

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. Credit	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. interpole 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 requirements of this unit of competency are:  (i) Capable to check and maintain a three-phase generator effectively and correctly according to servicing standards; and  (ii) Capable to commission and set various core accessories effectively.
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.