

1. Title	Service generators and accessories		
2. Code	EMCUMA205A		
3. Range	Use typical servicing and inspection instruments and tools or tailor-made mechanical tools to repair or maintain single-phase or three-phase AC and DC generators and accessories at generator and accessories servicing workshops or locations with generators.		
4. Level	2		
5. Credits	4		
6. Competency	<u>Performance Requirements</u>		
6.1	Structure and working principles of generators and accessories	<ul style="list-style-type: none"><li>◆ Understand the structure and working principles of single-phase or three-phase AC and DC generators, including:<ul style="list-style-type: none"><li>• Stator and winding</li><li>• Rotor and winding</li><li>• Exciter winding rectifier</li><li>• Other kinds of winding e.g. interlope freed compensation</li><li>• Mechanical parts e.g. bearing</li><li>• Commutator</li></ul></li><li>◆ Understand the structure and working principles of generator accessories, including:<ul style="list-style-type: none"><li>• Charging device</li><li>• Battery</li></ul></li></ul>	
6.2	Methods and procedures of servicing generators and accessories	<ul style="list-style-type: none"><li>◆ Capable to service a generator effectively, including checking, cleaning, measurement, maintenance and commissioning, according to servicing instructions and standards</li><li>◆ Capable to service generator accessories effectively, including checking, cleaning, measurement, maintenance and commissioning, according to servicing instructions and standards</li><li>◆ Capable to test various devices of generator accessories according to standards</li><li>◆ Capable to use typical servicing and inspection instruments and tools or tailor-made tools for generator installation and dismantling effectively</li></ul>	
6.3	Professionalism in repairing and maintaining generators and accessories	<ul style="list-style-type: none"><li>◆ Capable to perform general repair and maintenance of generators and accessories according to servicing instructions and standards</li><li>◆ Understand the legal requirements on work safety and the code of practice when performing repair and maintenance of generators and accessories</li></ul>	

7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <ul style="list-style-type: none"> <li>(i) Capable to check and maintain a three-phase generator effectively and correctly according to servicing standards; and</li> <li>(ii) Capable to commission and set various core accessories effectively.</li> </ul>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of servicing electrical equipment.</p>