

Training Standard

A73 Plant and Vehicle Marshaller



Title	Plant and Vehicle Marshaller A73 Novice and Experienced
<p>Novice Durations</p>	<p><u>Novice:</u> Total Duration of Training (excluding testing):</p> <ul style="list-style-type: none"> • 1 Person – 9 hours • 2 Persons – 11 hours • 3 Persons – 13 hours <p>Minimum Practical Engagement Time (per person):</p> <ul style="list-style-type: none"> • 2 hours <p>Instructor: Candidate: Machine Ratio's</p> <ul style="list-style-type: none"> • 1 Instructor: 3 Candidates: 1 Machine <p>Delegates must cover all learning outcomes of the standard in full. Note: <i>The total duration must be met along with the minimum seat time per individual, the theory time can be flexed based on the needs of the delegates where some may need more practical time.</i></p>
<p>Experienced Durations</p>	<p><u>Experienced:</u> Total Duration of Training (excluding testing):</p> <ul style="list-style-type: none"> • 1 Person – 7 hours • 2 Persons – 7 hours • 3 Persons – 7 hours <p>Minimum Practical Engagement Time (per person):</p> <ul style="list-style-type: none"> • Flexible <p>Instructor: Candidate: Machine Ratio's</p> <ul style="list-style-type: none"> • 1 Instructor: 3 Candidates: 1 Machine <p>Delegates must cover all learning outcomes of the standard in full. Note: <i>The total duration must be met along with the minimum seat time per individual, the theory time can be flexed based on the needs of the delegates where some may need more practical time.</i></p>
<p>Delegates pre-requisites</p>	<p>Profiling: The trainer will demonstrate and document their decisions for choosing either the Novice or Experienced route based on the delegates knowledge and skills through documented profiling.</p> <p>Novice: The Novice training course is for candidates who have limited or no demonstrable practical experience of operating the category of plant in a construction environment.</p> <p>Experienced: The Experienced training course is for candidates who hold a current industry recognised red card within the plant category or has equivalent experience.</p>

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Purpose/ Scope	<p>The Purpose and Scope of this standard is to provide the learner with knowledge and skills to support the following:</p> <ul style="list-style-type: none"> • 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	<p>Training delivered against this standard would be relevant to the following occupational group(s):</p> <ul style="list-style-type: none"> • Operative and craft.
Instruction/ supervision	<p>As a minimum, course trainers must be able to demonstrate that, in relation to this standard, they have:</p> <p>Essential:</p> <ul style="list-style-type: none"> • Either <ul style="list-style-type: none"> a) A current card issued by one of the CPCS 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 CPCS 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 such as: <ul style="list-style-type: none"> – Site Safety Plus Site Management Safety Training Scheme (SMSTS) – Site Safety Plus Site Supervision Safety Training Scheme (SSSTS) – IOSH Managing Safely in Construction – IOSH Safety, Health & Environment for Construction Site Managers – 5-day CISRS Managers course – 5-day CCDO Demolition Managers course and end test – 5-day NPORS Construction Site Safety Manager. • In addition to the required qualifications, the trainer must be able to demonstrate ‘operational’ experience relating to the training they are delivering. This can be demonstrated with a minimum of 1 years’ experience.

