



Australian Government

TLIF4070 Operate fire and life safety system within a tunnel

Release: 2

TLIF4070 Operate fire and life safety system within a tunnel

Modification History

Release 2. This is the second release of this unit of competency in the TLI Transport and Logistics Training Package:

- Minor word change in Performance Evidence
- Minor statement changes in Assessment Conditions.

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 operate fire and life safety systems within a tunnel and to activate safety system procedures.

It includes the application of workplace safe work instructions and procedures and regulatory requirements in operating and maintaining fire and life safety systems. It also includes developing an understanding of the risk management procedures for operating fire and life safety systems within a tunnel.

Tasks are performed individually within a control environment. The role may at times be required to work within a team environment.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

F – Safety Management

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

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| 1 Operate fire and life safety systems | 1.1 Fire and life safety systems are operated on control panels in accordance with workplace procedures, including in a degraded or contingency state |
| | 1.2 Electrical distribution systems are identified and operated in accordance with workplace procedures |
| | 1.3 Pumps and drainage systems are identified and operated in accordance with workplace procedures |
| | 1.4 Relevant information is processed to establish priorities and responses for dealing with issues or incidents |
| | 1.5 Intelligent transport systems (ITSs) in tunnels are coordinated to ensure safety of all traffic |
| 2 Maintain fire and life safety systems | 2.1 Fire and life safety systems are maintained in accordance with workplace procedures |
| | 2.2 Actions undertaken are clearly documented and retained |
| 3 Activate fire and life safety system procedures | 3.1 Ventilation and/or deluge systems are operated in accordance with workplace procedures |
| | 3.2 Lighting levels are maintained in accordance with workplace procedures |
| | 3.3 Liaison is initiated and maintained with organisations/individuals affected by changed operational activities |
| | 3.4 Evacuation of tunnel is conducted in accordance with workplace procedures |
| | 3.5 Systems are monitored and reactivated 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 unit replaces and is equivalent to TLIF4070A Operate fire and life safety system within a tunnel.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851>

Assessment Requirements for TLIF4070 Operate fire and life safety system within a tunnel

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least one occasion and include:

- activating tunnel fire and life safety system as it applies to the workplace and within the job role
- applying fatigue management knowledge and techniques
- briefing emergency services accurately about tunnel layout and available equipment and its use
- communicating effectively and calmly with others when operating within a road tunnel control room environment
- completing documentation/updating traffic management systems related to operating fire and life safety systems within a tunnel
- evacuating a tunnel
- identifying all relevant liaisons that apply when required to activate tunnel fire and life safety systems
- identifying and correctly using equipment in accordance with environmental protection regulations and guidelines
- identifying maintenance requirements/scheduling of fire and life safety systems in accordance with workplace procedures
- identifying tunnel layout
- implementing contingency plans
- modifying activities depending on operational contingencies, risk situations and environments
- operating and adapting to differences in equipment availability in accordance with operating procedures
- operating electronic communications equipment to required protocol
- reading and interpreting relevant instructions, procedures and information
- reporting and/or rectifying identified problems and faults in accordance with regulatory requirements and workplace procedures.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and include knowledge of:

- electrical distribution system as it applies to the workplace and job role
- emergency procedures
- emergency services liaison
- emergency vehicle access to tunnel
- fire and life safety systems as they apply in the workplace
- purpose and operations of fire and safety systems used in a tunnel, including electrical distribution system, pumps and drainage system, and ventilation system
- site layout/tunnel familiarisation
- ventilation and deluge systems as they apply to relevant environmental procedures and guidelines, the workplace and job role
- workplace procedures and guidelines for operating fire and life safety systems within a road tunnel and relevant work health and safety (WHS)/occupational health and safety (OHS) procedures and guidelines.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

Online assessment is not suitable for final assessment of this unit of competency.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include:

- a range of relevant exercises, case studies and/or simulations
- relevant materials, tools and equipment used in industry
- applicable documentation including workplace procedures, regulations, codes of practice and operation manuals.

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