



**SECTOR SKILLS COUNCIL FOR SCIENCE,
ENGINEERING AND MANUFACTURING
TECHNOLOGIES**

NATIONAL OCCUPATIONAL STANDARDS:

**EXPLOSIVE SUBSTANCES AND ARTICLES (ESA)
TRANSPORT (KEY ROLE 8)**

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INTRODUCTION

The standards that follow comprise those brought in from the suite of Driving Goods Vehicles standards (referenced “DGV” after the standard), and those that have been developed specifically for those activities involving the transportation of explosive substances and articles.

These explosive-specific standards do not contain a reference number after the standard title. They are closely aligned to the DGV standards.

DRIVING GOODS VEHICLES STANDARDS

The Road Haulage & Distribution Training Council developed the revised occupational standards (some of which imported here) for driving goods vehicles. They replace those approved by PSAG in August 2001, following the pilot use of those standards between September 2001 and March 2002.

These occupational standards are designed along the following principles:

- they are for drivers of Large Goods Vehicles (LGV) (although in many ways they might also be applicable to other types of goods vehicle driver);
- they are meant to be generic, in that they do not reflect requirements for any particular class of LGV, including rigid or articulated vehicles;
- they do not contain details of assessment methods; guidance on assessment will be available for qualifications containing the units; and
- they are not designed for a particular type of qualification.

Application of the units

NOTE: where the word “vehicle” has been used, this could equally refer to other forms of transport, including rail, water- and air-borne vehicles.

Transportation by rail

Most of the units describing the competences relating to preparatory work, loading and unloading of explosive loads are also relevant to rail transportation. However, there are specific requirements for the rail transportation of explosive loads, which are described by the “A” series of this key role.

The following units are also relevant to the transportation of explosive loads by rail:

8.2, 8.4, 8.5, 8.6 and 8.7

The units relevant to rail transportation are aimed at transfer shed staff, marshalling yard staff, and any others who load, unload and marshal trains. They do not describe the competences relating to driving trains.

Transportation by sea

Many of the units describing the competences relating to preparatory work, loading and unloading of explosive loads are also relevant to sea transportation. However, there are specific requirements for the sea transportation of explosive loads, which are described by the “B” series of this key role.

The following units are also relevant to the transportation of explosive loads by sea:

8.2, 8.4, 8.5, 8.6 and 8.7

The units relevant to sea transportation are aimed at staff at the dockside and in ships or boats, who load and unload explosive cargoes. They do not describe the competences relating to piloting ships or boats.

Transportation by air

As for rail and sea transportation, many of the units describing the competences relating to preparatory work, loading and unloading of explosive loads are also relevant to air transportation. However, there are specific requirements for the transportation by air of explosive loads, which are described by the “C” series of this key role.

The following units are also relevant to the transportation of explosive loads by air:

8.2, 8.4, 8.5, 8.6 and 8.7

The units relevant to air transportation are aimed at staff on airfields, who load and unload explosive cargoes. They do not describe the competences relating to aircrew.

Unit 8.1A Plan and manage the safe and secure transportation by road of explosive substances and articles

This unit comprises the following elements:

- 8.1.1A Plan the safe and secure transportation by road of explosive substances and articles
- 8.1.2A Manage the safe and secure transportation by road of explosive substances and articles

Unit 8.1A Plan and manage the safe and secure transportation by road of explosive substances and articles

8.1.1A Plan the safe and secure transportation by road of explosive substances and articles

Contexts

- Resources (vehicles; equipment; facilities; people; time): full access; limited access
- Sources of information: electronic; publications

Performance Criteria

You need to:

- work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- identify correctly the quantity and type of explosive to be moved, and the compatibility requirements
- carry out an appropriate risk assessment
- identify correctly the point of origin, destination and delivery date
- identify correctly the resources needed to transport the explosive load
- inform relevant external authorities
- prepare a comprehensive briefing pack, in line with organisational policies and procedures
- assemble the information to prepare the consignment and transport documentation
- complete and issue consignment and transport documentation to approved carriers, in line with legal and organisational policies and procedures
- maintain an appropriate level of confidentiality

Knowledge Requirements

You need to know and understand:

- the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- the relevance of personal protective equipment (PPE)
- the nature, characteristics, hazards and risks of the explosive substance and/or article
- the actions to be taken in response to an unplanned event
- the quantity of the explosive load, and any additional hazards associated with the transportation
- how to carry out a risk assessment
- factors affecting route planning (eg drivers' hours regulations and vehicle requirements)
- which external authorities should be informed, and why
- the information needed to compile a briefing pack
- the information needed to compile consignment and transport documentation
- any confidentiality requirements

Unit 8.1A Plan and manage the safe and secure transportation by road of explosive substances and articles

8.1.2A Manage the safe and secure transportation by road of explosive substances and articles

Contexts

- Managing transportation: in normal situations; when an emergency or breakdown occurs; in the case of delays

Performance Criteria

You need to:

- work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- ensure that there is a system in place to confirm the arrival, at staging points and final destination
- log escort calls, stating the explosive load destination, in accordance with organisational procedures
- invoke appropriate procedures if escorts or drivers do not report in when expected
- liaise with internal and/or external colleagues in the event of an emergency or breakdown
- ensure that complete and accurate records are maintained
- report any difficulties promptly to the appropriate authorities

Knowledge Requirements

You need to know and understand:

- the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- the relevance of personal protective equipment (PPE)
- the nature, characteristics, hazards and risks of the explosive substance and/or article
- the actions to be taken in response to an unplanned event
- the quantity of the explosive load, and any additional hazards associated with the transportation
- the route plan, and the expected timetable
- the possible courses of action that could be taken if drivers do not report in on time
- with which agencies to liaise, and why
- the effect on the customer of delays
- to whom to refer any difficulties

Unit 8.1B Plan and manage the safe and secure transportation by rail of explosive substances and articles

This unit comprises the following elements:

- 8.1.1B Plan the safe and secure rail transportation by rail of explosive substances and articles
- 8.1.2B Manage the safe and secure rail transportation by rail of explosive substances and articles

Unit 8.1B Plan and manage the safe and secure transportation by rail of explosive substances and articles

8.1.1B Plan the safe and secure transportation by rail of explosive substances and articles

Contexts

- Resources (vehicles; equipment; facilities; people; time): full access; limited access
- Sources of information: electronic; publications

Performance Criteria

You need to:

- work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- identify correctly the quantity and type of explosive to be moved, and the compatibility requirements
- carry out an appropriate risk assessment
- identify correctly the point of origin, destination and delivery date
- identify correctly the resources needed to transport the explosive load
- inform relevant external authorities
- prepare a comprehensive briefing pack, in line with organisational policies and procedures
- assemble the information, to prepare consignment and transport documentation
- complete and issue consignment and transport documentation to approved carriers, in line with legal and organisational policies and procedures
- maintain an appropriate level of confidentiality

Knowledge Requirements

You need to know and understand:

- the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- the relevance of personal protective equipment (PPE)
- the nature, characteristics, hazards and risks of the explosive substance and/or article
- the actions to be taken in response to an unplanned event
- the quantity of the explosive load, and any additional hazards associated with the transportation
- how to carry out a risk assessment
- factors affecting route planning (eg availability of rolling stock, geographical limitations, train capacity)
- which external authorities should be informed, and why
- the information needed to compile a briefing pack
- the information needed to compile consignment and transport documentation
- any confidentiality requirements

