1. Title	Install high pressure and high flow water pumps or the same type of pumps				
2. Code	EMPEIN302A				
3. Range	Perform installation work for high pressure (above 30bar) and high flow (above 5m ³ /hr) water pumps in general industrial plants, power plants or other places.				
4. Level	3				
5. Credits	3				
6. Competency	Performance Requirements				
	 6.1 Knowledge and requirements for installing high pressure and high flow water pumps 6.1 Knowledge and requirements for installing high pressure and high flow pumps: 6.1 Understand installation requirements of installation drawings of different types of high pressure and high flow pumps: 6.1 Base requirements 6.1 Coupling requirements 6.1 Pump in/out system requirements for high pressure and high flow pumps 				
	 6.2 Methods and procedures of installing high pressure and high flow water pumps Use equipment alignment and leveling instruments to measure high pressure and high flow pumps and their engine bases, including: equipment alignment and levelling methods and adjusted value calculation; equipment centering methods and adjusted value calculation; Use all kinds of levelling and alignment methods such as level gauge, drawn steel wire, etc. to measure the leveling of bases, including: horizontal alignment of bases perpendicularity of anchor bolts Draw the sizing block configuration plan according to equipment base dimensions Know about radial swaying, and measurement and adjustment of end offsetting of couplings Fasten anchor bolts systematically to specified amount of force Inspect and measure the rotating parts of large-scale high pressure and high flow pumps after fastening Measure and adjust vertical high pressure and high flow pump impeller runout 				

	6.3	Professionalism in installing high pressure and high flow water pumps	high pressure and Control the enginerequirements and Follow the safety codes of practice order to perform	ng and engineering requirements to carry out d high flow pump installation neering progress so as to meet the engineering l quality standard v requirements for work, requirements of the and manufacturers' installation guidelines in high pressure and high flow pump installation stallation tools or instruments properly	
7. Assessment Criteria	The inte (i) (ii) (iii) (iv)	 Capable to complete work test, including correctly performing the procedures of leveling, alignment and installation, recording data and calibrating the equipment to the standards as required; Capable to complete the simple installation report for high pressure and high flow pumps; and 			
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses the competency of EMPEIN202A "Install high pressure and low flow water pumps or the same type of pumps".				