

Module 2: Overview of loading regulations



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Learning objectives

At the end of 'Module 2: Overview of loading regulations' you will be able to:

1

Summarise the key regulations relevant to loading and unloading

2

Explain the purpose of the Load Restraint Guide and LUEZ Guidelines



3

Explain the different Australian and international Dangerous Goods Codes

4

Describe the key obligations for anyone undertaking loading or unloading activities

Regulations, guides and codes



Goods and cargo are loaded safely to the vehicle



Secured and protected for transportation

Provide further guidance

- Dimension and weight limits for the load and vehicle
- Load safety requirements
- Special requirements for oversize or overmass loads and dangerous goods
- The responsibilities of parties in the supply chain for safe load restraint

Following the regulations, guides and codes will help to ensure that:

You are safe



Those around you are safe



The load is safe



Overview of key regulations

Click each regulation to find out more.

**Work Health and
Safety Act 2011**



**Heavy Vehicle
National Law**



**Heavy Vehicle (Mass,
Dimension & Loading)
National Regulation**



**Road Transport
Legislation – Dangerous
Goods Regulations 2006**



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Overview of key regulations

Click each regulation to find out more.

Work Health and Safety Act 2011



Heavy Vehicle National Law



Heavy Vehicle (Mass, Dimension & Loading) National Regulation



Road Transport Legislation – Dangerous Goods Regulations 2006



Employers have a responsibility to provide a **safe and healthy workplace** for workers

Requires employers to:

- update and maintain the knowledge of work health and safety matters
- understand the work being carried out by workers and the associated risks
- provide workers with appropriate resources and processes to eliminate or minimise health and safety risks
- ensure workers receive and can respond promptly to information regarding incidents, hazards and risks
- ensure workers have and use processes to comply with the duties under the Act

Support a systematic approach to **reducing the risk of load** related incidents



[Work Health and Safety Act 2011](#)



Overview of key regulations

Click each regulation to find out more.

Work Health and
Safety Act 2011



Heavy Vehicle
National Law



Heavy Vehicle (Mass,
Dimension & Loading)
National Regulation



Road Transport
Legislation – Dangerous
Goods Regulations 2006



Provides **one set of laws** for heavy vehicles

Regulated by the **National Heavy Vehicle Regulator**

Holds all parties **accountable** for tasks where their **actions, inactions** or **demands** put driver's lives and other lives at risk

Targets **fatigue, speed, load restraint** and **mass and dimension**

 [Mass and Loading
Regulations 2006](#)

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Overview of key regulations

Click each regulation to find out more.

Work Health and Safety Act 2011



Heavy Vehicle National Law



Heavy Vehicle (Mass, Dimension & Loading) National Regulation



Road Transport Legislation – Dangerous Goods Regulations 2006



Guidance on **mass** and **dimension** and **load restraint** requirements

Mass and dimension:

- Standards for the construction, performance and size limits for heavy vehicles
- Mass and dimension limits for heavy vehicles
- Standards for oversize or overmass vehicles and combinations that are exempted from normal dimension or mass limits

Load restraint:

- A load must not be placed in a way that makes the vehicle unstable or unsafe
- A load must be secured so that it is unlikely to fall or be dislodged from the vehicle
- An appropriate method must be used to restrain the load on a vehicle
- Loads must meet the standards recommended in the Load Restraint Guide



[Heavy Vehicle \(Mass, Dimension & Loading\) National Regulation](#)

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Overview of key regulations

Click each regulation to find out more.

Work Health and
Safety Act 2011



Heavy Vehicle
National Law



Heavy Vehicle (Mass,
Dimension & Loading)
National Regulation



Road Transport
Legislation – Dangerous
Goods Regulations 2006



Purpose:

- Reduce the risks of personal injury, property damage and environmental harm caused by the transport of **dangerous goods by road**
- Outline the requirement to follow the procedures of the **Australian Dangerous Goods Code**



[Dangerous Goods
Regulations 2006](#)



What are the mass limits?

