



Australian Government

**Assessment Requirements for TLIX0024
Install, modify and commission fuel storage
and dispensing systems**

Release: 1

Assessment Requirements for TLIX0024 Install, modify and commission fuel storage and dispensing systems

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, performance criteria and range of conditions on at least two separate occasions and include:

- planning and coordinating work on a site that has variable hazardous areas
- managing work involving multiple specialist contractors
- identifying and protecting any existing site services
- communicating with relevant person/s to obtain and confirm work requirements
- reviewing and applying safe work method statements (SWMS) for all work
- working with relevant engineering consultants to develop/confirm proposed excavation plan and required structural support
- following tank manufacturer's procedures/requirements for tank receipt and installation
- following fuel piping manufacturer's procedures/requirements for pipe receipt and installation
- following fuel system electrical conduit manufacturer's procedures/requirements for receipt, installation and backfilling
- engaging independent third-party specialist contractor for equipment integrity test (EIT) works
- following fuel dispensing and pumping equipment manufacturer's procedures/requirements for receipt and installation
- conducting trials and tests of:
 - the fuel storage and delivery system
 - the fuel delivery system into the storage tanks
 - automatic tank gauge (ATG)
 - leak detection system
 - stage 1 and 2 vapour recovery systems, as required, for petrol fuel systems
 - EIT of fuel system required pre-bury and after backfilling and any paving works have been completed
 - electrical continuity, earthing and equipotential bonding
 - cathodic protection for steel tanks
- coordinating work activities with others
- monitoring work and adapting as required

- completing workplace documentation and reporting.

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 range of conditions and include knowledge of:

- organisational communication protocols
- relevant permit types
- classification of hazardous zones
- hazardous area electrical work
- safety requirements and emergency procedures
- site-specific hazardous areas/zones and determining minimum distances
- requirements for:
 - working in different weather conditions
 - working in confined spaces
 - working at heights
 - traffic management
 - lock-out/tag-out procedures
 - isolations
 - site signage
 - atmosphere testing
 - spill management
 - 'in-date' inspection tags
 - dealing with local emergency services
 - tool and equipment checks
 - approved contractor certification/licencing
- process for determining excavation depth for different systems
- engineering input required for excavations greater than 1.0 m (tank installation)
- manufacturer's current approved contractor requirements for the installation of:
 - fuel tanks
 - fuel piping
 - fuel system electrical conduit system
 - fuel system dispensing and pumping equipment
 - cathodic protection and leak monitoring equipment
 - diesel exhaust fluid (DEF) storage and dispensing systems
- purpose of EIT before fuel system components are buried, after all backfilling and paving works are completed but before commissioning the fuel system and the need for integrity monitoring while backfilling and paving proceeds
- job safety analysis (JSA), safe work procedures (SWP) and SWMS
- implications of changes to site conditions and work activity during fuel delivery on a site

- spill management
- different types of fuels and their associated hazards
- different materials and equipment required for the work and their associated hazards in a fuel storage and dispensing environment
- work health and safety (WHS)/occupational health and safety (OHS) requirements for potential lead contaminated materials and equipment
- compliance requirements for main components of fuel systems, including:
 - tank types
 - gauges
 - pumps
 - fuel dispensers (to customers)
 - pipes
 - filters
 - vapour recovery systems; stage 1 and stage 2, as applicable
 - primary and secondary containment systems
 - surface water management
 - bunding
 - product labelling
 - safety signage
- safe techniques for concrete paving cutting, breaking and removal over fuel tanks/pipes and reinstatement to accommodate maximum axle load vehicles
- fuel testing and sampling techniques
- spill management
- tank inspection techniques
- solid and liquid waste certificates
- Environment Protection Authority (EPA) reporting requirements
- local Development Approval (DA) reporting
- Australian Standards related to certification and reporting for new and modified fuel systems
- solid and liquid waste certificates
- underground petroleum storage systems (UPSS) ‘as-constructed’ documentation requirements
- certification of reporting to local EPA regulations
- certification of reporting to local DA conditions
- jurisdictional obligations of designer and installer plus documentation required
- jurisdictional EPA licenses for removal, transport and disposal of fill and/or potentially contaminated fill from site
- jurisdictional Service Station Licensing requirements.

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 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:

- relevant and appropriate materials, tools, equipment and personal protective equipment (PPE) currently used in industry
- applicable documentation including legislation, regulations, codes of practice, workplace procedures, sample work permits 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>