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	<p>Desirable:</p> <ul style="list-style-type: none"> • SCQF Level 5/NVQ Level 2 Plant Operations in the specific category being trained • Level 3 Certificate in Assessing Vocational Achievement
<p>Delivery & Resources</p>	<p>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.</p> <p>Welfare facilities must be provided wherever training and assessment takes place, and this should meet relevant legislation.</p> <p>All materials and equipment must be of a suitable quality and quantity for delegates to achieve the learning outcomes delivery and assessment criteria, and must comply with relevant legislation, regulations and industry agreed requirements.</p> <p>The class size and delegate/trainer ratio must allow training to be delivered in a safe manner and enable delegates to achieve the learning outcomes. This must not exceed 3 delegates: 1 machine: 1 trainer</p> <p>Irrespective of the number of delegates, effective learning must be maintained for all delegates.</p> <p>The following training delivery methods may be used in the delivery of this standard:</p> <ul style="list-style-type: none"> • Face to face learning environment (such as a classroom/workshop/site office) for theoretical learning and assessment • On or off the job site environment for practical learning and assessment • Simulator for practical training. <p><i>Note – if a simulator is used, it can only comprise of a total of 20% of overall practical training and must not be used in any assessment.</i></p> <p>This standard is considered to contain 70% or more practical training.</p>
<p>Assessment</p>	<p>For the successful completion of training, candidates 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.</p> <p>The test used must be the standard CPCS Theory and Practical Test.</p>
<p>Quality Assurance</p>	<p>CPCS will quality assure against this standard and ensure that all Learning Outcomes have been met. The centre must retain evidence that the learning outcomes are referenced and achieved. This must be held by the training centre for a minimum of six years.</p> <p>CPCS will undertake un-announced or announced quality assurance visits of the training to ensure compliance with the Scheme of Works and the requirements of the Tester and Trainer Scheme Booklet.</p>

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	<p>To ensure that compliance checks are effective, NOCN Job Cards Quality Assurance personnel must be given unrestricted access to all activities associated with the delivery of the Training Standards.</p> <p>Further quality assurance requirements are set out in the Test Centre Scheme Booklet.</p>
Approval Date	<i>1st Jan 2023</i>
Renewal	<i>There are no mandatory renewal or recommended refresher requirements for this standard</i>
Review Cycle	Lifetime (Please note standards using this classification will only be grant aided once per delegate)

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Learning outcomes <i>Delivery to include and the candidate will be able to:</i>	Additional guidance to support learning outcome <i>Training Content to contain the following as a minimum:</i>	Assessment Criteria
Explain the factors that help maintain a safe working environment in the construction industry, and their responsibilities as a plant and vehicle marshaller		
<ul style="list-style-type: none"> • 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), HSG46 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 obligations, legal obligations, and environmental obligations • Reporting structures, the importance of effective communication on site 	<ul style="list-style-type: none"> • Industry type • Sector contribution. • Actions required for hazards: <ol style="list-style-type: none"> 1. <i>Noise</i> 2. <i>Vibration</i> 3. <i>Underground and Overhead Services.</i> • Safe working practices. • Effects of hazards: <ol style="list-style-type: none"> 1. <i>Lost time</i> 2. <i>Lost income</i> 3. <i>Expense for the employer</i> 4. <i>Fines</i> 5. <i>Custodial sentences.</i> • Legislation, Regulations and Guidance: <ol style="list-style-type: none"> 1. <i>Health and Safety at Work Act</i> 2. <i>Provision and Use of Work Equipment Regulations (PUWER)</i> 3. <i>Management of Health and Safety of Work (MHSW) Regulations</i> 4. <i>Construction (Design and Management) Regulations</i> 5. <i>Vibration at Work Regulations</i> 6. <i>Road Traffic Act</i> 7. <i>HSG114</i> 8. <i>HSG46.</i> • Risk Assessments, Method Statements and Permit to Work • Social Responsibilities • Environmental issues 	<ul style="list-style-type: none"> • 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.

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<ul style="list-style-type: none"> (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. 	<ul style="list-style-type: none"> • Reporting structures • Operator Role • Communication with colleagues/ management/ other trades • Customer/ Client needs • Accident Statistics. 	
Identify the roles and responsibilities of the plant and vehicle marshaller		
<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • A plant and vehicle marshal is anyone who has been trained and appointed to control the movement of plant and vehicles on site • Guiding drivers and operators of vehicle and mobile plant • Upholding the control measures for the work activities and environment • Utilising their understanding of the risk assessment • Adhering to the training and preparation that they and the driver will receive for operations • Using an agreed and clear system of signalling to direct the driver or operator • Keeping the area free from others while operations are underway • A Marshaller has no legal right to control vehicle(s) on a public highway for which the road traffic act applies • A Marshaller can not guide or stop Highway traffic • The only time it may be permissible is if you have full Chapter Eight, signing, lighting and guarding and hold 	<ul style="list-style-type: none"> • 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.

