1. Title	Assess the performance of transformers
2. Code	EMELDE317A
3. Range	Applicable to electrical work. Understand the basic classification and construction of transformers, and use turns ratio to assess the current and voltage output of common power transformers.
4. Level	3
5. Credit	6
6. Competency	Performance Requirements 6.1 Understand basic electromagnetic principles ♦ Understand exciting current, flux density, magnetic field strength, iron loss and copper loss ♦ Understand the relationship between exciting current and iron loss ♦ Understand the relationship of iron loss to voltage and frequency ♦ Understand turns ration of transformers 6.2 Understand the basic classification and construction of transformers, and use turns ratio to assess the current and voltage output of transformers ♦ Understand the basic classification and construction of transformers ♦ Understand methods of cooling transformers ♦ Understand basic transformers principles ♦ Use turns ratio to assess the current and voltage output of transformers
7. Assessment Criteria	The integrated outcome requirements of this unit of competency is: (i) Capable to understand the operating principle of single-phase transformers and use turns ratio to assess the current and voltage output of transformers.
8. Remarks	