



Australian Government

TLIE0008 Calculate mass, area and quantify dimensions

Release: 1

TLIE0008 Calculate mass, area and quantify dimensions

Modification History

Release 1. This is the first release of this unit of competency in the TLI Transport and Logistics Training Package.

Application

This unit involves the skills and knowledge required to calculate mass, area and quantify dimensions.

It includes calculating loads to be transported or placed in storage, calculating load limits of transport and/or storage systems, and organising the loading in accordance with relevant legislation and workplace requirements.

Work is performed under some supervision generally within a team environment.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

E – Communication and Calculation.

Unit Sector

Not applicable.

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1 Calculate loads for transport or storage

1.1 Order forms and work orders are read, and requirements are noted

1.2 Shape, balance characteristics, dimensions and mass of load/s are identified

1.3 Weights and volumes are totalled to calculate load

requirements of transport or storage system

2 Calculate load limits of transport and/or storage

- 2.1** Allowable load limits for storage and/or transport systems are identified in accordance with legislative requirements and workplace procedures
- 2.2** Capacity of transport and storage systems in terms of mass, area and volume is calculated

3 Organise loads

- 3.1** Loads are restricted to allowable range
- 3.2** Loads are spread to ensure safe weighting on pallets, trucks, platforms or other storage or transport systems
- 3.3** Appropriate workplace documentation is completed

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions can be found in the TLI Transport and Logistics Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to TLIE3002 Estimate/calculate mass, area and quantify dimensions.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851>

Assessment Requirements for TLIE0008 Calculate mass, area and quantify dimensions

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria on at least one occasion and include:

- applying relevant legislation and workplace procedures
- calculating volume and safely moving liquids
- identifying, selecting and using relevant calculation equipment
- interpreting and following operational instructions and prioritising work
- performing mathematical operations required when calculating mass, area and volumes of loads and transport/storage facilities
- reading and interpreting relevant instructions, procedures and information
- 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 the requirements of the elements and performance criteria and include knowledge of:

- documentation requirements for the workplace activities concerned
- focus of operation of work systems, equipment, management and site operating systems for transporting and/or storing goods and stock
- limitations of loads for storage and/or transport systems
- national and international codes and regulations relevant to workplace activities
- problems that may occur when estimating and/or calculating mass, area and volumes of loads and transport/storage facilities, and appropriate actions that can be taken to resolve these problems
- relevant work health and safety (WHS)/occupational health and safety (OHS) and environmental protection procedures and guidelines
- requirements for safely moving liquids
- workplace procedures and policies for estimating and/or calculating mass, area and volumes of loads, and transport and storage facilities, including the quantification of dimensions.

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:

- 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 legislation, regulations, codes of practice, workplace procedures and operation manuals.

Links

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