Unit 8.1B Plan and manage the safe and secure transportation by rail of explosive substances and articles

8.1.2B Manage the safe and secure transportation by rail of explosive substances and articles

Contexts

- Managing transportation: in normal situations; when an emergency or breakdown occurs; in the case of delays

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b ensure that deliveries are made within the prescribed timescale
- c ensure that complete and accurate records are maintained
- d report any difficulties promptly to the appropriate authorities

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the nature, characteristics, hazards and risks of the explosive substance and/or article
- iv the actions to be taken in response to an unplanned event
- v the quantity of the explosive load, and any additional hazards associated with the transportation
- vi the route plan, and the expected timetable
- vii the possible courses of action that could be taken if drivers do not report in on time, and consignments do not arrive on time
- viii with which agencies to liaise, and why
- ix the effect on the customer of delays
- x to whom to refer any difficulties

Unit 8.1C Plan and manage the safe and secure transportation by sea of explosive substances and articles

This unit comprises the following elements:

- 8.1.1C Plan the safe and secure transportation by sea of explosive substances and articles
- 8.1.2C Manage the safe and secure transportation by sea of explosive substances and articles

Unit 8.1C Plan and manage the safe and secure transportation by sea of explosive substances and articles

8.1.1C Plan the safe and secure transportation by sea of explosive substances and articles

Contexts

- Resources (vehicles; equipment; facilities; people; time): full access; limited access
- Sources of information: electronic; publications

Performance Criteria

You need to:

- work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- identify correctly the quantity and type of explosive to be moved, and the compatibility requirements
- carry out an appropriate risk assessment
- identify correctly the relevant points of origin, destinations and delivery dates
- identify correctly the resources needed to transport the explosive load
- inform relevant external authorities
- prepare a comprehensive briefing/briefing pack, in line with organisational policies and procedures
- assemble the information, to prepare consignment and transport documentation
- complete and issue consignment and transport documentation to approved carriers, in line with legal and organisational policies and procedures
- maintain an appropriate level of confidentiality

Knowledge Requirements

You need to know and understand:

- the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- the relevance of personal protective equipment (PPE)
- the nature, characteristics, hazards and risks of the explosive substance and/or article
- the actions to be taken in response to an unplanned event
- the quantity of the explosive load, and any additional hazards associated with the transportation
- how to carry out a risk assessment
- factors affecting load planning (eg vessel capabilities, loading priorities, multiple drops, other cargo)
- which external authorities should be informed, and why
- the information needed to compile a briefing/briefing pack
- the information needed to compile consignment and transport documentation
- any confidentiality requirements

Unit 8.1C Plan and manage the safe and secure transportation by sea of explosive substances and articles

8.1.2C Manage the safe and secure transportation by sea of explosive substances and articles

Contexts

- Managing transportation: in normal situations; when an emergency occurs; in the case of delays

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b ensure that there is a system in place to confirm the arrival at the destination
- c liaise with internal and/or external authorities in the event of an emergency or delay
- d ensure that complete and accurate records are maintained
- e report any difficulties promptly to the appropriate authorities

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the nature, characteristics, hazards and risks of the explosive substance and/or article
- iv the actions to be taken in response to an unplanned event
- v the quantity of the explosive load, and any additional hazards associated with the transportation
- vi the route plan and the expected timetable
- vii with which agencies to liaise, and why
- viii the effect on the customer of delays
- ix to whom to refer any difficulties

Unit 8.1D Plan and manage the safe and secure transportation by air of explosive substances and articles

This unit comprises the following elements:

- 8.1.1D Plan the safe and secure transportation by air of explosive substances and articles
- 8.1.2D Manage the safe and secure transportation by air of explosive substances and articles

Unit 8.1D Plan and manage the safe and secure transportation by air of explosive substances and articles

8.1.1D Plan the safe and secure transportation by air of explosive substances and articles

Contexts

- Resources (vehicles; equipment; facilities; people; time): full access; limited access
- Sources of information: electronic; publications

Performance Criteria

You need to:

- work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- identify correctly the quantity and type of explosive to be moved, and the compatibility requirements
- carry out an appropriate risk assessment
- identify correctly the relevant points of origin, destinations and delivery dates
- identify correctly the resources needed to transport the explosive load
- inform relevant external authorities
- prepare a comprehensive briefing pack, in line with organisational policies and procedures
- assemble the information, to prepare consignment and transport documentation
- complete and issue consignment and transport documentation to approved carriers, in line with legal and organisational policies and procedures
- maintain an appropriate level of confidentiality

Knowledge Requirements

You need to know and understand:

- the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- the relevance of personal protective equipment (PPE)
- the nature, characteristics, hazards and risks of the explosive substance and/or article
- the actions to be taken in response to an unplanned event
- the quantity of the explosive load, and any additional hazards associated with the transportation
- how to carry out a risk assessment
- factors affecting load planning (eg aircraft type, loading priorities, other cargo)
- which external authorities should be informed, and why
- the information needed to compile a briefing pack
- the information needed to compile consignment and transport documentation
- any confidentiality requirements

Unit 8.1D Plan and manage the safe and secure transportation by air of explosive substances and articles

8.1.2D Manage the safe and secure transportation by air of explosive substances and articles

Contexts

- Managing transportation: in normal situations; when an emergency occurs; in the case of delays

Performance Criteria

You need to:

- work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- ensure that there is a system in place to confirm the arrival of the load at the destination
- liaise with internal and/or external authorities, in the event of an emergency or delay
- ensure that complete and accurate records are maintained
- report any difficulties promptly to the appropriate authorities

Knowledge Requirements

You need to know and understand:

- the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- the relevance of personal protective equipment (PPE)
- the nature, characteristics, hazards and risks of the explosive substance and/or article
- the actions to be taken in response to an unplanned event
- the quantity of the explosive load, and any additional hazards associated with the transportation
- the destination, and expected timetable
- with which agencies to liaise, and why
- the effect on the customer of delays
- to whom to refer any difficulties

Unit 8.2 Obtain information on explosive substances and articles load

Contexts

- Information on the explosive load: type of explosive; quantity; packaging type

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b identify where information on the load can be obtained
- c identify any problems with obtaining the information on the load, and take appropriate action
- d identify any special requirements for loading and unloading
- e identify any special requirements for monitoring the load during transport
- f communicate, in an appropriate manner, with the relevant people
- g check and complete the consignment and transport documentation, in line with legal requirements and organisational policies and procedures

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the nature, characteristics, hazards and risks of the explosive substance and/or article
- iv the actions to be taken in response to an unplanned event
- v the required information on the load
- vi the types of special requirement that could be requested
- vii typical problems that could occur with the load
- viii the information needed to compile consignment and transport documentation

Unit 8.3A Plan the route and timings for the delivery and collection of explosive substances and articles by road

This unit comprises the following elements:

- 8.3.1A Obtain information on the destination and schedule
- 8.3.2A Identify a route to the destination
- 8.3.3A Estimate driving distances and times for the route
- 8.3.4A Plan driving stages

Unit 8.3A Plan the route and timings for the delivery and collection of explosive substances and articles by road

8.3.1A Obtain information on the destination and schedule

Contexts

- Destination: delivery point; collection point
- Schedule: collection time; delivery time, stops

Performance Criteria

You need to:

