

1. Title	Overall plant design		
2. Code	EMPEDE602A		
3. Range	Perform overall plant layout planning for general industrial plants, power plants or other places.		
4. Level	6		
5. Credits	9		
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Overall plant design concepts</p> <ul style="list-style-type: none"> ◆ Be familiar with the systems and facilities needed to be installed in plants, such as <ul style="list-style-type: none"> • Various types of pumps • Various types of pipes • Large containers (such as water tank and boiler) ◆ Be familiar with the characteristics of various types of equipment, such as <ul style="list-style-type: none"> • Space requirement • Requirements for equipment environment such as temperature and humidity • Impact on surrounding facilities during operation, such as generating heat and releasing gases <p>6.2 Techniques and methods of designing overall plant layout</p> <ul style="list-style-type: none"> ◆ Carefully consider all related factors and design a systematic plant layout <ul style="list-style-type: none"> • Make good use of space • Make arrangement according to the work flow ◆ Draft the blueprint of the overall plant design <p>6.3 Professionalism in designing overall plant layout</p> <ul style="list-style-type: none"> ◆ Finish the overall plant design based on the required plant specifications and design experience 		
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to design the overall layout of the plant logically; and</p> <p>(ii) Capable to draft the overall design blueprint of the plant.</p>		
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses the techniques of using drawing tools or computer software and fully understands the use of plant.		