Mass limits are provided for:

Single vehicle



Manufacturer will set the maximum mass limit

- Gross vehicle mass (GVM)
- Maximum allowable total weight of a road vehicle or trailer when loaded
- Weight of vehicle + fuel + passengers + cargo

Combination vehicle



Manufacturer will set the gross combination mass (GCM)

- Based on the configuration of the vehicle
- Maximum allowable total weight of a road vehicle or trailer when loaded
- Weight of vehicle + all trailers + fuel + passengers + cargo



Regulations also provide individual mass limits or maximum load capacity, for tyres, wheels, axles and axle groups.



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What are the size and dimension limits?

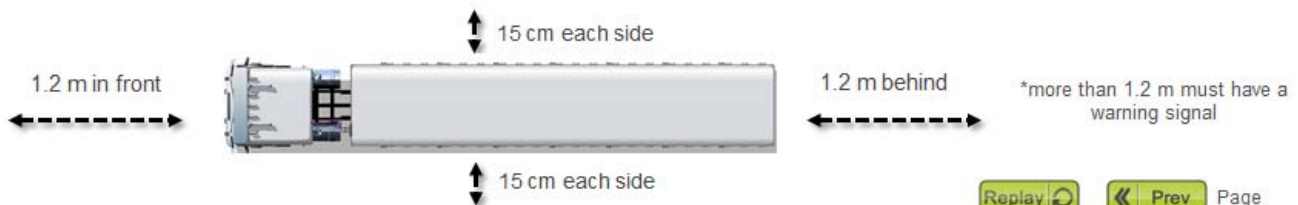
A vehicle/combination and its load must not exceed the maximum size limits.



Maximum **length** of the vehicle varies based on the **type** of vehicle:



Requirements for the **projection** of loads to the **front, side and rear** of the vehicle:



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Overview of key guides – Load Restraint Guide

Loads **must** meet the standards and requirements outlined in the **Load Restraint Guide**.

WHO?

- Drivers
- Owners
- Operators
- Freight consignors
- Vehicle manufacturers
- Equipment manufacturers
- Suppliers

WHAT?

The basic safety principles that should be followed to ensure the safe transport of loads

- Section A: General principles of load restraint
- Section B: Arranging loads on vehicles
- Section C: Restraining loads on vehicles
- Section D: Driving laden vehicles
- Section E: Loads
- Section F: Calculating restraint requirements
- Section G: Vehicle structures
- Section H: Load restraint equipment
- Section I: How to certify a load restraint system

YOU SHOULD?

- Obtain a copy of the guide
- Understand and apply the requirements of the guide
- Ensure the load restraint system you use meets the performance standards specified in section F1



[Load Restraint Guide](#)



[ALC Load Restraint Guides](#)

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Overview of key guides – LUEZ Guidelines

Issue of the safety of those around mobile plant equipment (such as forklifts) during loading and unloading operations



Overview of key guides – LUEZ Guidelines

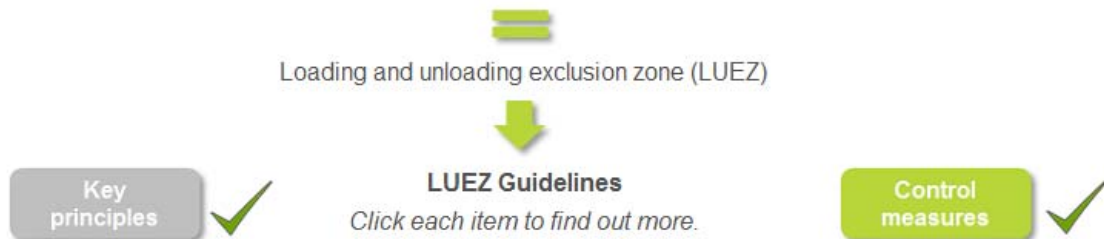
Issue of the safety of those around mobile plant equipment (such as forklifts) during loading and unloading operations.



