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| 1. Title | Install railway signal interlock system |
| 2. Code | EMRAIN407A |
| 3. Range | Install interlock system for the railway signal and control system, including trackside equipment, interlock system and chain system devices, at railway premises, railway traffic control rooms and signal switch rooms. |
| 4. Level | 4 |
| 5. Credits | 6 |
| 6. Competency | <p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Structure and working principles of the railway signal and control system</p> <ul style="list-style-type: none"> ◆ Understand the structure and working principles of the railway signal and control system ◆ Understand the structure and working principles of the central interlock units, including: <ul style="list-style-type: none"> • PLC units • Electronic circuit units ◆ Understand the structure and working principles of the trackside functional units of the railway signal and control system, including: <ul style="list-style-type: none"> • Trackside units • Interface devices • Signal and information transmission equipment <p>6.2 Installation Methods and procedures of railway signal interlock system devices</p> <ul style="list-style-type: none"> ◆ Able to read the installation guidelines and circuit diagrams and select useful information ◆ Install and test the central interlock units of the railway signal interlock system according to the installation guidelines and diagrams ◆ Install and test the trackside functional units of the railway signal interlock system according to the installation guidelines and diagrams ◆ Use installation and checking instruments and tools for general electrical and electronic equipment efficiently <p>6.3 Professionalism in installing railway signal interlock system devices</p> <ul style="list-style-type: none"> ◆ Install railway signal interlock system devices according to the standards and requirements for work safety, health, environmental protection and quality management of railway works ◆ Understand the safety guidelines as required by the law and codes of practice in installing railway signal interlock system devices |

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| 7. Assessment Criteria | The integrated outcome requirement of this unit of competency is: (i) Capable to install the interlock system devices of railway signal and control system safely and efficiently according to installation requirements, and perform testing effectively so as to ensure that the entire signal system operates properly. |
| 8. Remarks | The credit value of this unit of competency is set on the presumption that the person already possesses knowledge of electronics and communication. |