

1. Title	Manage reliability of plant power generator equipment	
2. Code	EMPEOM601A	
3. Range	Manage electrical systems in general industrial plants, power plants or other places to ensure the reliability of power generating mechanical equipment.	
4. Level	6	
5. Credits	3	
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Content of plant power generating mechanical equipment reliability management</p> <ul style="list-style-type: none"> ◆ Be acquaint with the knowledge of reliability management of plant power generator equipment ◆ Be acquaint with the statistical contents of reliability management of primary and auxiliary power generator equipment ◆ Be Capable to handle the various complicated and irregular faulty situations of power generator equipment and systems, and propose effective solutions to eliminate these faults ◆ Be Capable to propose, design and carry out the optimization of planning of plant power generator equipment and system <p>6.2 Plant power generator equipment operation management</p> <ul style="list-style-type: none"> ◆ Be Capable to formulate measures to avoid non-scheduled shutdown of the plant primary and auxiliary power generator equipment, to enhance the reliability of the electrical system and to reduce maintenance costs ◆ Reduce the influence on the non-scheduled shutdown of the electrical system of the plant <ul style="list-style-type: none"> • Maintain sufficient number of plant auxiliary power generator equipment • Carry out periodic inspection and maintenance of power generator equipment • Carry out periodic inspection and maintenance of stand-by power generator equipment • Set down emergency plan ◆ Compile manuals on the reliability of power generation 	

	<p>6.3 Professionalism in managing plant power generator equipment</p> <ul style="list-style-type: none"> ◆ Be Capable to follow the code of safety and the code of practice to perform reliability management for plant power generator equipment ◆ Be Capable to review, audit, correct and optimize the related code of safety and code of practice for power generator equipment reliability management ◆ Be Capable to introduce new system, new technology and advanced technology to improve or maintain power generator equipment reliability
<p>7. Assessment Criteria</p>	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to effectively manage the primary and secondary units of the plant power generating mechanical equipment comprehensively so that the plant could have a highly reliable power supply; and</p> <p>(ii) Capable to optimize the generator equipment reliability in the system design area.</p>
<p>8. Remarks</p>	<p>The credit value of this unit of competency is set on the presumption that the person already possesses mechanical and electrical knowledge and fully understands process of power generation.</p>