Assessment Requirements for TLIC3030
Operate and monitor a heritage steam locomotive
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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.

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 processes on a heritage steam locomotive
- communicating effectively with others
- completing relevant documentation
- identifying job hazards and taking required action to minimise, control or eliminate identified hazards
- implementing contingency plans
- interpreting and following operational instructions and prioritising work
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring heritage steam locomotive performance
- reading and interpreting relevant instructions, procedures, information and signs relevant
- recognising problems that may arise when operating and monitoring a heritage steam locomotive and taking appropriate action
- working collaboratively with others as part of a train crew.

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:
• applicable state/territory legislated rail safety requirements, relevant codes of practice and/or guidelines and local rail regulations
• braking and safety system procedures
• emergency procedures
• heritage steam locomotive controls, instruments and indicators and their purpose, location and use
• operating controls to start, accelerate, decelerate and stop a heritage steam locomotive
• procedures for adjusting controls to maximise efficient and safe running
• procedures for identifying equipment defects and assessing them for appropriate action
• procedures for managing safety incidents and hazardous situations that may arise when operating and monitoring heritage steam locomotive performance
• procedures for minor maintenance, cleaning, lubricating and servicing a heritage steam locomotive
• procedures for operating and monitoring the performance of ancillary equipment on a heritage steam locomotive
• procedures for operating and monitoring a heritage steam locomotive
• rail resource management principles as they apply to operating and monitoring heritage steam locomotive performance
• relevant rail danger zones
• relevant safety, work health and safety (WHS)/occupational health and safety (OHS), and environmental procedures and regulations
• relevant workplace procedures and operating requirements
• requirements for communicating and working collaboratively with train crew, Network Control Officer and other relevant personnel
• requirements for completing relevant documentation when operating and monitoring steam locomotive performance
• speed and load limits for a heritage steam locomotive
• steam engine operation principles, monitoring devices, braking equipment, ancillary systems and signalling systems
• track and bridge limitations, speed limitations, gauge limitations, curves and gradients, curfews, location of signals and crossings, emergency crossovers and operation of a turntable
• train schedules, heritage steam locomotive allocation and operational instructions
• typical faults that can occur on a heritage steam locomotive and related action that should be taken when repairing, isolating, replacing, reporting and recording faulty equipment.

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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requirements in the *Standards for Registered Training Organisations* current at the time of assessment.

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 -