

1. Title	Select air-handling equipment
2. Code	EMACDE603A
3. Range	Apply highly specialized techniques and knowledge and make complex data analysis, planning, design and judgement, at design studios, so as to select air-handling equipment.
4. Level	6
5. Credit	12
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge of selecting air-handling equipment</p> <ul style="list-style-type: none"> ◆ Understand the construction, characteristics and application range of horizontal, suspended and packaged types of air-handling units ◆ Understand the construction , characteristics and application range of fan coil units ◆ Understand the classification, characteristics and application range of air filters ◆ Understand the construction , characteristics and application range of different types of air purifiers <p>6.2 Methods and procedures of selecting air-handling equipment</p> <ul style="list-style-type: none"> ◆ Select air-handling equipment, including: <ul style="list-style-type: none"> • Determine the type and arrangement of air-handling unit according to uses and building conditions • Determine the type and arrangement of fan coil unit, and its intake of fresh air according to uses and building conditions ◆ Perform audit checks for the surface air cooler of the selected air-conditioning plant to ensure that the unit plant the design requirements ◆ Select suitable air filters according to use requirements ◆ Select suitable air purifiers according to use requirements <p>6.3 Professionalism in selecting air-handling equipment</p> <ul style="list-style-type: none"> ◆ Select air-handling equipment according to legal requirements and codes of practice
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to use highly specialized techniques and academic skills and make complex data analysis, planning, designing and judgement so as to select suitable air-handling equipment.</p>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses general knowledge of air-conditioning and refrigeration.