- Forklifts (or other equipment used for loading or unloading) and drivers, and other pedestrians, should be **segregated**
- Authority for the area in which the loading or unloading activity is occurring should reside with the **forklift operator**
- If the driver ceases to be in the **direct line of sight** of the operator at any stage during the loading or unloading activity, then the activity should **immediately stop** and not resume again until a direct line of sight is re-established between the operator and the driver

Overview of key guides – LUEZ Guidelines

Issue of the safety of those around mobile plant equipment (such as forklifts) during loading and unloading operations.



- Designated **pedestrian exclusion zones** for the sole use of forklift or other loading equipment
- Designated **driver safety zones** so that the driver is kept away from the line of fire and can be kept under surveillance by the forklift operator at all times
- Clear and effective **systems of communication** between the operator and the driver
- Effective methods of **providing loading in progress warnings** to other operators, drivers, and pedestrians

 [LUEZ Guidelines](#)

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Overview of key dangerous goods codes

There are also a number of codes that provide guidance on the transport of dangerous goods.
Click each code to find out more.

Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code)



Australian Code for the Transport of Explosives by Road and Rail (AE Code)



International Maritime Dangerous Goods (IMDG) Code



International Air Transport Association Dangerous Goods Regulations (IATA DGR)



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Details the rules and recommendations covering the:

- **definition, classification, packaging, marking and labelling** of dangerous goods
- **consigning** of dangerous goods for transport, including loading, stowage, load retention and segregation
- provision of transport **documentation** describing the dangerous goods
- **unloading**, receipt and transfer of dangerous goods
- **transport** of dangerous goods, including the use of vehicles, containers, equipment and safety equipment.



[ADG Code](#)

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International Maritime Dangerous Goods (IMDG) Code



International Air Transport Association Dangerous Goods Regulations (IATA DGR)



- Provides a **uniform basis** for Commonwealth, state and territory legislation
- Complements and is consistent with the **ADG Code**
- Sets out the:
 - **classification** of explosives and risk categories for loads
 - **marking** requirements for packages, vehicles and containers
 - **documentation** that must be carried on vehicles transporting explosives
 - **packaging** and **design** requirements
 - **stowage** rules, such as segregation and load limits
 - **loading, unloading** and **transport** requirements for explosives.



[AE Code](#)

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International Maritime Dangerous Goods (IMDG) Code



International Air Transport Association Dangerous Goods Regulations (IATA DGR)



- Developed as a **uniform international code** for the transport of dangerous goods by **sea**
- Sets out:
 - the **classification** of dangerous goods
 - detailed **recommendations** for individual dangerous substances, materials and articles
 - a number of recommendations for good operational practice such as advice on **terminology, packing, labelling, stowage, segregation, handling, and emergency response** action.



[IMDG Code](#)

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International Maritime Dangerous Goods (IMDG) Code



International Air Transport Association Dangerous Goods Regulations (IATA DGR)



- Ensure that **shippers, forwarders, and carriers** have the tools and resources to ship dangerous goods safely by air
- Define standards for the:
 - **classification** of dangerous goods
 - what dangerous goods **can** and **cannot** be shipped by air
 - recommendations for the **marking, labelling, declaring, packing, handling and loading** of dangerous goods
 - **emergency** procedures
 - **documentation** requirements
 - **training** requirements of those parties involved in the air transport of dangerous goods.

 [IATA DGR](#)

