1. Title	Install water pumps
2. Code	EMCUIN220A
3. Range	Work at general industrial plants, power plants, ship repair, plumbing workplaces pumping involved.
4. Level	2
5. Credits	3
6. Competency	Performance Requirements
	6.1 Knowledge of and requirements for a pumps when reading assembly drawings: installation of water pumps • requirements for pump foundations • requirements for couplings • requirements for the pump inlet and outlet system
	 Methods and procedures for installation of water pumps Methods of a water pump and its motor foundation, including: Methods of alignment and levelling and calculation of adjustments; Methods of centring and calculation of adjustments; Methods of entring and calculation of adjustments; Methods of alignment and levelling instruments to take measurements; Methods of alignment and levelling instruments to take measurements of a water pumps; Methods of alignment and levelling instruments to take measurements; Methods of alignment and levelling instruments. Methods of alignment and levelling instruments to take measurements; Methods of alignment and levelling instruments. Methods of alignment and levelling instruments. Methods of centring and calculation of adjustments; Methods of alignment and levelling and calculation of adjustments; Methods of alignment and levelling and calculation of adjustments; Methods of alignment and levelling and calculation of adjustments; Methods of alignment and levelling and calculation of adjustments; Methods of alignment and levelling and calculation of adjustments. Methods of alignment instruments, to take measurements on-site, including: Methods of alignment and levelling and calculation of adjustments. Methods of alignment and levelling and calculation of adjustments. Me
	 Frofessionalism in water pump installation Frofessionalism in water pump installation Install water pumps according to drawings and works specifications Control the progress of installation to meet works specifications and quality standards Understand the legal requirements on work safety, the code of practice and the supplier's guidelines when performing tasks of water pump installation Capable to use installation tools and equipment effectively

7. Assessment	The integrated outcome requirement of this unit of competency is:
Criteria	(i) Capable to install water pumps efficiently;
	(ii) Capable to complete work tests, including proper execution of leveling and alignment procedures and installation procedures, recording data and adjusting of equipment to required standards; and
	(iii) Capable to compile reports on installation of water pumps and state clearly their operation.
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of mechanics and installation skills.