

1. Title	Repair faults in current transformers and control equipment
2. Code	EMCUOR304A
3. Range	Repair the faults in current transformers and control equipment at servicing stations or external sites.
4. Level	3
5. Credit	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Working principles of current transformer ♦ Understand the structure and working principles of current transformer</p> <p>6.2 Repair current transformer ♦ Repair main circuit of current transformer</p> <ul style="list-style-type: none"> <li>• Measure and check the main circuit of current transformer to find out the root causes of fault according to the fault symptoms and the working principles of current transformer</li> <li>• Repair the identified fault of faulty equipment or components</li> </ul> <p>♦ Repair the power electronic control equipment of the current transformer</p> <ul style="list-style-type: none"> <li>• Measure and check the control unit of current transformer to find out the origin of fault according to the fault symptoms as well as the structure and working principles of current transformer control system</li> <li>• Repair the fault after finding out the fault equipment or component</li> </ul> <p>♦ Use the information stored in the data logging device to enhance the efficiency of fault finding</p> <ul style="list-style-type: none"> <li>• Access and use the information of the data logging device to enhance the efficiency of finding the fault in the current transformer</li> </ul> <p>6.3 Professionalism in repairing current transformer and its control equipment ♦ Repair current transformer and its control equipment according to the safety instructions and code of practice</p>
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to find out the fault in the main circuit of a current transformer within a reasonable period of time according to the signs of fault; and</p> <p>(ii) Capable to find out the fault in the electronic power control equipment of a current transformer within a reasonable period of time according to the symptoms of fault.</p>
8. Remarks	This unit of competency is suitable for training electrical engineering personnel. The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of electrical installation.