- work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- identify where information on the destination and schedule can be obtained
- identify any problems with obtaining the information on the destination and schedule, and take appropriate action
- identify any special requirements for reaching the destination
- identify any special requirements for timing the delivery or collection
- assess any recent information that could affect the achievement of the destination and schedule
- communicate, in an appropriate manner, with the relevant people

Knowledge Requirements

You need to know and understand:

- the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- the relevance of personal protective equipment (PPE)
- the nature, characteristics, hazards and risks of the explosive substance and/or article
- the actions to be taken in response to an unplanned event
- the required information on the destination and schedule
- the special requirements that could be requested
- typical problems that could occur with the destination and schedule

Unit 8.3A Plan the route and timings for the delivery and collection of explosive substances and articles by road

8.3.2A Identify a route to the destination

Contexts

- Destination: single delivery and/or collection; multiple delivery and/or collection
- Explosive loads: type of explosive; quantity

Performance Criteria

You need to:

- work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- review all relevant information on the destination
- identify any effect that the load might have on the selection of the route
- obtain relevant maps and information needed to reach the destination
- identify correctly the main and minor roads for reaching the destination
- identify any potential problems with using the roads
- identify correctly any prohibited areas, and identify any possible alternative routes
- ensure that your plan contains suitable contingency arrangements
- identify the timescale needed to complete the task
- plan staging points on the route, and confirm their availability
- maintain an appropriate level of confidentiality

Knowledge Requirements

You need to know and understand:

- the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- the relevance of personal protective equipment (PPE)
- the nature, characteristics, hazards and risks of the explosive substance and/or article
- the actions to be taken in response to an unplanned event
- the quantity of the explosive load, and any additional hazards associated with the transportation
- how to carry out a risk assessment
- any special requirements for staging points
- why a particular route might be required, preferred or prohibited
- factors affecting route planning (eg drivers' hours regulations and vehicle requirements)
- how to obtain relevant maps and information
- the possible effect a load might have on the selection of a route
- the height and weight of the laden vehicle
- how to identify low bridges and other restrictions
- how to work out routes
- any confidentiality requirements

Unit 8.3A Plan the route and timings for the delivery and collection of explosive substances and articles by road

8.3.3A Estimate driving distances and times for the route

Contexts

- Schedule: collection time; delivery time; stops
- Destination: single delivery and/or collection; multiple delivery and/or collection

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b review the relevant information on the route and the schedule
- c obtain the information needed to estimate the driving distance
- d identify the potential average speed for the different roads on the route
- e estimate the driving distances and time required to achieve the route and schedule
- f maintain an appropriate level of confidentiality

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the nature, characteristics, hazards and risks of the explosive substance and/or article
- iv the actions to be taken in response to an unplanned event
- v how to obtain relevant information on the route
- vi requirements for overnight stops/halts
- vii how to estimate driving distances
- viii how to estimate driving times
- ix any confidentiality requirements

Unit 8.3A Plan the route and timings for the delivery and collection of explosive substances and articles by road

8.3.4A Plan driving stages

Contexts

- Explosive loads: type of explosive; quantity
- Stops: where stops are required; where stops are not required

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b review the relevant information on the driving distances and times
- c identify any load requirements that may have an impact on the driving stages
- d determine the most effective way to use the available driving time
- e identify appropriate stops that have the facilities required for self, vehicle and load
- f ensure that your plan contains suitable contingencies
- g inform the relevant people of the driving stages

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the nature, characteristics, hazards and risks of the explosive substance and/or article
- iv the actions to be taken in response to an unplanned event
- v how to obtain relevant information on the driving distances and times
- vi load requirements that could affect the driving stages
- vii when stops might be required
- viii the types of facility required at stops
- ix how to plan for contingencies

Unit 8.3B Obtain information on the destination and schedule of the explosive load by rail

Contexts

- Destination: delivery point; collection point
- Schedule: collection time; delivery time

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b identify where information on the destination and schedule can be obtained
- c identify any problems with obtaining the information on the destination and schedule, and take appropriate action
- d identify any special requirements for reaching the destination
- e identify any special requirements for timing the delivery or collection
- f assess any recent information that could affect the achievement of the destination and schedule
- g communicate, in an appropriate manner, with the relevant people

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the nature, characteristics, hazards and risks of the explosive substance and/or article
- iv the actions to be taken in response to an unplanned event
- v the required information on the destination and schedule
- vi the special requirements that could be requested
- vii typical problems that could occur with the destination and schedule

Unit 8.3C Obtain information on the destination and schedule of the explosive load by sea

Contexts

- Destination: loading point; discharge point
- Schedule: loading time; discharge time

Performance Criteria

You need to:

- work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- identify where information on the destination and schedule can be obtained
- identify any problems with obtaining the information on the destination and schedule, and take appropriate action
- identify any special requirements on reaching the destination
- identify any special requirements for timing the loading or discharge
- report any factors that could affect the achievement of the destination and schedule
- communicate, in an appropriate manner, with the relevant people

Knowledge Requirements

You need to know and understand:

- the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- the relevance of personal protective equipment (PPE)
- the nature, characteristics, hazards and risks of the explosive substance and/or article
- the actions to be taken in response to an unplanned event
- the required information on the destination and schedule
- any special requirements (eg berthing, craning)
- typical of problems that could occur with the destination and schedule

Unit 8.3D Obtain information on the destination and schedule of the explosive load by air

Contexts

- Destination: loading point; unloading point
- Schedule: loading time; unloading time

Performance Criteria

You need to:

- work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- identify where information on the destination and schedule can be obtained
- identify any problems with obtaining the information on the destination and schedule, and take appropriate action
- identify any special requirements for reaching the destination
- identify any special requirements for timing the loading or discharge
- report any factors that could affect the achievement of the destination and schedule
- communicate, in an appropriate manner, with the relevant people

Knowledge Requirements

You need to know and understand:

- the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- the relevance of personal protective equipment (PPE)
- the nature, characteristics, hazards and risks of the explosive substance and/or article
- the actions to be taken in response to an unplanned event
- the required information on the destination and schedule
- any special requirements (eg licensed parking arrangements, specialised handling equipment)
- typical problems that could occur with the destination and schedule

Unit 8.4 Load the vehicle with explosive substances and articles

This unit comprises the following elements:

- 8.4.1 Prepare the vehicle for loading
- 8.4.2 Load the vehicle

Unit 8.4 Load the vehicle with explosive substances and articles

8.4.1 Prepare the vehicle for loading

Contexts

- Explosive loads: type of explosive; quantity
- Loading: complete; partial; sequential

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b ensure that you have the correct transport documentation
- c ensure the vehicle is ready to receive the load
- d identify and address any special requirements for loading
- e ensure that the correct safety equipment is available, and that it is fit for purpose
- f ensure that the loading area is suitable and safe
- g ensure that the vehicle is in a suitable position for loading
- h identify any problems with the loading, and take appropriate action

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the actions to be taken in response to an unplanned event
- iv the requirements of transport documentation
- v how to prepare different vehicles for different types of load
- vi the potential special requirements for loading
- vii the special safety equipment needed
- viii how vehicles should be positioned for loading

Unit 8.4 Load the vehicle with explosive substances and articles

8.4.2 Load the vehicle

Contexts

- Explosive loads: type of explosive; quantity
- Restraints for explosive loads: unitised; loose
- Loading: complete; partial; sequential

