



Australian Government

Assessment Requirements for TLIS3011 Test rail using nondestructive testing equipment

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 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 three separate occasions and include:

- adapting to differences in equipment in accordance with operating procedures
- applying relevant workplace procedures
- checking and maintaining nondestructive testing equipment
- checking turnouts for observable faults
- conducting visual examinations
- identifying job hazards and taking required actions to minimise, control or eliminate identified hazards
- identifying types of rail defects in switches and crossings
- implementing contingency plans
- interpreting and following relevant operational instructions and prioritising work
- locating, measuring and assessing defect size for all defect types
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring work activities in terms of planned schedule
- reading and interpreting relevant technical data, drawings, instructions and manuals
- reporting and/or rectifying identified problems, test results, faults or malfunctions, in accordance with workplace procedures
- working systematically with required attention to detail without injury to self or others, or damage to goods or equipment.

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:

- hazards that may exist when testing turnouts and rail using nondestructive testing equipment,

and ways of controlling the risks involved

- problems that may occur when testing turnouts and rail using nondestructive testing equipment, and actions that can be taken to report or resolve these problems
- relevant rail danger zones
- relevant recording and documentation procedures
- relevant rail safety, work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations
- relevant workplace technical manuals and instructions required to test switches, crossings and other special components in turnouts using ultrasonic and other nondestructive testing equipment
- special inspection requirements for alloy hardened crossings
- types of rail defects found in turnouts and rail defect classification
- ultrasonic testing requirements for turnouts and special trackwork
- workplace procedures for testing turnouts and rail using nondestructive testing equipment.

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 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 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, 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>