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	the appropriate New Roads and Street Works Training/ Certification.	
Identify and maintain personal protective equipment (PPE) appropriate for plant and vehicle marshaller use		
<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Head protection • Foot protection • High-visibility clothing • Weather-appropriate clothing • Hearing protection • Eye protection • Gloves • Respiratory protective equipment. <p>Local exhaust ventilation (LEV):</p> <ul style="list-style-type: none"> • Pre-use checks and regular maintenance • Defects in local exhaust ventilation systems must be reported and promptly rectified. <p>Weather conditions including heat and cold:</p> <ul style="list-style-type: none"> • Supplying suitable PPE: <ol style="list-style-type: none"> 1. <i>Appropriate for the risks involved and the conditions of exposure</i> 2. <i>It takes account of the ergonomic requirements and state of health of the user</i> 	<ul style="list-style-type: none"> • 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.

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	<ol style="list-style-type: none"> 3. <i>It can fit the wearer properly</i> 4. <i>Effectively prevents or adequately controls exposure to risk</i> 5. <i>Complies with any relevant UK or European Regulation or Directive.</i> 	
Interpret the given information relating to the work and resources when controlling plant and vehicular movement on construction sites		
<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Traffic Management Plan: <ol style="list-style-type: none"> 1. <i>Pedestrian and vehicles can move safely and without risks to health</i> 2. <i>Sufficient traffic routes, suitable for the vehicle using them</i> 3. <i>There is sufficient segregation between pedestrians and moving vehicles, but where this is not reasonably practicable:</i> <ul style="list-style-type: none"> - <i>Other means of protection are provided</i> - <i>A means of warning pedestrians of the approach of vehicles, where the pedestrians would otherwise be at risk, is provided.</i> 4. <i>That (vehicle) loading bays have one exit for the exclusive use of pedestrians</i> 5. <i>Appropriate signs are erected in the interests of health and safety</i> 6. <i>Steps are taken to prevent the unintentional movement of any vehicle</i> 	<ul style="list-style-type: none"> • 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.

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	<p>7. <i>Each vehicle must be operated in a safe manner with its load arranged securely</i></p> <p>8. <i>Every vehicle is fitted with a means of warning people who may be at risk when the vehicle is moving.</i></p> <ul style="list-style-type: none"> • Different vehicle types and sizes – height, weight, length, width, tracked, wheeled and articulated • Access and determine the movement of loads, including unloading, discharging and loading requirements • Sufficient Method Statements and Risk Assessments in place relating to traffic management (Management of Health and Safety at Work Regulations) • Construction (Design and Management) Regulations: <ol style="list-style-type: none"> 1. <i>Principle contractors' responsibility to manage plant/ vehicle movements.</i> 	
Conduct all necessary safety checks at the work area including stop blocks and tipping areas		
<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Minimise risk to pedestrians by providing separate routes and entrances for vehicle and pedestrians • Ensure site entrances and exits minimise traffic hazards on public roads • Any traffic route must not be so uneven, potholed, sloped or slippery that any person using it is exposed to a risk to their safety • Edge protection, overhead cables identified 	<ul style="list-style-type: none"> • Describe the actions required for emergency situations • Agree communication requirements and methods with vehicle/plant operators and support workers • Describe requirements for sufficient manoeuvring area

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<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Provide a car park for privately owned vehicles, preferably accessed directly from a public road • Parking areas should be clearly signposted, firm, level or with an acceptable gradient, well lit and not slippery • Ensure that site offices and other facilities are connected to the parking areas or pedestrian entrance • Ensure safe, designated pedestrian routes are available to all work locations and are maintained as work progresses • Ensure turning areas are available if space is tight and try to avoid the need for reversing on site • Roads should be wide enough for the vehicles using them • Additional control measures (such as mirrors, stop signs or signals) could be used for sharp or blind bends • Wheel wash and/ or a road sweeper to keep site and public roads clear of mud and other debris • Access routes should be on an even surface, signposted and have adequate lighting: <ol style="list-style-type: none"> 1. <i>Additional lighting (towers and lighting sets)</i> 2. <i>Additional PPE e.g. Full length arm and legs with adequate reflective strips</i> 	<ul style="list-style-type: none"> • Explain the need to confirm that ground conditions to support plant/vehicles and maintain stability are suitable • 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. <p>The following should be observed during the practical assessment:</p> <ul style="list-style-type: none"> • Implement traffic/pedestrian control measures • Assess site, location, conditions, and surroundings for safe and efficient vehicle movement • Identify hazards and complete safety checks including preparation of restricted zone/s, and identifying any proximity hazards • Carry out safety checks and ensure the area is appropriate for the tasks, clear of hazards with an agreed restricted zone preventing unauthorised entry • Carry out procedures for directing vehicles/plant when mounting or dismounting raised kerbed areas.

