

1. Title	Implement coordination and integration management for railway electrical and mechanical engineering projects	
2. Code	EMRAPM503A	
3. Range	In managing railway electrical and mechanical engineering projects, apply coordination and integration engineering knowledge and techniques to manage the execution and development of the projects in order to achieve the objectives of the projects and keep in line with the organizational development.	
4. Level	5	
5. Credits	9	
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Principles and techniques of coordination and integration management for railway electrical and mechanical engineering projects</p> <ul style="list-style-type: none"> ◆ Be familiar with the knowledge and techniques of estimating, assessing and ascertaining the features of railway electrical and mechanical engineering projects ◆ Clearly understand the objectives of the engineering projects, their connection with other works of the organization, and the importance and usage of their interfaces ◆ Be familiar with the methods for developing project engineering plans ◆ Master general management skills for engineering plans including communication skills, human relations, review skills, coordination skills, information management, problem solving skills and document handling skills, etc. ◆ Be familiar with the management skills for contingency procedures <p>6.2 Methods and procedures of coordination and integration management for railway electrical and mechanical engineering projects</p> <ul style="list-style-type: none"> ◆ Capable to ascertain the limits, assumptions and boundaries of railway electrical and mechanical engineering projects, ◆ Study the feasibility of the engineering project effectively ◆ Capable to ascertain the objectives and relevant information of the engineering project including its objectives, its relationship with the organizational goal and other works, quality standards, liabilities, classification of stages and its life cycle, etc. ◆ Formulate development plans for the engineering project effectively ◆ Capable to formulate management plans for the engineering project including: <ul style="list-style-type: none"> • Selection of the best development plan • Confirmation of stakeholders • Interfaces with other engineering plans of the organization • Information management • Monitoring management 	

	<ul style="list-style-type: none"> ◆ Capable to ascertain the arrangement of management, monitoring and contingency organization for the engineering project ◆ Select check points and ascertain organizational and technical interfaces ◆ Coordinate and integrate the execution of the engineering project effectively ◆ Monitor and react effectively including the study of the need for making changes to the works according to procedures ◆ Implement review and continuous improvement plans for the engineering project effectively
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <ul style="list-style-type: none"> (i) Capable to formulate development plans for railway electrical and mechanical engineering projects effectively; (ii) Capable to formulate management plans for engineering projects effectively; and (iii) Capable to coordinate, monitor and integrate the execution and development of engineering projects effectively.
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses basic engineering management competency.</p>