



Australian Government

Assessment Requirements for TLIB4077

Inspect and prepare a heritage steam locomotive

Release: 1

Assessment Requirements for TLIB4077 Inspect and prepare a heritage 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:

- adapting to differences in heritage steam locomotives and associated equipment and procedures
- checking and replenishing fluids and carrying out lubrication requirements on a heritage steam locomotive
- conducting an inspection and pre-operational check of a heritage steam locomotive and associated equipment
- identifying and assessing heritage steam locomotive defects and deficiencies and taking appropriate action to report, isolate, repair or replace identified defective equipment in accordance with workplace procedures
- identifying job hazards and taking required action to minimise, control or eliminate identified hazards
- implementing contingency plans
- interpreting and following instructions and prioritising work
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring and anticipating operational problems and hazards and taking appropriate action
- operating electronic communications equipment to required protocol
- positioning a heritage steam locomotive in readiness for service
- preparing a heritage steam locomotive prior to service
- reading and interpreting relevant instructions, procedures and 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, performance criteria and include knowledge of:

- applicable state/territory legislated rail safety requirements, relevant codes of practice and/or guidelines
- braking and safety system procedures for a heritage steam locomotive
- cleaning requirements for a heritage steam locomotive
- communications equipment checks and operating procedures
- emergency procedures
- external features of a heritage steam locomotive that must be checked during a pre-operational visual inspection
- fuel capacity and range (where applicable)
- functions of all supervisory indicators and controls and related checks for correct operation
- functions of auxiliary systems on a heritage steam locomotive and related checks for correct operation
- in-cab pre-operational checks for a heritage steam locomotive
- inspection procedures for a heritage steam locomotive
- local procedures and operating requirements
- locomotive controls, instruments and indicators and their purpose, location and use
- lubrication requirements for a heritage steam locomotive
- operating controls to start, accelerate, decelerate and stop a heritage steam locomotive
- operating procedures for a heritage steam locomotive
- principles, purpose and location of controls, monitoring devices, braking, power source and traction systems
- procedures for adjusting controls to optimise the operation of a heritage steam locomotive
- procedures for checking fuel and fluid levels and carrying out lubrication processes on a heritage steam locomotive
- procedures for identifying equipment defects, assessing and reporting for appropriate action
- procedures for lighting fire and raising steam on a heritage steam locomotive
- procedures for managing and controlling hazardous situations when preparing and firing up a heritage steam locomotive
- procedures for minor maintenance including cleaning, brake shoe/pad replacement and sand box requirements
- procedures for operating communications equipment in accordance with required protocol
- procedures for starting and operating auxiliary systems on a heritage 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 heritage steam locomotive
- typical defects that can occur on a heritage steam locomotive and related action that should be taken.

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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Assessment must occur in workplace operational situations or, where this is not available, in simulated workplace operational situations that replicate rail corridor 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 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, 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>