



Australian Government

TLIK0002 Managing autonomous rail traffic operations by network control

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the TLI Transport and Logistics Training Package.

Application

This unit involves the skills and knowledge required to manage autonomous rail traffic operation by network control.

It includes validating rail vehicle for autonomous operation, setting up rail traffic system for autonomous mission, ending autonomous system journey and monitoring and reporting autonomous rail traffic operations.

People achieving competence in this unit will need to fulfil the applicable state/territory legislated rail safety requirements and to comply with relevant codes of practice and/or guidelines.

Pre-requisite Unit

Not applicable.

Competency Field

K - Technology

Unit Sector

Rail Sector.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Verify rail traffic for autonomous operation

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1 Autonomous rail traffic and train data is identified and registered

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| | 1.2 | Rail traffic position is verified |
| | 1.3 | Rail traffic mission is validated from schedule or day of operation plan |
| 2 | Set up rail traffic system for autonomous mission | 2.1 Mission hazards are identified in accordance with safety management system |
| | 2.2 | Safety critical communication is undertaken with relevant person |
| | 2.3 | Applications for autonomous activities of different infotechnology equipment and systems are interpreted |
| | 2.4 | Equipment is set up for autonomous operation in accordance with workplace procedures and manufacturer specifications |
| | 2.5 | Autonomous rail traffic data is validated in accordance with workplace protocols |
| | 2.6 | Autonomous systems are identified as working and active on the rail traffic |
| | 2.7 | Factors that impact safe rail traffic systems are continuously monitored |
| | 2.8 | Routine faults in operating systems and software applications are identified and rectified in accordance with workplace procedures |
| 3 | End autonomous rail traffic system mission | 3.1 Autonomous rail traffic end of mission is determined |
| | 3.2 | Safety critical communication is undertaken with relevant person |
| | 3.3 | Autonomous rail traffic system is disengaged |
| | 3.4 | Autonomous rail traffic data is validated in accordance with workplace protocols |
| | 3.5 | Routine faults in operating systems, software applications and operator errors are identified and rectified in accordance with workplace procedures |
| 4 | Monitor and report autonomous rail traffic operations | 4.1 Rail traffic operation is communicated in accordance with workplace safety critical communication protocols |

- 4.2 Effective communication is maintained with relevant personnel
- 4.3 Records are updated in accordance with workplace procedures

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Unit Mapping Information

This is a new unit. No equivalent unit.

Links

Companion Volume Implementation Guides are found in VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851>