1. Title	Install hydraulic installations				
2. Code	EMPEIN203A				
3. Range	Carry out general installation tasks for hydraulic installations in general industrial plants, power plants or other places.				
4. Level	2				
5. Credits	9				
6. Competency	Performance Requirements				
	 6.1 Composition of hydraulic drawings of hydraulic systems 6.1 Composition of hydraulic drawings of hydraulic systems Component parts and their functions in the system Symbols used for the system Know about the basic working principles of various types of oil hydraulic pumps and motors Classification of various types of oil hydraulic pumps and motors Classification of various types of various types of hydraulic cylinders Know about the basic working principles of various types of hydraulic cylinders Classification and characteristics of hydraulic cylinders Know about the basic working principles of various types of hydraulic control valves Classification and characteristics of various types of hydraulic control valves Know about the classification and materials of seals Know about the composition of the accessories (e.g. hydraulic pipes) 				
	 6.2 Methods and procedures of installing various types of hydraulic pumps, hydraulic cylinders and hydraulic control valves Follow the installation guides to install various types of Nydraulic cylinders and hydraulic control valves Follow the installation guides to install various types of Nydraulic cylinders Follow the installation guides to install various types of Nydraulic cylinders Follow the installation guides to install various types of Nydraulic cylinders Follow the installation guides to install various types of Nydraulic cylinders Follow the installation guides to install various types of Nydraulic control valves Follow the installation guides to install various types of Nydraulic control valves Flow control valves Direction control valves Cartridge valves Electrolyte proportional valves 				

			•	Perform installation tasks for various types of sealing rings	
				• O ring seal	
				• Lip seal	
				Coaxial seal and supporting ring	
				Mechanical seal	
				• Dust proof ring	
			•	Perform installation of accessories	
				Accumulator	
				• Oil tank	
				• Cooler	
				• Hydraulic pipes (such as steel pipe and high pressure	
				plastic hose) and fittings	
	6.3	Professionalism in	٠	Follow the installation guidelines to perform installation tasks	
		installing hydraulic		for hydraulic installations	
		equipment	•	Follow the installation guidelines to perform installation tasks	
				for hydraulic drive system and various types of control loops	
				Pressure control loops	
				Speed control loops	
				Direction control loops	
7. Assessment	The integrated outcome requirements of this unit of competency is:				
Criteria	(i) Capable to follow installation guidelines to perform installation tasks under instruction for various				
	types of hydraulic pumps, hydraulic motors, hydraulic cylinders control valves, hydraulic seal				
	devices and accessories.				
9 Demontra					
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses				
	general bench fitting techniques and elementary mechanical knowledge.				