



Australian Government

Assessment Requirements for TLIB3124

Apply awareness of steam locomotive fundamentals

Release: 2

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Modification History

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

- Minor statement changes in Knowledge 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.

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:

- identifying equipment on a steam locomotive including:
 - air/vacuum systems and operation
 - auxiliary equipment and its operation
 - boiler construction and components
 - control systems and operation
 - electrical systems and operation
 - lubricating systems and operation
 - mechanical systems and operation
- identifying job hazards and taking required actions to minimise, control or eliminate identified hazards.

Knowledge 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 and include knowledge of:

- fundamentals of:
 - boiler and/or pressure vessel construction configuration
 - track layout
 - locomotive boiler code of practice
 - railway terminology
- relevant work health and safety (WHS)/occupational health and safety (OHS), and

- environmental procedures and regulations
- steam locomotive fundamentals including:
 - auxiliary equipment
 - cooling and lubricating systems
 - electrical components and equipment, as required
 - lubricating systems
 - mechanical equipment, as required
 - primary boiler fittings
 - safety system equipment and components
 - secondary boiler fittings
 - steam locomotive control systems
 - types of air/vacuum equipment
- workplace procedures.

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 rail workplace conditions.

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 access to:

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

Links

Companion Volume Implementation Guides are found in VETNet -

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