

1. Title	Repair electronic control equipment for traction control system and main current transformer	
2. Code	EMCUMA303A	
3. Range	Use electronic control equipment repairing techniques to service electronic control equipment for traction control system and main current transformer at servicing stations or work sites.	
4. Level	3	
5. Credits	9	
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Basic principles of operating control equipment for traction control system and main current transformer</p> <ul style="list-style-type: none"> <li>◆ Understand the basic principles of operating control equipment for traction control system and main current transformer, including: <ul style="list-style-type: none"> <li>• Main electronic power circuit equipment for traction control system</li> <li>• Electronic power control circuit equipment for traction control system</li> <li>• Main electronic power circuit equipment for main current transformer</li> <li>• Electronic power control circuit equipment for main current transformer</li> </ul> </li> </ul> <p>6.2 Methods of repairing traction control system and main current transformer</p> <ul style="list-style-type: none"> <li>◆ Use electronic power control equipment repairing techniques to repair main electronic power circuit equipment for traction control system, including: <ul style="list-style-type: none"> <li>• Power control components</li> <li>• Reactor</li> <li>• Main circuit</li> </ul> </li> <li>◆ Use electronic control equipment repairing techniques to repair electronic power control circuit equipment for traction control system, including: <ul style="list-style-type: none"> <li>• Testing electronic power protection devices</li> <li>• Set various electronic control units</li> </ul> </li> <li>◆ Use inverter repairing techniques to repair service main electronic power circuit equipment for main current transformer, including: <ul style="list-style-type: none"> <li>• Power control components</li> <li>• Reactor</li> <li>• Main circuit</li> </ul> </li> <li>◆ Use electronic control equipment repairing techniques to repair electronic power control circuit equipment for main current transformer, including: <ul style="list-style-type: none"> <li>• Testing electronic power protection devices</li> <li>• Set various electronic control units</li> <li>• Check and test data logging functions</li> </ul> </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 repair, test and set all electronic power control units for traction control system correctly and effectively; and</li> <li>(ii) Capable to repair, test and set all electronic power control units for main current transformer correctly and 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 electronic control equipment for traction control system and main current transformer.</p>