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	<p>3. <i>If visibility is not sufficient stop work and report to your site supervisor/ manager.</i></p> <ul style="list-style-type: none"> • Plant Interface Zones: <ol style="list-style-type: none"> 1. <i>Yellow Zone – All personnel involved with the plant operation must remain within this zone to maintain visual contact with the plant operator</i> 2. <i>Amber Zone – Entry prohibited until positive visual contact is made with the plant operator and the machine is immobilised</i> 3. <i>Red zone – Entry prohibited unless the machine is completely isolated with the machine immobilised and the engine switched off.</i> • Emergency plans: <ol style="list-style-type: none"> 1. <i>From the start of any project, plans must be put in place for the safe evacuation of the site</i> 2. <i>Emergency escape routes must be identified and labelled with appropriate signs and communicated to all on site</i> 3. <i>A suitable assembly point should be identified.</i> • Temporary ramps: <ol style="list-style-type: none"> 1. <i>Be strong enough to support the anticipated uses and loads</i> 2. <i>Be strong enough so that it doesn't deflect when in use</i> 3. <i>Be secure so it will not move during use</i> 	

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	<ol style="list-style-type: none"> 4. <i>Be highlighting in yellow (whole ramp or all edges)</i> 5. <i>Have a slip resistant surface suitable for wet conditions</i> 6. <i>Be wide enough for the intended use.</i> <ul style="list-style-type: none"> • Communication methods: <ol style="list-style-type: none"> 1. <i>Hand signals</i> 2. <i>Hand signalling equipment</i> 3. <i>Verbal/ electronic communication equipment.</i> 	
Explain actions required for emergency procedures		
<ul style="list-style-type: none"> • Emergency procedures • Types of emergencies to include personal injury, environmental, equipment damage, plant damage, fire • Reporting and recording any incidents. 	<ul style="list-style-type: none"> • Emergency plans: <ol style="list-style-type: none"> 1. <i>Plans must be in place for the safe evacuation of the site</i> 2. <i>Emergency escape routes must be identified and labelled with appropriate signs and communicated to all on site</i> 3. <i>A suitable assembly point should be identified</i> 4. <i>Display information about actions to be taken in an emergency.</i> • Contact with the emergency services: <ol style="list-style-type: none"> 1. <i>Ensure the local emergency services are informed about the site's location</i> 2. <i>Provide details on the means of access and any specialist activities being undertaken.</i> • First Aid: 	<ul style="list-style-type: none"> • Explain the actions required in an emergency • Explain incident reporting and recording procedures.

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	<ol style="list-style-type: none"> 1. <i>Provide adequate first-aid equipment and facilities appropriate to the type of work or operations undertaken</i> 2. <i>Appoint a sufficient number of suitable and trained people to render first aid</i> 3. <i>If inform everyone on site of the first-aid arrangements, including location of first-aid equipment and personnel.</i> <ul style="list-style-type: none"> • <i>Pollution incident response plans:</i> <ol style="list-style-type: none"> 1. <i>Emergency contact numbers</i> 2. <i>Responsibilities of site personnel</i> 3. <i>Awareness of environmental issues via communication and training</i> 4. <i>The location of drainage systems or sewers and any arrangements for their protection</i> 5. <i>The use of containment equipment</i> 6. <i>The location of spill kits, including designed refuelling areas.</i> • <i>Reporting:</i> <ol style="list-style-type: none"> 1. <i>Report any defects or potential hazards in equipment</i> 2. <i>Report any work situation that might present a danger</i> 3. <i>Report all accidents that cause any injury.</i> 	
Set up a restricted zone for loading and unloading		
<ul style="list-style-type: none"> • Loading and unloading requirements 	<ul style="list-style-type: none"> • Loading and Unloading: 	The following should be observed during the practical assessment:

