

1. Title	Supervise the overhaul of high pressure and high flow water pumps
2. Code	EMPERM402A
3. Range	Supervise the routine overhaul of high pressure (above 30bar) and high flow (above 5m ³ /hr) water pumps (e.g. multi-stage centrifugal pumps) in general industrial plants, power plants or other places.
4. Level	4
5. Credits	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Construction and overhaul method of high pressure and high flow water pumps</p> <ul style="list-style-type: none"> ◆ Master the construction and common defects of high pressure and high flow water pumps, including the function of the mechanical self-protection devices of pumps ◆ Master the use, repair and maintenance of repairing tools and measuring instruments ◆ Master the key points and quality standards for repairing high pressure and high flow water pumps, including disintegration, cleaning and inspection, reconditioning and testing <p>6.2 Supervise the overhaul of high pressure and high flow water pumps and fore pumps</p> <ul style="list-style-type: none"> ◆ Supervise and coordinate overhaul procedures for high pressure and high flow water pumps, fore pumps and hydraulic couplings, including disintegration, cleaning and inspection, reconditioning, replacing parts, reinstalling and testing <p>6.3 Professionalism in supervising the overhaul of high pressure and high flow water pumps</p> <ul style="list-style-type: none"> ◆ Supervise the overhaul of high pressure and high flow water pumps according to the drawings, engineering and safety requirements ◆ Supervise, coordinate and control the overhaul of high pressure and high flow water pumps so as to meet the engineering requirements and quality standards
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to supervise the whole process of overhaul for high pressure and high flow water pumps; and</p> <p>(ii) Capable to compile supervisory report on the overhaul of high pressure and high flow water pumps.</p>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses the basics of general water pumps, fore pumps and hydraulic couplings, and the competency of EMPEIN302A “Install high pressure and high flow water pumps”.