

1. Title	Startup and shutdown preparations for industrial water treatment system		
2. Code	EMPEOM309A		
3. Range	Perform startup and shutdown preparations for industrial water treatment system in general industrial plants, power plants or other places.		
4. Level	3		
5. Credits	6		
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Operating principle of industrial water treatment system</p> <ul style="list-style-type: none"> ◆ Understand the functions and operating principle of devices in industrial water treatment system ◆ Know about materials exclusively for industrial water treatment <ul style="list-style-type: none"> • Types and performance of filter materials • Classification, serial number and performance of ion exchange resin • Saturation and regeneration of ion exchange resin • Types and performance of ion exchange membrane • Types and performance of reverse osmosis membrane ◆ Understand procedures preparing for the startup and shutdown of industrial water treatment system ◆ Understand the importance of implementing procedures preparing for the startup and shutdown of industrial water treatment system <p>6.2 Procedures preparing for the startup and shutdown of industrial water treatment system</p> <ul style="list-style-type: none"> ◆ Know the treatment of boiler make-up industrial water, and decide whether the status of system is suitable for startup or shutdown ◆ Judge whether various types of industrial water treatment system are suitable for startup or shutdown ◆ Compile reports on startup and shutdown preparations for various types of industrial water treatment system <p>6.3 Professionalism in startup and shutdown preparations for industrial water treatment system</p> <ul style="list-style-type: none"> ◆ Follow manufacturer's instructions and procedures of operation to perform startup and shutdown preparations for industrial water treatment system ◆ Perform startup and shutdown preparations for industrial water startup stem in compliance with the code of safety and codes of practice 		

7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> (i) Capable to clearly explain the procedures preparing for the startup and shutdown of industrial water treatment system; (ii) Capable to perform startup and shutdown preparations independently for industrial water treatment system according to procedures; (iii) Capable to complete simple reports on industrial water treatment system startup and shutdown; and (iv) Capable to clearly report the status of industrial water treatment system.
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of industrial water treatment system.</p>