Training Standard

Title	Plant and vehicle marshaller (novice)
Duration	**Minimum** **10 hours including assessment time** 1 learner. 1 trainer. 1 machine **14 hours including assessment time** 2 learners.1 trainer. 1 machine **17 hours including assessment time** 3 learners.1 trainer. 1 machine **21 hours including assessment time** 4 learners. 1 trainer. 1 machine The maximum number of learners is four per group, with a maximum number of one machine per group, all learning outcomes **must** be covered by each learner. Trainers must ensure all learners get equal and sufficient practical engagement time. *The duration stated in the training standard equals the minimum length of time the course and assessments should take to be completed based on the ratios above. How this is organised is at the discretion of the training provider.*
Learners pre-requisites	The learner does not hold a current industry recognised card within the plant category and/or has limited or no demonstrable practical experience of plant and vehicle marshalling in a construction environment. Experience of working on site and a basic knowledge of construction terminology would be beneficial.
Purpose/ scope	The purpose and scope of this standard is to provide the learner with the knowledge and skills to support the following: • role and responsibilities of the plant and vehicle marshaller • legal obligations related to managing vehicle movements on site • ensuring effective pedestrian segregation • the use of recognised hand signals and other methods of communication • planning and controlling for safety of vehicle movement • risk assessment of the working area • this does not include bringing vehicles and plant onto site
Occupational relevance	Training delivered against this standard would be relevant to the following occupational group(s): • operative and craft • supervision • management and leadership

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Instruction/ supervision	As a minimum, course trainers must be able to demonstrate that, in relation to this standard, they have: Essential: • either a) a current card issued by one of the CSCS partner plant schemes at instructor/trainer/assessor level bearing the category of plant and vehicle marshaller or b) a current card issued by one of the CSCS partner plant schemes at operator level bearing the category of plant and vehicle marshaller • Level 3 Award in Education and Training or equivalent qualification listed in Appendix 3 of the Requirements for Approved Training Organisations • health and safety qualification at or equivalent to construction site management level, examples of which can be found in Appendix 6 of the Requirements for Approved Training Organisations • in addition to the required qualifications, the trainer must be able to demonstrate occupational experience relating to the training they are delivering. This can be demonstrated with a minimum of 1 years' site experience. Desirable: • SCQF Level 5/NVQ Level 2 Plant Operations in the specific category being trained • Level 3 Certificate in Assessing Vocational Achievement
Delivery	Training and assessment may be delivered in an on or off-site environment. Where training and assessment takes place within a working construction site environment, training must be segregated from productive work within a prescribed training area, which has been risk assessed and has appropriate control measures in place as required by current legislation and regulations. All equipment required for the training must be set aside specifically for the training session and be available for the entire training duration. Equipment is not to be shared with the working construction site. Welfare facilities must be provided wherever training and assessment takes place, and this should meet relevant legislation. All materials and equipment must be of a suitable quality and quantity for learners to achieve the learning outcomes delivery and assessment criteria, and must comply with relevant legislation, regulations and industry agreed requirements.

	The class size and learner/trainer ratio must allow training to be delivered in a safe manner and enable learners to achieve the learning outcomes. Practical engagement can include seat time, any associated practical checks of the machine e.g pre-start checks, and observation time. Irrespective of the number of learners, effective learning must be maintained for all learners. Equal and sufficient practical engagement needs to be considered. The following training delivery methods may be used in the delivery of this standard: • face to face learning environment (such as a classroom/workshop/site office) for theoretical learning & assessment • on or off the job site environment for practical learning and assessment • simulator for practical training *note – if a simulator is used, it can only comprise of a total of 20% of overall practical training and not used in any assessment.*
Assessment	For the successful completion of training, learners must complete an end of course practical assessment and knowledge test that has a clear pass or fail criteria as set out by the card scheme. The marking criteria must effectively measure every aspect of each learning outcome and additional guidance for training and assessment. Assessment must adhere to all points on the CITB Requirements for Approved Training Organisations including Appendix 6 which provides further guidance for assessment.
Quality assurance	**Recognised standard** CITB will gain assurance through the Recognised Organisations' quality arrangements. Approved Training Organisations' will be required to supply confirmation of approval (centre approval and scheme approval) with the related Recognised Organisations' awarding organisation or body. In most cases this will be an approval certificate provided by the Recognised Organisations' awarding organisation or body, listing the routes, qualifications and categories they are approved to deliver. In addition, a copy of the most recent external quality assurance monitoring report will be required, relating to the standard that you wish to be approved for. This information will be reviewed by CITB's quality assurance team. Approval will be subject to the required Recognised Organisations' documentation being supplied by you. As part of the quality assurance checks, CITB may confirm the accuracy of documentation with the issuing organisation.

	Please refer to the Requirements for Approved Training Organisations Appendix 6 for further guidance on quality assurance.

Renewal	**Classification**
☒ There are no mandatory renewal or recommended refresher requirements for this standard.	☒ Lifetime *(Please note standards using this classification will only be grant aided once per learner)*
Keywords	*Vehicle marshaller, plant marshaller*
Approval date	*October 2024*
Review cycle	On request or 5 years from approval date.

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 marshallers 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 marshallers, 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 *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
- 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*
- 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 • 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:
  - 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

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

Additional information about this standard

The Management of Health and Safety at Work Regulations 1999
https://www.legislation.gov.uk/uksi/1999/3242/contents/made

Health and Safety at Work Act 1974
https://www.hse.gov.uk/legislation/hswa.htm

The Construction (Design and Management) Regulations 2015
https://www.hse.gov.uk/construction/cdm/2015/index.htm

Provision and Use of Work Equipment Regulations 1998 (PUWER)
https://www.hse.gov.uk/pubns/books/puwer.htm

A guide to workplace transport safety HSG 136 - HSE (Health & Safety Executive) (Health & Safety Executive)
https://www.hse.gov.uk/pubns/books/hsg136.htm

Safety signs and signals. The Health and Safety Regulations 1996
https://www.hse.gov.uk/pubns/books/l64.htm

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The Work at Height Regulations 2005 https://www.hse.gov.uk/work-at-height/index.htm Where EU legislation is listed this should be followed unless superseded by updated legislation, as result of (but not limited to) Brexit.
Related standards