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<ul style="list-style-type: none"> • Segregation between vehicles and pedestrians • Proximity hazards • Safe systems of work • Control of entry/exit of the restricted zone. 	<ol style="list-style-type: none"> 1. <i>Traffic routes must be organised to protect people from injury from vehicles and suitable for the number of vehicles and persons using them</i> 2. <i>Traffic routes must be properly maintained, suitably signed and regularly inspected</i> 3. <i>Where it is unsafe for pedestrians to use gates intended for use by vehicles, separate pedestrian gates must be provided, marked and kept free of obstruction.</i> <ul style="list-style-type: none"> • Materials storage and lay-down areas: <ol style="list-style-type: none"> 1. <i>Develop a materials delivery schedule and ensure that it is communicated to all relevant personnel</i> 2. <i>Ensure all contractors and suppliers are aware of any delivery issues or restrictions specific to the site or surrounding area</i> 3. <i>Make provision for designated and safe storage areas to ensure site and access roads are kept clear of obstructions</i> 4. <i>Make provision for safe and secure storage of flammable and polluting substances</i> 5. <i>Make sure pallets of materials are stored in stable stacks with a safe limit designed for each different material</i> 6. <i>Consider what access is needed to reach these materials and what lifting equipment may be required.</i> • Proximity hazards: 	<ul style="list-style-type: none"> • Set up a restricted zone for loading and unloading • Identify proximity hazards • Demonstrate control of entry/exit of the restricted zone. <p><i>Assessment requirements:</i></p> <ul style="list-style-type: none"> • Practical assessment must include separation between plant/vehicles and pedestrians.

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	<ol style="list-style-type: none"> 1. <i>Temporary works</i> 2. <i>Pedestrian and traffic routes</i> 3. <i>External and internal site access routes and housekeeping</i> 4. <i>Site lighting</i> 5. <i>Material unloading and loading</i> 6. <i>Materials storage</i> 7. <i>Utility services</i> 8. <i>Work at height</i> 9. <i>Excavations</i> 10. <i>Environmental considerations</i> 11. <i>Waste storage and disposal.</i> <ul style="list-style-type: none"> • Restricted zone: <ol style="list-style-type: none"> 1. <i>Set out warning signs and barriers to keep pedestrians and other vehicles separate</i> 2. <i>The movement of vehicles, plant and machinery, to include own position of safety, visibility, ground conditions and features, proximity hazards and weight limits.</i> 	
Identify requirements for the type of vehicle/ plant to be guided		
<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Ground conditions should be stable and sufficiently level for the operations being carried out and the equipment being used • Outdoor workplaces must be arranged to provide adequate protection against adverse weather, taking into account usage and protective clothing or equipment provided 	<ul style="list-style-type: none"> • 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

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<ul style="list-style-type: none"> • Additional needs for tracked vehicles/plant • The need to clean to avoid cross contamination. 	<ul style="list-style-type: none"> • Hand signals, hand signalling equipment, verbal/ electronic communication equipment • Pedestrian routes should be established on site to facilitate safe pedestrian movement and access to work areas • Pedestrian routes should be segregated from mobile plant and vehicles, either by a safe distance or by physical barriers. • Controlling the risk for tracked vehicles/ plant: <ol style="list-style-type: none"> 1. <i>Exclusion – provision of suitable barriers, bunting or fencing can be used to create and maintain a pedestrian exclusion area</i> 2. <i>Clearance – when slewing in a confined area the selection of plant with minimal tail swing is preferred. Clearance of over 0.5m needs to be maintained</i> 3. <i>Visibility – adequate visibility aids to ensure drivers can see areas where people may be at risk from the operation of the machine</i> 4. <i>Plant and vehicle marshaller – should be provided in a safe position to direct machine operation and any pedestrian movements.</i> • Wheel wash and/ or a road sweeper to keep site and public roads clear of mud and other debris. 	<ul style="list-style-type: none"> • 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		
<ul style="list-style-type: none"> • Current industry recognised communication methods 	<ul style="list-style-type: none"> • Signallers used to direct pedestrian and vehicle movements need to be competent in the methods used to ensure their own and other people's safety 	<ul style="list-style-type: none"> • Outline the current industry recognised communication methods.

