

1. Title	Analyze operation information and records of railway signal and control system equipment to clear the root causes of faults
2. Code	EMRAOR408A
3. Range	Collect and select data, information and records related to railway signal and control system faults to help find the root causes of faults of the system equipment.
4. Level	4
5. Credits	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Application of operation information and records of railway signal and control system equipment</p> <ul style="list-style-type: none"> ◆ Understand the method and classification of operation information and records of railway signal and control system equipment ◆ Master the data selection and application techniques <p>6.2 Select and analyze data and fault records in the data recording device of railway signal and control system equipment to help find and clear the root causes of faults</p> <ul style="list-style-type: none"> ◆ Select relevant fault information from individual systems of the railway signal and control system ◆ Select relevant fault information from the data recording device of the central traffic management system ◆ Analyze the data change before a fault occurs, the signs of the fault and the data after the fault occurs to help find and clear the root causes of faults ◆ Analyze abnormal data to help find the root causes of intermittent faults and hidden faults ◆ Select fault information related to railway signal and control system equipment from the equipment fault records or files according to the fault symptoms, and analyze according to the working principles so as to find and clear the root causes of faults
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to select useful information from the records of a range of data recording devices of the railway signal and control system equipment, and deduce the root causes of faults; and</p> <p>(ii) Capable to deduce effectively the causes of an intermittent fault from the range of data.</p>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses knowledge of operation principles of railway signal and control system.