

1. Title	Apply fault finding techniques to find the root causes of fault
2. Code	EMCUOR301A
3. Range	Analyze the fault and performance information on the maintenance records of the electrical and mechanical equipment, and apply the fault finding techniques to find out the root causes of fault.
4. Level	3
5. Credits	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Analyze the fault and record of the electrical and mechanical equipment</p> <ul style="list-style-type: none"> <li>◆ Understand the classification and techniques to retrieve fault information on the maintenance of the electrical and mechanical equipment</li> </ul> <p>6.2 Apply fault finding techniques to find the root of fault</p> <ul style="list-style-type: none"> <li>◆ Analyze the fault information and performance record of the equipment, and enhance the effectiveness of fault finding with the help of the following : <ul style="list-style-type: none"> <li>• Bathtub curve</li> <li>• The failure of similar equipment</li> </ul> </li> <li>◆ Apply the following fault finding techniques to enhance the effectiveness detecting the electrical and mechanical faults <ul style="list-style-type: none"> <li>• Middle point tracing technique</li> <li>• Input signals injection technique for tracing fault origin</li> <li>• Use potential divider method to calculate the location of fault</li> </ul> </li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to retrieve and analyze the fault information effectively on maintenance record of the electrical and mechanical equipment, and apply the fault finding techniques to find out the root cause of fault effectively.</p>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic electrical and mechanical knowledge.