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<ul style="list-style-type: none"> • 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). 	<ul style="list-style-type: none"> • Where hand signals are used, ensure they are consistent with the Code of Signals in Schedule 1 of The Health and Safety (Safety Signs and Signals) Regulations • The persons involved must have a good knowledge of the language used so that they are able to pronounce and understand the spoken message correctly and consequently behave in a way which is appropriate to health and/ or safety. • If verbal communication is used instead of, or together with, gestures, code words should be used such as: <ol style="list-style-type: none"> 1. <i>Start – to indicate the start of a command</i> 2. <i>Stop – to interrupt or end a movement</i> 3. <i>End – to stop an operation</i> 4. <i>Raise – to have a load raised</i> 5. <i>Lower – to have a load lowered</i> 6. <i>Forwards – to be co-ordinated with the corresponding hand signals</i> 7. <i>Backwards – to be co-ordinated with the corresponding hand signals</i> 8. <i>Right – to be co-ordinated with the corresponding hand signals</i> 9. <i>Left – to be co-ordinated with the corresponding hand signals</i> 10. <i>Danger – for an emergency stop</i> 11. <i>Quickly – to speed up a movement for safety reasons.</i> 	<p>The following should be observed during the practical assessment:</p> <ul style="list-style-type: none"> • Direct plant and vehicle movement using hand signals, hand signalling equipment (lights, wands, fluorescent gloves, flags) and electronic communication equipment (loud hailers, radios).

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Learning outcomes <i>Delivery to include and the candidate will be able to:</i>	Additional guidance to support learning outcome <i>Training Content to contain the following as a minimum:</i>	Assessment Criteria
	<ul style="list-style-type: none"> • Hand signals must be precise, simple, expansive, easy to make and to understand, and clearly distinct from other such signals • Where both arms are used at the same time, they must be moved symmetrically and used for giving one sign only • The driver/ operator must be able to recognise the vehicle marshaller without difficulty • The vehicle marshaller is to wear one or more appropriate distinctive items, e.g. a high visibility jacket, helmet, sleeves or armbands, or carry bats • The distinctive items are to be brightly coloured, preferably all of the same colour and for the exclusive use of the vehicle marshaller. • Two Way Radios: <ol style="list-style-type: none"> 1. <i>Agree signals</i> 2. <i>Check there is no interference</i> 3. <i>Agree call signs</i> 4. <i>Check battery condition</i> 5. <i>Stand in a place of safety</i> 6. <i>Where possible maintain sight of driver/ operator.</i> 	
Guide vehicles and plant in a forward and reverse direction including restricted spaces and 'blind areas' safely and efficiently		
<ul style="list-style-type: none"> • Safe spaces for the plant and vehicle marshaller • Direct and manoeuvre plant/vehicles around the site for loading, unloading, or parking 	<ul style="list-style-type: none"> • Traffic Management Plan should cover: <ol style="list-style-type: none"> 1. <i>Traffic routes</i> 2. <i>Site access points</i> 3. <i>Restricted areas</i> 4. <i>Escape routes</i> 	<ul style="list-style-type: none"> • Identify safe spaces for the plant and vehicle marshaller. <p>The following should be observed during the practical assessment:</p>