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b ensure that you have the correct transport documentation
- c ensure that compatibility group and segregation requirements are met, in loading the vehicle
- d ensure that the load is secured, with the correct restraints
- e ensure that any loose materials and restraints are secured, and not able to shift or come loose during transport
- f ensure that all safety requirements for transporting the explosives load are followed
- g apply the relevant security procedures and guidelines for protecting the explosive load
- h identify any problems with the loading, and take appropriate action

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the quantity, nature and risks of the explosive load and any additional hazards associated with the transportation
- iv the actions to be taken in response to an unplanned event
- v the requirements of transport documentation
- vi compatibility and segregation requirements
- vii mixing rules
- viii how to stow and secure different types of load
- ix how to ensure that the load is secure and stable
- x typical problems that could occur with the loading

Unit 8.5 Supervise the loading of the vehicle with explosive substances and articles by others

Contexts

- Explosive loads: type of explosive; quantity
- Loading: complete; partial; sequential
- Restraints for explosive loads: unitised; loose

Performance Criteria

You need to:

- work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- ensure that you have the correct transport and consignment documentation
- establish whether the vehicle is compatible with the load
- ensure that the vehicle is ready to receive the load
- ensure that any special requirements for loading are addressed
- ensure that the correct safety equipment is available, and that it is fit for purpose
- ensure that the loading area is suitable and safe
- ensure that the vehicle is in a suitable position for loading
- identify any problems with the loading, and take appropriate action
- ensure that compatibility group and segregation requirements are met, in loading the vehicle
- ensure that the load is secured with the correct restraints
- ensure that any loose materials and restraints have been secured
- ensure that the relevant security procedures and guidelines are followed for protecting the load
- confirm that the loaded vehicle complies with legal requirements

Knowledge Requirements

You need to know and understand:

- the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- the relevance of personal protective equipment (PPE)
- the nature, characteristics, hazards and risks of the explosive substance and/or article
- the actions to be taken in response to an unplanned event
- the requirements of transport and consignment documentation
- compatibility and segregation requirements
- mixing rules
- the quantity of the explosives load
- how to prepare different vehicles for different types of load
- the potential special requirements for loading
- the special safety equipment needed
- how vehicles should be positioned for loading
- how to monitor the loading of different types of load
- the importance of the security and stability of the explosive load
- the security risks associated with different loads
- typical problems that could occur with the loading
- how to confirm compliance with legal requirements
- your responsibilities as the competent person

Unit 8.6 Unload explosive substances and articles from the vehicle

This unit comprises the following elements:

- 8.6.1 Comply with proof-of-delivery requirements
- 8.6.2 Assist in the unloading of the vehicle

Unit 8.6 Unload explosive substances and articles from the vehicle

8.6.1 Comply with proof-of-delivery requirements

Contexts

- Explosive loads: type of explosive; quantity

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b identify the person authorised to receive the load
- c ensure that the load is delivered according to the documentation
- d complete all proof-of-delivery documentation, once unloading has been completed
- e communicate, in an appropriate manner, with the relevant people
- f identify any problems with obtaining the proof-of-delivery, and take appropriate action

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the nature, characteristics, hazards and risks of the explosive substances and/or articles
- iv the actions to be taken in response to an unplanned event
- v how to ensure that the load is delivered according to the documentation
- vi what to do if no-one is available or no-one takes responsibility for receiving the load

Unit 8.6 Unload explosive substances and articles from the vehicle

8.6.2 Assist in the unloading of the vehicle

Contexts

- Unloading: complete; partial; sequential
- Explosive loads: type of explosive; quantity
- Restraints for explosive loads: unitised; loose

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b ensure that you have the correct transport documentation
- c identify any special requirements for unloading
- d ensure that the unloading area is suitable and safe for the unloading
- e ensure that the vehicle is in a suitable position for unloading
- f ensure that the vehicle is prepared correctly for unloading
- g identify correctly the part of the load to be unloaded
- h confirm that the unloading has been correctly completed
- i communicate, in an appropriate manner, with the relevant people
- j identify any problems with the unloading, and take appropriate action

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the quantity, nature and risks of the explosive load and any additional hazards associated with the transportation
- iv the actions to be taken in response to an unplanned event
- v the requirements of transport documentation
- vi the potential special requirements for unloading
- vii how different vehicles should be prepared for unloading
- viii where vehicles should be positioned for unloading
- ix the requirements for unloading different types of explosive load
- x typical problems that could occur with the unloading
- xi the action to take in the event of damaged or suspect loads

Unit 8.7 Supervise the unloading of explosive substances and articles from the vehicle by others

Contexts

- Explosive loads: type of explosive; quantity
- Unloading: complete; partial; sequential
- Restraints for explosive loads: unitised; loose

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b ensure that you have the correct transport and consignment documentation
- c ensure that the vehicle is correctly prepared for unloading
- d ensure that any special requirements for unloading are addressed
- e ensure that the correct safety equipment is available, and that it is fit for purpose
- f ensure that the unloading area is suitable and safe
- g ensure that the vehicle is in a suitable position for unloading
- h identify any problems with the unloading, and take appropriate action
- i report any infringements of compatibility, safety or security

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the nature, characteristics, hazards and risks of the explosive substance and/or article
- iv the actions to be taken in response to an unplanned event
- v the requirements of transport and consignment documentation
- vi compatibility and segregation requirements
- vii mixing rules
- viii the quantity of the explosives load
- ix how to prepare different vehicles for unloading
- x the potential special requirements for unloading
- xi the special safety equipment needed
- xii how vehicles should be positioned for unloading
- xiii how to monitor the unloading of different types of load
- xiv the importance of the security and stability of the explosive load
- xv the security risks associated with different loads
- xvi typical problems that could occur with the unloading
- xvii the action to take in the event of damaged or suspect loads
- xviii how to confirm compliance with legal requirements
- xix your responsibilities as the competent person

Unit 8.8 Complete pre-driving preparations (DGV6)

This unit comprises the following elements:

- 8.8.1 Identify vehicle instruments and controls
- 8.8.2 Complete vehicle and safety checks
- 8.8.3 Complete vehicle and load documentation

Purpose of this unit

The purpose of this unit is to define the competences required in employment to carry out the necessary checks on and to the goods vehicle before driving it. These checks include making sure that the various driving instruments and controls are functioning correctly. The unit also covers completing the documents relating to the load and the vehicle. Where any problems are found, either during the checks or while completing the documents, they should be dealt with appropriately.

An important part of the standard is the requirement for relevant legal, safety and operating requirements to be met.

This unit can, amongst other uses, be used as an outcome of training, or in the assessment of occupational competence in carrying out pre-driving checks to goods vehicles and completing the documents relating to the vehicle and its load.

This unit has been imported from Skills for Logistics' suite of National Occupational Standards in Driving Goods Vehicles (unit DGV 6), and has been tailored to the needs of the explosives industry.

