1. Title	Startup preparations for steam turbines		
2. Code	EMPEOM404A		
3. Range	Perform startup preparations for steam turbines in general industrial plants, power plants or other places.		
4. Level	4		
5. Credits	6		
6. Competency	Performance Requirements		
	 Steam turbine startup principle Understand the importance of preparing the startup of steam turbines Understand the procedures preparing for the startup of steam turbines Prepare startup preperation Check the equipment system 		
	 Methods and procedures preparing for the startup of steam turbines Formulation of startup plan Formulation of startup operation procedures Division of labour for operating personnel Coordination with electricians and instrument mechanics Job sheet recording the process of startup Special instruments: tachometer, thermometer, vibration meter, deflection meter Tools: probe, valve spanner, flashlight Perform equipment system check Checking steam turbine's main body, auxiliaries and system Checking control and measuring instruments Checking steam and water system valves' positions Perform pre-startup testing Conditioning system static testing Protection system testing 		
	 Follow manufacturer's instructions and procedures for steam turbine preparing for the startup of steam turbine Prepare for the startup of steam turbine in compliance with the statutory code of safety and codes of practice Immediately correct and remedy abnormal operating parameters 		

7. Assessment Criteria	The integrated outcome requirements of this unit of competency are:		
	(i)	Capable to clearly explain the preparations for the startup of steam turbine;	
	(ii)	Capable to perform the preparations for the startup of steam turbine according to procedures;	
	(iii)	Capable to compile reports on the preparations for the startup of steam turbine; and	
	(iv)	Capable to clearly report the status of preparing for the startup of steam turbine.	
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses the competency of EMPEOM308A"Normal running operations and adjustment of steam turbine".		