

# Training Standard

## Plant and vehicle marshaller (Novice)

### Learning outcomes

Including additional guidance to support training delivery and final assessment

*The learner will be able to:*

explain the factors that help maintain a safe working environment in the construction industry, and their responsibilities as a plant and vehicle marshaller

*Delivery to include:*

- why the industry has many hazards and why safe working practices must be adopted and maintained
- why personal health and safety is not just physical injury and can include the effects of noise and vibration. All of which can lead to lost time, lost income, expense for the employer, fines, custodial sentences etc.
- Health & Safety at Work Act 1974, Provision and Use of Work Equipment Regulations (PUWER), Management of Health and Safety of Work (MHSW (Management of Health and Safety of Work)) Regulations, Construction (Design & Management) Regulations (CDM), Vibration at Work Regulations, Road Traffic Act, HSG144, LOLER (Lifting Operations and Lifting Equipment Regulations), HSG47 etc. in accordance with risk assessments, method statements, codes of practice and other relevant legislation, regulations, and industry good practice
- plant and vehicle marshalls moral, legal, and environmental obligations
- reporting structures, the importance of effective communication on site (colleagues, management, and other workers on site)
- previous incidences involving relevant plant and pedestrians
- working with other related roles e.g. other marshalls, supervisors, other plant operatives, other occupations, and support workers

*Assessment criteria:*

- identify common hazards on a construction site
- explain safe working practices relevant to the role of the plant and vehicle marshaller
- explain personal health and safety relevant to the role of the plant and vehicle marshaller
- identify aspects of legislation, regulations, and industry good practice relevant to the role of the plant and vehicle marshaller
- describe reporting structures and the importance of effective communication on site
- explain the responsibilities of the plant and vehicle marshaller

identify the roles and responsibilities of the plant and vehicle marshaller

*Delivery to include:*

- requirements of the role
- what is not their role such as public highways interface
- difference between the plant and vehicle marshaller, other support workers, and traffic marshal roles

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*Assessment criteria:*

- describe the roles and responsibilities of the plant and vehicle marshaller as listed in the above delivery criteria
- identify the limitations of the role to include public highways interface
- identify the differences between the plant and vehicle marshaller and slinger/signaller, other support workers, and traffic marshal roles

identify and maintain personal protective equipment (PPE) appropriate for plant and vehicle marshaller use

*Delivery to include:*

- what PPE should be worn/used for plant and vehicle marshaller operations and include the following: suitable safety boots, ear defenders, face/eye protection, dust mask, suitable gloves, overalls, hard hat, protective clothing etc.
- appropriate use of local exhaust ventilation (LEV), i.e. in confined spaces
- why weather conditions including heat and cold can determine what PPE is worn and the personal effects of incorrect equipment

*Assessment criteria:*

- describe what forms of PPE and RPE must be worn for site operations
- explain why PPE and RPE must be worn for site operations
- give an example of when use of LEV would be appropriate
- state how severe weather can affect safety and health with insufficient equipment

interpret the given information relating to the work and resources when controlling plant and vehicular movement on construction sites

*Delivery to include:*

- organisational quality requirements
- the nature and purpose of vehicles reporting to the site, against delivery schedules if appropriate
- awareness of methods of setting out pedestrian control systems
- delivery schedules, traffic management plans, site procedures, specifications, schedules, method statements, risk assessments and manufacturers' information
- official guidance and current regulations associated with controlling vehicular traffic on construction sites

*Assessment criteria:*

- identify and follow the organisational quality requirements
- describe the nature and purpose of vehicles reporting to the site, against delivery schedules if appropriate
- identify the appropriate method of setting out pedestrian control systems

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- extract relevant information from delivery schedules, traffic management plans, site procedures, specifications, schedules, method statements, risk assessments and manufacturers' information
- identify the official guidance and current regulations associated with controlling vehicular traffic on construction sites

conduct all necessary safety checks at the work area including stop blocks and tipping areas

### *Delivery to include:*

- appropriate methods of setting out traffic control system
- site, location, conditions, and surroundings for safe and efficient plant and vehicle movement
- hazards and safety checks including preparing restricted zone/s, identifying any overhead hazards
- actions required for emergency situations
- the importance of the area being appropriate for the tasks, clear of hazards with an agreed restricted zone preventing unauthorised entry
- safety checks that must be carried out to ensure that the work area is clear of hazards
- appropriate communication requirements and methods
- requirements for sufficient manoeuvring area
- visual checks of the ground conditions to support vehicles/plant and maintain stability
- procedures for directing vehicles/plant when mounting or dismounting raised kerbed areas
- working in hours of darkness and lighting requirements
- monitoring and maintaining all traffic management equipment and sundries
- the needs of other occupations associated with controlling plant/vehicular movement on construction sites

