

1. Title	Test overall performance of central air-conditioning systems
2. Code	EMACIT502A
3. Range	Apply a wide range of technical and specialized skills to test and analyze the overall performance of central air-conditioning systems at central air-conditioning systems operation sites or their machine rooms.
4. Level	5
5. Credit	12
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge of testing overall performance of central air-conditioning systems</p> <ul style="list-style-type: none"> ◆ Understand the details, procedures and importance of testing the overall performance of central air-conditioning systems ◆ Understand the typical standards for testing the overall performance of central air-conditioning and refrigeration systems <p>6.2 Methods and procedures of testing overall performance of central air-conditioning systems</p> <ul style="list-style-type: none"> ◆ Make preparations for testing the overall performance of central air-conditioning systems, including: <ul style="list-style-type: none"> • Coordinating with other working units to compile the plans and programmes for testing the overall performance of central air-conditioning systems • Preparing appropriate testing instruments according to testing requirements • Choosing suitable points for testing ◆ Test the overall performance of central air-conditioning systems, including: <ul style="list-style-type: none"> • Checking whether all central air-conditioning system equipment run properly • Measuring the operating parameters of indoor air • Measuring the operating parameters of all central air-conditioning system equipment • Analyzing and adjusting all central air-conditioning system equipment so that the operating parameters vary within the allowable scope of variation ◆ Analyze the overall performance data of central air-conditioning systems, including: <ul style="list-style-type: none"> • Consolidate the data to compile engineering charts • Appraising the overall performance of the central air-conditioning systems according to the engineering charts to see if the performance meets the design requirements

	<p>6.3 Professionalism in testing overall performance of central air-conditioning systems</p> <ul style="list-style-type: none"> ◆ Lead a team and command wide ranging, technical, specialized, analytical and creative skills to conduct testing on the overall performance of central air-conditioning systems ◆ Understand the legal requirements and code of practice so as to undertake the testing of overall performance of central air-conditioning systems
<p>7. Assessment Criteria</p>	<p>The integrated outcome requirement of this unit of competency is:</p> <ul style="list-style-type: none"> (i) Capable to lead a team to complete the testing of overall performance of central air-conditioning systems; and (ii) Capable to analyze the overall performance data of central air-conditioning systems to see if the performance meets the design requirements.
<p>8. Remarks</p>	<p>The credit value of this unit of competency is set on the presumption that the person already possesses general knowledge of central air-conditioning system operation.</p>