Unit 8.8 Completing pre-driving preparations (DGV6)

8.8.1 Identify vehicle instruments and controls

Contexts

- Instruments: gauges; warning lights; displays; audible alerts
- Controls: accelerator; clutch; footbrake; handbrake; steering wheel; gears; indicators; lights; windscreen wipers; demisters; heating and ventilation
- Legal, safety, and operating requirements: highway codes; transport regulations; load restrictions; alcohol limits and drug restrictions; drivers' hours

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b identify the location of instruments and controls
- c confirm the functions of instrumentation and controls
- d obtain information on unfamiliar instrumentation and controls

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the actions to be taken in response to an unplanned event
- iv the typical instrumentation and controls found on different vehicles
- v where to find information on the operation of instrumentation and controls

Unit 8.8 Complete pre-driving preparations (DGV6)

8.8.2 Complete vehicle and safety checks

Contexts

- Routine checks: tyres; fluid levels (fuel, oil, coolant, brake, hydraulic, washer); seat belts; mirrors; windscreen and glass; wipers and washers; lights; reflectors; indicators; wheel nuts
- Instruments: gauges; warning lights; displays; audible alerts
- Controls: accelerator; clutch; footbrake; handbrake; steering wheel; gears; indicators; lights; windscreen wipers; demisters; heating and ventilation
- Vehicle systems: ignition; electrical; lights; brakes; transmission; engine; fuel; tyres
- Legal, safety, and operating requirements: highway codes; transport regulations; load restrictions; alcohol limits and drug restrictions; drivers' hours

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b ensure that all instruments, controls, and vehicle systems are functioning correctly
- c adjust mirrors, seat, and steering wheel for optimum control and observation
- d verify the vehicle and load height and weight
- e identify any new or previously reported problems with the vehicle, and take appropriate action

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the actions to be taken in response to an unplanned event
- iv how to check instruments, controls, and vehicle systems
- v how to obtain information on previously-reported problems
- vi the risks associated with 'blind spots' inside or outside the vehicle
- vii how to recognise the indications of any problems
- viii the procedures for reporting defects

Unit 8.8 Complete pre-driving preparations (DGV6)

8.8.3 Complete vehicle and load documentation

Contexts

- Legal, safety, and operating requirements: highway codes; transport regulations; load restrictions; alcohol limits and drug restrictions; drivers' hours

Performance Criteria

You need to:

- work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- identify the person responsible for officially releasing the vehicle and load
- ensure that the correct vehicle is identified for use
- complete all vehicle and load documentation
- ensure that insurance, road tax, vehicle plate, and other legal documents are correct
- identify any problems with the vehicle and load documentation, and take appropriate action

Knowledge Requirements

You need to know and understand:

- the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- the relevance of personal protective equipment (PPE)
- the actions to be taken in response to an unplanned event
- the documentation to be carried
- the responsibilities of the driver for the vehicle and load

Unit 8.9 Maintain the safety and the security of the load, self and property (DGV 7)

This unit comprises the following elements:

- 8.9.1 Identify the legal, safety and operating requirements for the vehicle and the load
- 8.9.2 Protect the vehicle and load from security risks

Purpose of this unit

The purpose of this unit is to define the competences required in employment to contribute to security in the work role. This is achieved by knowing and applying the relevant legal, safety and operating requirements before driving. As would be expected, the emphasis is on applying appropriate safety and security measures to load and vehicle and to property. This includes knowing the checks that you should make of your own fitness to drive in the context of legal requirements and operational procedures.

This unit can, amongst other uses, be used as an outcome of training, or in the assessment of occupational competence to know, understand and apply safety and security practices and procedures relating to goods vehicle driving.

This unit has been imported from Skills for Logistics' suite of National Occupational Standards in Driving Goods Vehicles (unit DGV 7), and has been tailored to the needs of the explosives industry.

Unit 8.9 Maintain the safety and the security of the load, self and property (DGV7)

8.9.1 Identify the legal, safety, and operating requirements for the vehicle and the load

Contexts

- Legal, safety, and operating requirements: highway codes; transport regulations; load restrictions; alcohol limits and drug restrictions; drivers' hours

Performance Criteria

You need to:

- work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- obtain information on the legal, safety, and operating requirements that apply to driving the vehicle, carrying the load, and the roads to be used
- observe the legal, safety, and operating requirements of the vehicle and the load, before and during driving
- ensure that you hold the correct driving licence for the vehicle being driven
- check that you are fit to drive safely, in compliance with all relevant legal, safety, and operating requirements at all times
- identify any problems with complying with legal, safety, and operating requirements, and take appropriate action

Knowledge Requirements

You need to know and understand:

- the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- the relevance of personal protective equipment (PPE)
- the actions to be taken in response to an unplanned event
- where to obtain information on legal, safety, and operating requirements
- typical problems with legal, safety, and operating requirements that could occur

Unit 8.9 Maintain the safety and the security of the load, self and property (DGV7)

8.9.2 Protect the vehicle and load from security risks

Contexts

- Locations: overnight parking; daytime parking; refuelling; while driving; during loading and unloading
- Legal, safety, and operating requirements: highway codes; transport regulations; load restrictions; alcohol limits and drug restrictions; drivers' hours

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b apply the organisational security procedures to the vehicle and load, in different locations
- c demonstrate the correct emergency procedures
- d report any theft or damage, according to organisational procedures

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the actions to be taken in response to an unplanned event
- iv the security risks associated with the vehicle and load
- v the security risks associated with different loads
- vi the security risks of different locations
- vii the organisation's procedures relating to the security of the vehicle
- viii the actions that should be taken for different types of security risk

Unit 8.10 Maintain awareness of driving conditions (DGV 8)

This unit comprises the following elements:

- 8.10.1 Assess the effects of driving conditions
- 8.10.2 Monitor the load during driving
- 8.10.3 Contribute to the safety of self, vehicle, load and other road users

Purpose of this unit

The purpose of this unit is to define the competences required in employment to be aware of and prepared to respond to driving conditions. These conditions relate to the road, traffic, activities of other road users, and the load being carried. The possible effect of these conditions should be assessed, and appropriate responsive action taken. These actions could relate directly to driving techniques, the loads, or the collection or delivery of load.

This standard, therefore, requires driving conditions to be consistently monitored, for action to be taken to avoid or minimise loss of control of the vehicle, damage to the vehicle or the load, or danger to other road users.

An important part of the standard is the requirement for relevant legal, safety and operating requirements to be met.

This unit can, amongst other uses, be used as an outcome of training, or in the assessment of occupational competences to be aware of and be prepared to respond appropriately to driving conditions.

This unit has been imported from Skills for Logistics' suite of National Occupational Standards in Driving Goods Vehicles (unit DGV 8), and has been tailored to the needs of the explosives industry.

Unit 8.10 Maintain awareness of driving conditions (DGV8)

8.10.1 Assess the effects of driving conditions

Contexts

- Behaviour of the vehicle: handling; braking; acceleration; stability
- Road conditions: weather (rain, snow, sleet, ice, wind, fog); road surface (cracks and pot-holes, standing water, spillage, leaves); light (darkness, strong sunlight, dusk/dawn)
- Road layout: single carriageway; multiple carriageway; hills and dips; bridges; height and width restrictions; road works; pavement and kerbs; traffic furniture; walls and hedges
- Traffic conditions: stopping or queuing; overtaking by other road users; acceleration of traffic; turns
- Loss of control: collision; skidding; roll over
- Legal, safety, and operating requirements: highway codes; transport regulations; load restrictions; alcohol limits and drug restrictions; drivers' hours

Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b obtain information on the likely driving conditions
- c monitor any changes in driving conditions during driving
- d inform the relevant people of changes in the schedule resulting from driving conditions

Knowledge

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the actions to be taken in response to an unplanned event
- iv where to obtain information on driving conditions
- v the restrictions on driving in difficult conditions
- vi the relevant legal, safety, and operating requirements
- vii types of delay that could occur, and who to inform
- viii how driving conditions could affect the behaviour of the vehicle while driving at different speeds
- ix how road conditions and the road layout could affect traffic conditions
- x how the driving conditions could cause the loss of control of the vehicle