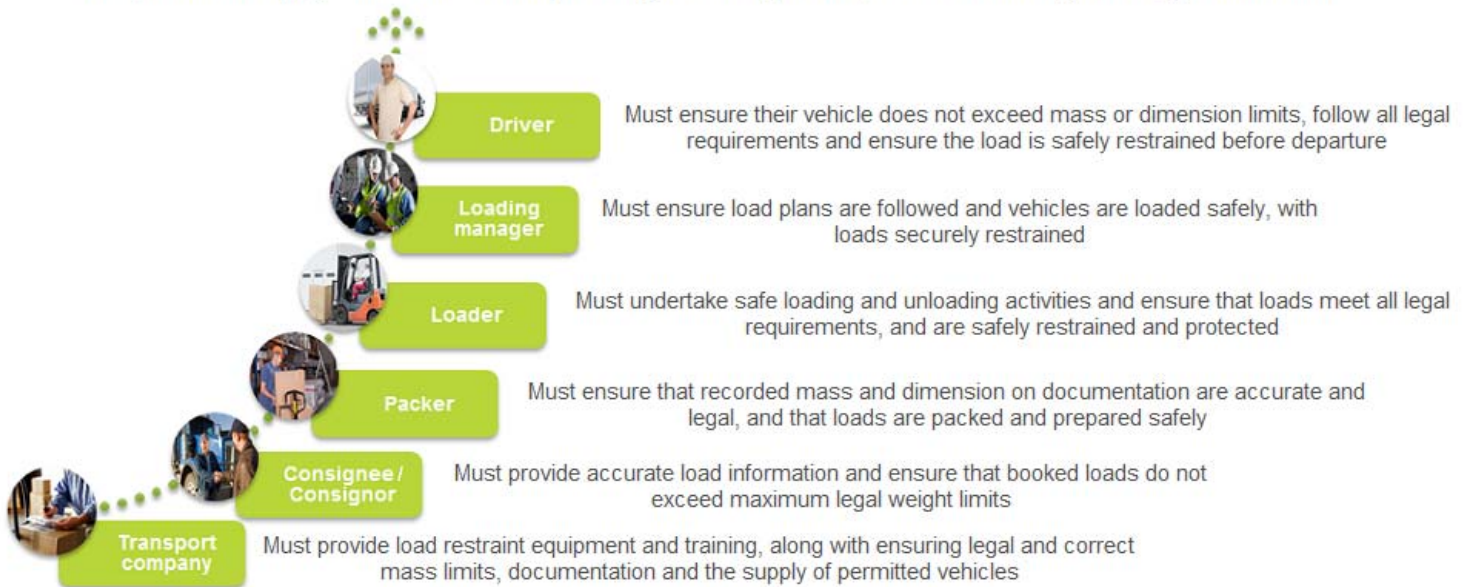
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Who must follow the regulations, guides and codes?

Everyone in the supply chain shares the responsibility for meeting the requirements of the regulations, guides and codes.



State-specific requirements

Commonwealth regulations and each state or territory regulation **may differ slightly**.
Click your state to find out more about the state government department responsible for Road Transport.



State-specific requirements

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Click your state to find out more about the state government department responsible for Road Transport.



QLD



Department of Transport and Main Roads



[Department of Transport and Main Roads](#)



State-specific requirements

Commonwealth regulations and each state or territory regulation **may differ slightly**.
Click your state to find out more about the state government department responsible for Road Transport.



NSW



Roads and Maritime Services Department



[Roads and Maritime Services Department](#)



State-specific requirements

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Click your state to find out more about the state government department responsible for Road Transport.



ACT



Department of Infrastructure and Transport



[Department of Infrastructure and Transport](#)

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VIC



VicRoads



[VicRoads](#)



State-specific requirements

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TAS



Department of Transport



[Department of Transport](#)



State-specific requirements

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SA



Department of Planning, Transport and Infrastructure



[Department of Planning,
Transport and Infrastructure](#)



State-specific requirements

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Click your state to find out more about the state government department responsible for Road Transport.



WA



Department of Main Roads



[Department of Main Roads](#)

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Click your state to find out more about the state government department responsible for Road Transport.



NT



Department of Lands and Planning – Transport Group







[Department of Lands and Planning – Transport Group](#)



Summary

Congratulations! You have now completed Module 2: Overview of loading regulations.

You should now be able to:

-  Summarise the key regulations relevant to loading and unloading
-  Explain the purpose of the Load Restraint Guide and LUEZ Guidelines
-  Explain the different Australian and international Dangerous Goods Codes
-  Describe the key obligations for anyone undertaking loading or unloading activities



You can now return to the home page and move on to the next module which will look at preparing standard loads.

