

1. Title	Select distribution transformers for power supply to buildings or work sites
2. Code	EMELDE212A
3. Range	Applicable to electrical work. Understand the categories, basic construction and principles of distribution transformers; assess the total load current of facilities in buildings or worksites; and select appropriate distribution transformers in general conditions.
4. Level	2
5. Credit	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Understand the categories, basic construction and principles of distribution transformers</p> <ul style="list-style-type: none"> ◆ Understand the categories and basic construction of distribution transformers such as auto-coupled and isolated; iron core-type and shell-type; single-phase and three-phase power supplies ◆ Understand the relationship of transformer power to voltage and current ◆ Understand the relationship of transformer turns ratio to voltage and current ◆ Understand the method of cooling transformer <p>6.2 Select distribution transformers for power supply</p> <ul style="list-style-type: none"> ◆ Assess the total load current of facilities in the building or worksite according to the types and distribution of branch circuit load ◆ Analyze the actual situation of the building or worksite, such as the total load current, reserve capacity, equipment transport, space for installation and repair, etc., and select appropriate distribution transformers for power supply to the building or worksite, ensuring that they meet the safety standards and legal requirements
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to select appropriate distribution transformers in general conditions according to the total load current requirement of the facilities in buildings or worksites.</p>
8. Remarks	