



**Australian Government**

# **Assessment Requirements for TLIC3073 Fire a steam locomotive**

**Release: 1**

# Assessment Requirements for TLIC3073 Fire a steam locomotive

## Modification History

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:

- applying relevant safeworking system and workplace procedures
- assisting with pre-operational activities in accordance with operational procedures
- checking and replenishing fluids and carrying out lubrication requirements on a steam locomotive
- communicating effectively with others when inspecting and preparing a steam locomotive
- completing relevant documentation
- conducting a visual inspection of a steam locomotive and associated equipment
- documenting outcomes of visually inspecting a steam locomotive
- firing a steam locomotive
- identifying job hazards and taking required action to minimise, control or eliminate identified hazards
- inspecting and operating a steam locomotive boiler in accordance with relevant codes of practice and operational procedures
- interpreting and following instructions and prioritising work
- maintaining steam and water levels in accordance with operating requirements
- preparing a steam locomotive prior to service
- reading, interpreting and following relevant instructions, procedures, information and signs.

## 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:

- braking and safety system procedures for a steam locomotive
- emergency procedures
- external features of a steam locomotive that must be checked during a pre-operational visual inspection
- functions of auxiliary systems on a motive power unit and related checks for correct operation
- in-cab pre-operational checks for a steam locomotive
- lubrication requirements for a motive power unit
- operating controls to start, accelerate, decelerate and stop a steam locomotive
- principles, purpose and location of controls, monitoring devices, braking, power source and traction systems
- procedures for:
  - checking fuel and fluid levels and carrying out lubrication processes on a steam locomotive
  - identifying equipment defects and assessing appropriate action
  - managing and controlling hazardous situations when preparing and starting up a steam locomotive
  - starting and operating auxiliary systems on a steam locomotive
  - visually inspecting a steam locomotive
- relevant safety, work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations
- requirements for completing relevant documentation when inspecting and preparing a steam locomotive
- steam locomotive boiler code of practice
- start-up procedures for a steam locomotive
- workplace procedures and operating requirements.

## Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the *Standards for Registered Training Organisations* current at the time of assessment.

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Practical assessment must occur in an appropriate range of situations in the rail corridor workplace.

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 include:

- a range of relevant exercises, case studies and/or simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment currently used in industry
- applicable documentation including workplace procedures, regulations, rail industry standards, 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>