

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	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Structure and working principles of generators and accessories</p> <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> <p>6.2 Methods and procedures of servicing generators and accessories</p> <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> <p>6.3 Professionalism in repairing and maintaining generators and accessories</p> <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	The integrated outcome requirement of this unit of competency is: <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	The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of servicing electrical equipment.