### *Assessment criteria:*

- implement traffic/pedestrian control measures - *this should be observed during practical assessment*
- assess site, location, conditions, and surroundings for safe and efficient vehicle movement - *this should be observed during practical assessment*
- identify hazards and complete safety checks including preparation of restricted zone/s, and identifying any proximity hazards - *this should be observed during practical assessment*
- describe the actions required for emergency situations
- carry out safety checks and ensure the area is appropriate for the tasks, clear of hazards with an agreed restricted zone preventing unauthorised entry - *this should be observed during practical assessment*
- agree communication requirements and methods with vehicle/plant operators and support workers
- describe requirements for sufficient manoeuvring area
- explain the need to confirm that ground conditions to support plant/vehicles and maintain stability are suitable
- carry out procedures for directing vehicles/plant when mounting or dismounting raised kerbed areas - *this should be observed during practical assessment*

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- describe lighting requirements for working in hours of darkness
- describe the importance of monitoring and maintaining all traffic management equipment and sundries
- describe the needs of other occupations associated with controlling vehicular movement on construction sites

explain actions required for emergency procedures

*Delivery to include:*

- emergency procedures
- types of emergencies to include personal injury, environmental, equipment damage, plant damage, fire
- reporting and recording any incidents

*Assessment criteria:*

- explain the actions required in an emergency
- explain incident reporting and recording procedures

set up a restricted zone for loading and unloading

*Delivery to include:*

- loading and unloading requirements
- segregation between vehicles and pedestrians
- proximity hazards
- safe systems of work
- control of entry/exit of the restricted zone

*Assessment criteria:*

- set up a restricted zone for loading and unloading - *this should be observed during practical assessment*
- identify proximity hazards - *this should be observed during practical assessment*
- demonstrate control of entry/exit of the restricted zone - *this should be observed during practical assessment*

*Assessment requirements:*

- practical assessment must include separation between plant/vehicles and pedestrians

identify requirements for the type of vehicle/plant to be guided

*Delivery to include:*

- consider: site conditions, weather, location, communication
- allowable space
- the need for additional marshallers, or support workers
- the need to stop other works in the area

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## Plant and vehicle marshaller (Novice)

- additional needs for tracked vehicles/plant
- the need to clean to avoid cross contamination

*Assessment criteria:*

- discuss site conditions, weather, location, and methods of communication
- describe and indicate allowable space
- discuss the need for when additional marshallers, or support workers would be required
- explain the need to stop other works in the area
- describe any additional needs for tracked vehicles/plant
- explain the need to clean vehicles/plant exiting the area to avoid cross contamination

use signs and signals, approved hand signals, and different forms of communication

*Delivery to include:*

- current industry recognised communication methods
- communicating using hand signals, hand signalling equipment in line with published guidance material
- agree safe and suitable methods of signalling and communication (hand, radio, oral and visual)

*Assessment criteria:*

- outline the current industry recognised communication methods
- direct plant and vehicle movement using hand signals, hand signalling equipment (lights, wands, fluorescent gloves, flags) and electronic communication equipment (loud hailers, radios) - *this should be observed during practical assessment*

guide vehicles and plant in a forward and reverse direction including restricted spaces and “blind areas” safely and efficiently

*Delivery to include:*

- safe spaces for the plant and vehicle marshaller
- direct and manoeuvre plant/vehicles around the site for loading, unloading, or parking
- blind-spots, potential crush zones and other limitations to operator visibility

*Assessment criteria:*

- identify safe spaces for the plant and vehicle marshaller
- direct and manoeuvre vehicles around the site for loading, unloading, or parking - *this should be observed during practical assessment*
- identify blind-spots, potential crush zones and other limitations to operator visibility - *this should be observed during practical assessment*

*Assessment requirements:*

- practical assessment must include:

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- guiding vehicles in both a forward and reverse direction
- restricted spaces and “blind areas”

direct and guide the movement of vehicles and plant to several types of location using different methods of communication

*Delivery to include:*

- communication methods including hand, radio, oral and visual
- use of communication methods including hand, oral and visual

*Assessment criteria:*

- direct and guide the movement of vehicles and plant to several types of location using different methods of communication - *this should be observed during practical assessment*
- communicate using hand signals, hand signalling equipment (lights, wands, fluorescent gloves, flags) and electronic communication equipment (loud hailers, radios) - *this should be observed during practical assessment*

*Assessment requirements:*

- practical assessment must include:
  - guiding the movement of vehicles and plant to several different types of location
  - use of several different types of communication
  - tracked and wheeled plant/vehicles

explain environmental considerations

*Delivery to include:*

- health and social reasons to reduce machine emissions
- government industry zero emission initiatives
- air quality and the component gases of air
- how engine emissions affect air quality and the effects on human and environmental wellbeing
- minimising engine usage
- appropriate disposal of waste
- spillage procedures

*Assessment criteria:*

- explain the health and social reasons for reducing machine emissions
- discuss government industry zero emission initiatives
- list two or more effects on human and environmental wellbeing as a result of engine emissions
- identify measures to reduce emissions on site
- explain appropriate disposal of waste
- explain spillage procedures

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## Plant and vehicle marshaller (Novice)

carry out all end of work procedures

*Delivery to include:*

- procedures including replacement of barriers and all segregation equipment
- maintain the working area
- reporting observations for improvement

*Assessment criteria:*

- explain how to maintain the working area
- explain the benefits of reporting observations for improvement
- explain and demonstrate procedures to be adopted including replacement of barriers and all segregation equipment - *this should be observed during practical assessment*
- explain how to maintain the working area
- explain the benefits of reporting observations for improvement