Unit 8.10 Maintain awareness of driving conditions (DGV8)

8.10.2 Monitor the load during driving

Contexts

- Driving conditions: road conditions; traffic conditions; road layout
- Condition of the load: movement; change in weight; loss of material
- Loss of control: collision; skidding; roll over
- Legal, safety, and operating requirements: highway codes; transport regulations; load restrictions; alcohol limits and drug restrictions; drivers' hours

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b obtain information on current and future driving conditions, before and during driving
- c monitor the condition of the load at regular intervals
- d identify any damage to the load
- e report any change in the condition of the load, according to organisational procedures

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the actions to be taken in response to an unplanned event
- iv where to obtain information on driving conditions
- v the restrictions to transporting different loads
- vi how changing driving conditions could affect the condition of the load
- vii how changes in the condition of the load could cause a loss of control
- viii how to monitor the condition of different loads

Unit 8.10 Maintain awareness of driving conditions (DGV 8)

8.10.3 Contribute to the safety of self, vehicle, load and other road users

Contexts

- Hazards: road conditions; traffic conditions; road layout
- Road users: motor vehicles; motor bikes; bicycles; pedestrians; animals
- Legal, safety, and operating requirements: highway codes; transport regulations; load restrictions; alcohol limits and drug restrictions; drivers' hours

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b respond to changes in road conditions, traffic regulations and traffic conditions
- c respond effectively to actions of other road users that could affect the safety of the vehicle, the load or other road users
- d ensure that road users are aware of any changes in your vehicle direction or manoeuvres, before they are carried out
- e take preventative action to avoid harm to any road users
- f demonstrate the correct procedure during any breakdowns, to ensure the safety of self, others, and the vehicle

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the actions to be taken in response to an unplanned event
- iv the type of road changes, traffic regulations and traffic conditions that could occur while driving
- v the signs that would indicate that other road users are aware of your intended changes in vehicle direction or manoeuvres
- vi the actions that should be taken for different types of emergency

Unit 8.11 Operate the vehicle systems (DGV9)

This unit comprises the following elements:

- 8.11.1 Operate and monitor vehicle instruments and controls
- 8.11.2 Ensure the efficient and careful use of the vehicle

Purpose of this unit

The purpose of this unit is to define the competences required in employment to operate the systems and equipment that are used in driving goods vehicles. This standard requires the correct operation of vehicle controls, and monitoring of instruments such as gauges, warning lights, displays, audible alerts and tachographs, where fitted. The standard also requires the vehicle to be driven in a way that conserves fuel, wherever possible, and minimises wear and tear on the various systems. Any problems in operating vehicle systems that occur should be identified and dealt with.

An important part of the standard is the requirement for relevant legal, safety and operating requirements to be met.

This unit can, amongst other uses, be used as an outcome of training, or in the assessment of occupational competences to operate goods vehicle systems and equipment in order to drive on public roads.

This unit has been imported from Skills for Logistics' suite of National Occupational Standards in Driving Goods Vehicles (unit DGV 9), and has been tailored to the needs of the explosives industry.

Unit 8.11 Operate the vehicle systems (DGV9)

8.11.1 Operate and monitor vehicle instruments and controls

Contexts

- Controls: accelerator; clutch; footbrake; handbrake; steering wheel; gears; indicators; lights; windscreen wipers; demisters; heating and ventilation
- Instruments: gauges; warning lights; displays; audible alerts
- Vehicle systems: ignition; electrical; lights; brakes; transmission; engine; fuel; tyres
- Legal, safety, and operating requirements: highway codes; transport regulations; load restrictions; alcohol limits and drug restrictions; drivers' hours

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b operate the vehicle controls
- c monitor the vehicle instruments at suitable times during driving
- d operate the vehicle controls to maintain the safety and security of self, the vehicle and others
- e identify any problems with the vehicle systems, and take appropriate action

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the actions to be taken in response to an unplanned event
- iv how to operate different vehicle systems
- v typical problems that could occur with different systems

Unit 8.11 Operate the vehicle systems (DGV9)

8.11.2 Ensure the efficient and careful use of the vehicle

Contexts

- Vehicle systems: ignition; electrical; lights; brakes; transmission; engine; fuel; tyres
- Legal, safety, and operating requirements: highway codes; transport regulations; load restrictions; alcohol limits and drug restrictions; drivers' hours

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b ensure that the vehicle has the correct type and amount of fuel
- c monitor the fuel levels of the vehicle regularly
- d operate the vehicle in a way that conserves fuel, wherever possible
- e minimise wear and tear on the vehicle systems
- f identify any problems affecting the efficiency of the vehicle, and take appropriate action

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the actions to be taken in response to an unplanned event
- iv the fuel requirements of the different vehicles being driven
- v the impact of driving technique on vehicle wear and tear and fuel consumption
- vi how to operate fuel delivery systems

Unit 8.12 Drive the vehicle on public roads (DGV 10)

This unit comprises the following elements:

- 8.12.1 Position the vehicle on the road
- 8.12.2 Control the speed of the vehicle
- 8.12.3 Overtake other vehicles
- 8.12.4 Brake the vehicle within a limited space
- 8.12.5 Control the vehicle in an emergency situation

Purpose of this unit

The purpose of this unit is to define the minimum competences required in employment to drive goods vehicles on public roads. The emphasis of this unit is on safety, rather than fuel efficiency and minimal vehicle wear and tear. The unit is, therefore, intended to apply to someone having recently demonstrated basic skills in driving goods vehicles, for example having just passed the appropriate driving test. This unit does differ from Driving Standards Agency tests, in that it requires competence to be demonstrated whilst driving a goods vehicle that is laden with a typical load.

The standard covers the skills required to maintain appropriate road position and speed, overtake other vehicles, brake the vehicle, and control the vehicle in emergency situations. It is required that these actions take account of other road users and the prevailing driving conditions. The standard also requires hazards and emergencies to be recognised, and appropriate action to be taken.

An important part of the standard is the requirement for relevant legal, safety and operating requirements to be met.

This unit can, amongst other things, be used as an outcome of training, or in the assessment of occupational competences to drive goods vehicles on public roads.

This unit has been imported from Skills for Logistics' suite of National Occupational Standards in Driving Goods Vehicles (unit DGV 10), and has been tailored to the needs of the explosives industry.

Unit 8.12 Drive the vehicle on public roads (DGV 10)

8.12.1 Position the vehicle on the road

Contexts

- Change in direction: right and left turns; lane changes; filters; negotiating roundabout; manoeuvring
- Road users: motor vehicles; motor bikes; bicycles; pedestrians; animals
- Driving conditions: road conditions; traffic conditions; road layout
- Legal, safety, and operating requirements: highway codes; transport regulations; load restrictions; alcohol limits and drug restrictions; drivers' hours

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b respond to potential hazards on the road or surrounding areas
- c identify any change in direction required to maintain the route
- d position the vehicle to maintain the safety of self and other road users in both directions
- e position the vehicle according to the prevailing driving conditions
- f position the vehicle in a suitable way for the vehicle and its load
- g use and cancel signals appropriately when changing direction, and check that other road users have observed them
- h maintain lane discipline wherever possible

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the actions to be taken in response to an unplanned event
- iv how changing driving conditions could affect other road users
- v how the actions of other road users could cause a loss of control
- vi how to spot when other road users are about to change direction and speed
- vii when to use signals to indicate a change of position

Unit 8.12 Drive the vehicle on public roads (DGV 10)

