

1. Title	Revamp the design of railway overhead feeder systems by making use of new technological development	
2. Code	EMRADE605A	
3. Range	By applying professional knowledge of railway overhead feeder systems and the studies of new technological development, revamp the design of railway overhead feeder systems by making use of new technological development to enhance the safety, quality, environmental protection function and efficiency of railway operation.	
4. Level	6	
5. Credits	9	
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Techniques of revamping the design of railway overhead feeder systems by making use of new technological development</p> <ul style="list-style-type: none"> <li>◆ Be familiar with the working principles and functional standards for railway overhead feeder systems</li> <li>◆ Master the techniques of screening, reviewing and integrating information about new technological development so as to assess and study the strategy of applying new technological development</li> <li>◆ Apply new technological development to revamp system design in coordination with relevant equipment</li> <li>◆ Master the techniques of designing simulated operational tests</li> </ul> <p>6.2 Method and procedures of revamping the design of railway overhead feeder systems by making use of new technological development</p> <ul style="list-style-type: none"> <li>◆ Capable to revamp the railway overhead feeder design by making use of new technological development according to the overall design requirements for railway overhead feeder systems</li> <li>◆ Assess, identify and confirm the benefits of revamping the design of railway overhead feeder systems by making use of new technological development</li> <li>◆ Assess the risks of adopting the revamped railway overhead feeder system design</li> <li>◆ Perform simulated operational tests for the new system design and assess the performance data of the system</li> <li>◆ Make decisions and plans for the new design, and formulate follow-up and contingency plans</li> </ul> <p>6.3 Professionalism in revamping the design of railway overhead feeder systems by making use of new technological development</p> <ul style="list-style-type: none"> <li>◆ Capable to revamp the design of railway overhead feeder systems according to the standards and requirements for work safety, health, environmental protection and quality management of railway works</li> <li>◆ Understand the safety guidelines as required by the law and codes of practice in revamping the design of railway overhead feeder systems</li> </ul>	

7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <ul style="list-style-type: none"> <li>(i) Capable to assess, identify and confirm effectively the benefits of “revamping the design of railway overhead feeder systems by making use of new technological development”; and</li> <li>(ii) Capable to formulate effective decisions and plans for “revamping the design of railway overhead feeder systems by making use of new technological development”, and formulate effective follow-up and contingency plans.</li> </ul>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses professional knowledge of railway overhead feeder system design.</p>