1. Title	Assess the performance of simple AC/DC circuits
2. Code	EMELDE206A
3. Range	Applicable to electrical and mechanical design. Apply commonly used electrical theories to assess the performance of simple AC/DC circuits.
4. Level	2
5. Credit	9
6. Competency	Performance Requirements
	<ul> <li>6.1 Understand commonly used electrical theories such as:         Ohm's law, Kirchhoff's law, superposition principle,         Thevenin's theorem and Norton's theorem</li> <li>6.2 Apply commonly used electrical theories to         assess the performance of simple AC/DC         circuits         <ul> <li>Apply knowledge relevant to inductive impedance, capacitive impedance and circuit impedance</li> <li>Apply knowledge relevant to current source and voltage source</li> <li>Draw simple phaser diagrams</li> <li>Apply commonly used electrical theories to assess the performance of simple AC/DC circuits</li> </ul> </li> </ul>
7. Assessment Criteria	The integrated outcome requirements of this unit of competency are:  (i) Capable to apply commonly used electrical theories to calculate the voltage, current, power and power factor of AC/ DC circuits of series-connected resistors and/or parallel-connected resistors, and access the performance of simple AC/DC circuits; and  (ii) Capable to draw simple voltage and current phaser diagrams.
8. Remarks	