8.12.2 Control the speed of the vehicle

Contexts

- Change in speed: acceleration; deceleration
- Road users: motor vehicles; motor bikes; bicycles; pedestrians; animals
- Driving conditions: road conditions; traffic conditions; road layout
- Braking systems: footbrake; handbrake; engine
- Legal, safety, and operating requirements: highway codes; transport regulations; load restrictions; alcohol limits and drug restrictions; drivers' hours

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b identify quickly any change in speed required to maintain the route
- c control the speed of the vehicle correctly to maintain the safety of self and road users in both directions
- d control the speed of the vehicle, according to the prevailing driving conditions
- e control the speed of the vehicle in a suitable way for the vehicle and its load
- f apply the braking systems of the vehicle correctly

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the actions to be taken in response to an unplanned event
- iv how speed should be altered to meet different types of road conditions and schedule requirements
- v how to use the controls of the vehicle to adjust speed
- vi how to assess and maintain safe separation distances
- vii the factors affecting vehicle stopping distances

Unit 8.12 Drive the vehicle on public roads (DGV 10)

8.12.3 Overtake other vehicles

Contexts

- Other vehicles: moving; stationary
- Driving conditions: road conditions; traffic conditions; road layout
- Road users: motor vehicles; motor bikes; bicycles; pedestrians; animals
- Legal, safety, and operating requirements: highway codes; transport regulations; load restrictions; alcohol limits and drug restrictions; drivers' hours

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b overtake other vehicles when necessary
- c identify potential hazards affecting the overtaking manoeuvre
- d identify a suitable point to overtake vehicles, and ensure that driving conditions are still suitable
- e signal the intention to overtake, in sufficient time for road users in both directions to take appropriate action
- f control the position and speed of the vehicle to safely overtake other vehicles

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the actions to be taken in response to an unplanned event
- iv when it is safe to overtake vehicles
- v the types of hazard involved in overtaking
- vi when signals should be used
- vii when overtaking should occur, and when it should not
- viii the relevant legal, safety, and operating requirements
- ix factors affecting the distance required to overtake other vehicles

Unit 8.12 Drive the vehicle on public roads (DGV 10)

8.12.4 Brake the vehicle within a limited space

Contexts

- Driving conditions: road conditions; traffic conditions; road layout
- Braking systems: footbrake; handbrake; engine
- Road users: motor vehicles; motor bikes; bicycles; pedestrians; animals
- Legal, safety, and operating requirements: highway codes; transport regulations; load restrictions; alcohol limits and drug restrictions; drivers' hours

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b brake the vehicle in a manner appropriate to the driving conditions and the distance available for braking the vehicle
- c slow or bring the vehicle to a complete stop
- d apply braking systems effectively
- e control the deceleration of the vehicle to maintain the safety of self and other road users in both directions
- f control the deceleration of the vehicle in a suitable way for the vehicle and its load
- g confirm the roadworthiness of the vehicle after severe braking

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the actions to be taken in response to an unplanned event
- iv the types of hazard that could occur on the road
- v the braking characteristics of different types of vehicle, when laden and unladen
- vi how to use the controls of the vehicle to adjust braking in different road conditions
- vii the possible effects of severe braking on the roadworthiness of a vehicle
- viii the effects of brake fade

Unit 8.12 Drive the vehicle on public roads (DGV 10)

8.12.5 Control the vehicle in an emergency situation

Contexts

- Emergencies: loss of control of the vehicle; mechanical failure; accidents
- Primary controls: accelerator; clutch; footbrake; steering wheel; gears
- Road users: motor vehicles; motor bikes; bicycles; pedestrians; animals
- Legal, safety, and operating requirements: highway codes; transport regulations; load restrictions; alcohol limits and drug restrictions; drivers' hours

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b identify immediately any emergencies that require action
- c identify the appropriate action to take
- d assess the distance available for braking the vehicle
- e apply the primary controls of the vehicle effectively to respond to the emergency
- f control the behaviour of the vehicle to maintain the safety of self and other road users
- g confirm the roadworthiness of the vehicle after the emergency

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the actions to be taken in response to an unplanned event
- iv the types of emergency that could occur
- v the actions that should be taken for different types of emergency
- vi how to use the controls of the vehicle during emergencies
- vii the effect that different emergencies could have on the roadworthiness of a vehicle

Unit 8.13 Drive the vehicle in restricted spaces (DGV 11)

This unit comprises the following elements:

- 8.13.1 Select a space for manoeuvring the vehicle
- 8.13.2 Manoeuvre the vehicle in restricted spaces

Purpose of this unit

The purpose of this unit is to define the competences required in employment to manoeuvre goods vehicles in restricted spaces. These manoeuvres would be those normally required in the delivery or collection of loads, including refuelling, parking or for maintenance purposes. The manoeuvres could be carried out in such places as industrial, retail or commercial sites, parking areas, public roads or garages. Before any manoeuvre is attempted, the space should be assessed for its suitability and safety for the manoeuvre.

An important part of the standard is the requirement for relevant legal, safety and operating requirements to be met.

This unit can, amongst other things, be used as an outcome of training, or in the assessment of occupational competence to manoeuvre goods vehicles safely in restricted spaces.

This unit has been imported from Skills for Logistics' suite of National Occupational Standards in Driving Goods Vehicles (unit DGV 11), and has been tailored to the needs of the explosives industry.

Unit 8.13 Drive the vehicle in restricted spaces (DGV 11)

8.13.1 Select a space for manoeuvring the vehicle

Contexts

- Activities: loading; unloading; refuelling; parking; maintenance
- Manoeuvre: forward movements; reverse movements; turns
- Legal, safety, and operating requirements: highway codes; transport regulations; load restrictions; alcohol limits and drug restrictions; drivers' hours

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b identify a suitable space for the vehicle and the manoeuvring activities to be undertaken
- c determine whether the vehicle can be manoeuvred safely within the available space
- d identify alternative spaces, if necessary

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the actions to be taken in response to an unplanned event
- iv the dimensions of the vehicle
- v the clearances that are necessary for the vehicle and different activities
- vi the type of damage that could occur during manoeuvring
- vii the possible problems of using other people to assist during manoeuvring

Unit 8.13 Drive the vehicle in restricted spaces (DGV 11)

8.13.2 Manoeuvre the vehicle in restricted spaces

Contexts

- Manoeuvre: forward movements; reverse movements; turns
- Road users: motor vehicles; motor bikes; bicycles; pedestrians; animals
- Activities: loading; unloading; refuelling; parking; maintenance
- Legal, safety, and operating requirements: highway codes; transport regulations; load restrictions; alcohol limits and drug restrictions; drivers' hours

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b ensure that the space is clear of obstructions
- c signal the intention to manoeuvre, in sufficient time for other road users to take appropriate action
- d monitor the actions of other road users throughout the manoeuvre
- e manoeuvre the vehicle at an appropriate speed for the vehicle and its load
- f manoeuvre the vehicle to maintain the safety of self and other road users
- g manoeuvre the vehicle to avoid damage to the vehicle and the surrounding environment
- h complete the manoeuvre so that the vehicle is in a suitable position for the required activities

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the actions to be taken in response to an unplanned event
- iv the types of hazard that could occur during manoeuvring
- v when to use signals to indicate manoeuvring
- vi the effects of inappropriate speed during manoeuvring

Unit 8.14A Couple and uncouple the vehicle (DGV 12)

This unit comprises the following elements:

- 8.14.1 Couple the vehicle
- 8.14.2 Uncouple the vehicle

Purpose of this unit

The purpose of this unit is to define the competences required in employment to couple and uncouple tractor units and trailers. Coupling the trailer will require the tractor unit to be manoeuvred into position to carry out the coupling, preparing the unit and trailer for coupling, all connections to be made effectively, and the vehicle's systems be checked ready for driving. Uncoupling will require a safe site to be selected, preparing the unit and trailer for uncoupling, the appropriate connections to be released, and the vehicle checked ready for driving away.

