

1. Title	Manage the operation of the railway electrical and mechanical engineering designing teams
2. Code	EMRADE603A
3. Range	Apply the knowledge and techniques of managing, coordinating and supervising design work to manage the operation of designing teams according to the overall design concept of railway system and the specifications and quality required for the design work, ensuring the overall design quality and efficiency.
4. Level	6
5. Credits	20
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Principles and techniques of managing the operation of the railway electrical and mechanical engineering designing teams</p> <ul style="list-style-type: none"> ◆ Be familiar with the work flow of railway electrical and mechanical engineering design and know how to choose the best quality check points ◆ Be familiar with the overall design concept of railway system and the specifications and quality required for the design work ◆ Master the manpower information arrangement and the training strategy ◆ Master the techniques of reviewing comprehensively the design work flow, human resources and organizational re-engineering <p>6.2 Methods and procedures of managing the operation of the railway electrical and mechanical engineering designing teams to ensure the overall design quality and efficiency</p> <ul style="list-style-type: none"> ◆ By applying the knowledge and techniques of coordination and supervision, and mastering the specifications and quality required for the overall design of the railway system, monitor the quality check points to ensure design quality and efficiency ◆ Capable to maintain good communication and coordination among all the designing teams in the course of design ◆ Capable to review and analyze the job division of the designing teams to enhance the overall design efficiency ◆ Capable to review the design work flow to improve the structure of the designing teams ◆ By referring to quality management model, capable to review and improve the structure of the designing teams ◆ Formulate plans for persistently improving the design quality and efficiency, including <ul style="list-style-type: none"> • Negotiating with staff on formulation of training programmes and providing adequate training for them • Establishing good communication channels • Planning equipment update and upgrade

	<p>6.3 Professionalism in managing the operation of the railway electrical and mechanical engineering designing teams</p> <ul style="list-style-type: none"> ◆ Capable to manage the operation of the railway electrical and mechanical engineering designing teams according to the standards and requirements for safety, health, environmental protection and quality management of railway works ◆ Understand the safety guidelines as required by the law and codes of practice in managing the operation of the railway electrical and mechanical engineering designing teams
<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 supervise and coordinate the operation of the railway electrical and mechanical engineering designing teams effectively, ensuring the overall design quality and efficiency; and (ii) Capable to review and improve the operation of the railway electrical and mechanical engineering designing teams effectively, and formulate effective plans for persistently improving the design quality and efficiency.
<p>8. Remarks</p>	<p>The credit value of this unit of competency is set on the presumption that the person already possesses professional knowledge of electrical and mechanical engineering design and management.</p>