follow the requirements of practical guidelines and manufacturer's repair guidelines to perform repair and maintenance for the heat exchangers ◆ Understand the need and principles of scheduled repair and maintenance of the heat exchangers, including inspecting, maintaining and testing them
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to perform routine repair for the heat exchangers under instruction and according to guidelines; and</p> <p>(ii) Capable to complete repair report forms for the heat exchangers.</p>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses techniques of repairing general hybrid type and surface heat exchange equipment.