An important part of the standard is the requirement for relevant legal, safety and operating requirements to be met.

This unit can, amongst other things, be used as an outcome of training, or in the assessment of occupational competence to couple and uncouple tractor units and trailers.

This unit has been imported from Skills for Logistics' suite of National Occupational Standards in Driving Goods Vehicles (unit DGV 12), and has been tailored to the needs of the explosives industry.

Unit 8.14A Couple and uncouple the vehicle (DGV 12)

8.14.1A Couple the vehicle

Contexts

- Manoeuvre: forward movements; reverse movements; turns
- Connections: air line; electrical lines
- Legal, safety, and operating requirements: highway codes; transport regulations; load restrictions; alcohol limits and drug restrictions; drivers' hours

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b manoeuvre the unit in relation to the trailer, ready for coupling
- c prepare the unit and trailer for coupling
- d ensure that the trailer's brakes are applied during coupling
- e test the coupling to ensure that it has been established correctly
- f make all the connections that need to be established
- g ensure that unit and trailer systems are functioning
- h ensure that the coupled vehicle is safe for driving

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the actions to be taken in response to an unplanned event
- iv how different types of coupling work
- v when and how different connections have to be made

Unit 8.14A Couple and uncouple the vehicle (DGV 12)

8.14.2A Uncouple the vehicle

Contexts

- Manoeuvre: forward movements; reverse movements; turns
- Connections: air line; electrical lines
- Legal, safety, and operating requirements: highway codes; transport regulations; load restrictions; alcohol limits and drug restrictions; drivers' hours

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b select a safe site for uncoupling the vehicle
- c manoeuvre the vehicle ready for uncoupling
- d prepare the unit and trailer for uncoupling
- e ensure that the trailer's brakes are applied during uncoupling
- f release the connections between the unit and trailer correctly
- g drive away from the trailer carefully, and ensure that uncoupling has been achieved
- h ensure that unit and relevant trailer systems are functioning
- i ensure that the unit is safe for driving

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the actions to be taken in response to an unplanned event
- iv how different types of coupling work
- v how to uncouple different connections

Unit 8.14B Couple and uncouple the train

This unit comprises the following elements:

- 8.14.1B Couple the train
- 8.14.2B Uncouple the train

Unit 8.14B Couple and uncouple the train

8.14.1B Couple the train

Contexts

- Manoeuvre: forward movements; reverse movements
- Connections: air line; mechanical connections

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b marshal the train into the correct position, ready for coupling
- c ensure that appropriate preparations have been carried out, prior to coupling
- d confirm that the coupling has been established correctly

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the nature, characteristics, hazards and risks of the explosive substances and/or articles
- iv the actions to be taken in response to an unplanned event
- v how different types of coupling work
- vi when and how different connections have to be made

Unit 8.14B Couple and uncouple the train

8.14.2B Uncouple the train

Contexts

- Manoeuvre: forward movements; reverse movements
- Connections: air line; mechanical connections

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b select a safe site for uncoupling the train
- c marshal the train into the area correctly
- d ensure that appropriate preparations have been carried out, prior to uncoupling
- e confirm that the uncoupling has been established correctly

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the nature, characteristics, hazards and risks of the explosive substances and/or articles
- iv the actions to be taken in response to an unplanned event
- v how different types of coupling work
- vi how to uncouple different connections

Unit 8.15 Escort the explosive substances and articles load

Contexts

- Situations: in normal conditions; in the event of an emergency or breakdown

Performance Criteria

You need to:

- a work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- b ensure that you understand the brief and your responsibilities in this task
- c ensure that the vehicle is never left unattended at any time during the journey
- d contact the emergency services promptly, in the event of a breakdown or emergency, if appropriate
- e assist the driver, as necessary, in the event of an emergency or breakdown
- f confirm your safe arrival at the correct destination
- g maintain an appropriate level of confidentiality

Knowledge Requirements

You need to know and understand:

- i the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives, and their implications for your area of work
- ii the relevance of personal protective equipment (PPE)
- iii the actions to be taken in response to an unplanned event
- iv the nature of the load, and the hazards and risks attached to it
- v the relevant safety precautions for the load
- vi the safety issues relating to the load (eg ignition sources and electronic equipment, such as lighters and mobile 'phones)
- vii the requirements of confidentiality

GLOSSARY OF DGV TERMS

On this and the following page is a list of some of the key phrases used in the Driving Goods Vehicles standards (ie the units referenced “DGV”). These are used as “contexts” to emphasize the breadth of activity that occurs.

Activities: loading, unloading, refuelling, parking, maintenance

Behaviour of the vehicle: handling, braking, acceleration, stability

Braking systems: footbrake, handbrake, engine

Change in direction: right and left turns, lane changes, filters, negotiating roundabouts, manoeuvring

Change in speed: acceleration, deceleration

Condition of the load: movement, change in weight, loss of material

Connections: air line, electrical lines

Controls: accelerator, clutch, footbrake, handbrake, steering wheel, gears, indicators, lights, windscreen wipers, demisters, heating and ventilation

Destination: delivery point, collection point

Driving conditions: road conditions, traffic conditions, road layout

Emergencies: loss of control of the vehicle, mechanical failure, accidents

Hazards: road conditions, traffic conditions, road layout

Instruments: gauges, warning lights, displays, audible alerts

Legal, safety, and operating requirements: highway codes, transport regulations, load restrictions, alcohol limits and drug restrictions, drivers' hours

Loading: complete, partial, sequential

Loading area: industrial/commercial sites, public road

Locations: overnight parking, daytime parking, refuelling, while driving, during loading and unloading

Loss of control: collision, skidding, roll over, engine failure, brake failure

Manoeuvre: forward movements, reverse movements, turns

Other vehicles: moving, stationary

Primary controls: accelerator, clutch, footbrake, steering wheel, gears

Restraints: straps, battens and chocks, chains, ropes

Road conditions: weather (rain, snow, sleet, ice, wind, fog), road surface (cracks and pot-holes, standing water, spillage, leaves), light (darkness, strong sunlight, dusk/dawn)

Road layout: single carriageway, multiple carriageway, hills and dips, bridges, height and width restrictions, road works, pavement and kerbs, traffic furniture, walls and hedges

Road users: motor vehicles, motor bikes, bicycles, pedestrians, animals

Routine checks: tyres, fluid levels (fuel, oil, coolant, brake, hydraulic, washer), seat belts, mirrors, windscreen and glass, wipers and washers, lights, reflectors, indicators, wheel nuts

Schedule: collection time, delivery time, stops

Stops: overnight, rests, refuelling, changeovers

Traffic conditions: stopping or queuing, overtaking by other road users, acceleration of traffic, turns

Unloading: complete, partial, sequential

Unloading area: industrial/commercial sites, public road

Vehicle systems: ignition, electrical, lights, brakes, transmission, engine, fuel, tyres