1. Title	Identify general properties of different types of typical electrical and mechanical engineering materials
2. Code	EMCUDE109A
3. Range	Capable to identify the general properties and range of application of different types of typical electrical and mechanical engineering materials for electrical and mechanical design, installation, repair and maintenance.
4. Level	1
5. Credits	3
6. Competency	Performance Requirements
	6.1 General properties ◆ Understand the general properties of typical electrical and of typical mechanical engineering materials including metals and non-metals: • Mechanical properties such as strength, hardness, resilience, etc. engineering etc. • Density materials • Electric conductivity • Thermal conductivity • Melt ability
	6.2 Identify properties Capable to identify different types of typical electrical and mechanical engineering materials, including metal type: steel, copper, aluminium, iron, etc., and non-metal type: wood, plastic, resin, etc. and mechanical engineering materials Capable to identify basic range of application of different types of typical electrical and mechanical engineering materials Capable to perform simple design, installation, repair and maintenance engineering works according to the general properties and range of application of different types of typical electrical and mechanical engineering materials
7. Assessment Criteria	The integrated outcome requirement of this unit of competency is: (i) Capable to identify the general properties and range of application of different types of typical electrical and mechanical engineering materials.
8. Remarks	This unit of competency is applicable to new entrants of electrical and mechanical engineering services.