



Australian Government

TLIE3002 Estimate/calculate mass, area and quantify dimensions

Release: 1

TLIE3002 Estimate/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 estimate and calculate mass, area and quantify dimensions of loads in accordance with workplace requirements and relevant regulations, as part of work functions within the transport and logistics industry.

It includes estimating loads to be transported or placed in storage, estimating load limits of transport and/or storage systems, and organising a load.

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.

1 Estimate loads for transport or storage

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

- 1.1 Order forms/work orders are read and requirements are noted
- 1.2 Shape, balance characteristics, dimensions and mass of load/s are identified

- 1.3 Area/volume required for storage is estimated
- 1.4 Weights and volumes are totalled to calculate load requirements of transport or storage system
- 2 Estimate load limits of transport and/or storage**
 - 2.1 Allowable load limits for storage and/or transport systems are identified in accordance with workplace procedures
 - 2.2 Capacity of transport and storage systems in terms of mass, area and volume is calculated
- 3 Organise load**
 - 3.1 Load/s is restricted to allowable range
 - 3.2 Load/s is 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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to TLIE3002A 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 TLIE3002 Estimate/calculate mass, area and quantify dimensions

Modification History

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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:

- applying relevant legislation and workplace procedures
- communicating effectively with others
- identifying, selecting and using relevant calculators, computing and office equipment
- interpreting and following operational instructions and prioritising work
- performing basic mathematical operations required when estimating and/or calculating mass, area and volumes of loads and transport/storage facilities including addition, subtraction, multiplication and division
- reading and interpreting relevant instructions, procedures, information and labels
- working collaboratively with others
- 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:

- Australian and international codes and regulations relevant to workplace activities
- 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
- problems that may occur when estimating and/or calculating mass, area and volumes of loads and transport/storage facilities, and appropriate action 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
- 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

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 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 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

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