

1. Title	Know about fundamentals of electricity related to plumbing and their applications
2. Code	EMPDDE104A
3. Range	Calculate the electric current, electric resistance, electric power, etc. at plumbing installations.
4. Level	1
5. Credits	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Understand units and simple laws of electricity</p> <ul style="list-style-type: none"> ◆ Identify basic electrical terms such as electric current, electric voltage, electric resistance, electric energy, electric power, etc. ◆ Distinguish basic AC electrical terms such as impedance, capacitive impedance, inductive impedance, etc. ◆ Understand simple laws such as Ohm's law <p>6.2 Apply principles and simple laws of electricity</p> <ul style="list-style-type: none"> ◆ Apply principles of electricity to analyze circuits ◆ Apply simple laws to obtain data of electric current, electric energy, electric power, etc. ◆ Follow the guidelines on electrical principles and laws to analyze circuits and obtain data values
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to analyze circuits correctly and systematically; and</p> <p>(ii) Capable to calculate electrical values correctly.</p>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of mathematics. This unit of competency does not require the person to have basic knowledge of electricity.