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Learning outcomes <i>Delivery to include and the candidate will be able to:</i>	Additional guidance to support learning outcome <i>Training Content to contain the following as a minimum:</i>	Assessment Criteria
<ul style="list-style-type: none"> • Blind-spots, potential crush zones and other limitations to operator visibility. 	<ol style="list-style-type: none"> 5. <i>Pedestrian routes</i> 6. <i>One way systems</i> 7. <i>Proximity hazards (overhead cables etc)</i> 8. <i>Refuge areas.</i> <ul style="list-style-type: none"> • Refuge areas should be easily accessible for persons to use and be able to protect the uses from plant movements • Signs and barriers should be suitable for the task, visible and of sufficient strength to protect the area. • Loading/ unloading and storage areas: <ol style="list-style-type: none"> 1. <i>All vehicles being loaded or unloaded will be off the highway and must be on stable, level ground</i> 2. <i>An isolation zone surrounding the vehicle will be necessary in-case of un-stable loads</i> 3. <i>Be located away from pedestrian-only areas and main pedestrian routes</i> 4. <i>Exclude pedestrians so far as reasonably practicable</i> 5. <i>Have one-way systems and safe exit points</i> 6. <i>Have sufficient room for vehicle movements</i> 7. <i>Have adequate fixed lighting, signs and appropriate visibility aids for drivers</i> 8. <i>Check the integrity of load securing equipment and stability of loads, prior to commencement of movements and on arrival, prior to release.</i> • Parking areas: <ol style="list-style-type: none"> 1. <i>Be clearly signposted</i> 	<ul style="list-style-type: none"> • Direct and manoeuvre vehicles around the site for loading, unloading, or parking • Identify blind-spots, potential crush zones and other limitations to operator visibility. <p><i>Assessment requirements:</i></p> <ul style="list-style-type: none"> • Practical assessment must include: <ul style="list-style-type: none"> – Guiding vehicles in both a forward and reverse direction • Restricted spaces and “blind areas”.

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Learning outcomes <i>Delivery to include and the candidate will be able to:</i>	Additional guidance to support learning outcome <i>Training Content to contain the following as a minimum:</i>	Assessment Criteria
	<ol style="list-style-type: none"> 2. <i>Not impede traffic routes</i> 3. <i>Ensure pedestrians and vehicles are kept apart</i> 4. <i>Allow drivers and pedestrians to see clearly</i> 5. <i>Be firm, level and well drained</i> 6. <i>Be well lit, if possible</i> 7. <i>Be as close as possible to where people need to go when they leave their vehicles.</i> <ul style="list-style-type: none"> • Recognise blind-spots: <ol style="list-style-type: none"> 1. <i>Mobile plant operator blind spots</i> 2. <i>Potential crush zones</i> 3. <i>Other limitations to driver visibility.</i> 	
Direct and guide the movement of vehicles and plant to several types of location using different methods of communication		
<ul style="list-style-type: none"> • Communication methods including hand, radio, oral and visual • Use of communication methods including hand, oral and visual. 	<ul style="list-style-type: none"> • Where hand signals are used, ensure they are consistent with the Code of Signals in Schedule 1 of The Health and Safety (Safety Signs and Signals) Regulations • The persons involved must have a good knowledge of the language used so that they are able to pronounce and understand the spoken message correctly and consequently behave in a way which is appropriate to health and/ or safety. • If verbal communication is used instead of, or together with, gestures, code words should be used such as: <ol style="list-style-type: none"> 1. <i>Start – to indicate the start of a command</i> 2. <i>Stop – to interrupt or end a movement</i> 3. <i>End – to stop an operation</i> 	<p>The following should be observed during the practical assessment:</p> <ul style="list-style-type: none"> • Direct and guide the movement of vehicles and plant to several types of location using different methods of communication • Communicate using hand signals, hand signalling equipment (lights, wands, fluorescent gloves, flags) and electronic communication equipment (loud hailers, radios). <p><i>Assessment requirements:</i></p> <ul style="list-style-type: none"> • Practical assessment must include: <ul style="list-style-type: none"> - Guiding the movement of vehicles and plant to several different types of location

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Learning outcomes <i>Delivery to include and the candidate will be able to:</i>	Additional guidance to support learning outcome <i>Training Content to contain the following as a minimum:</i>	Assessment Criteria
	<ol style="list-style-type: none"> 4. <i>Raise – to have a load raised</i> 5. <i>Lower – to have a load lowered</i> 6. <i>Forwards – to be co-ordinated with the corresponding hand signals</i> 7. <i>Backwards – to be co-ordinated with the corresponding hand signals</i> 8. <i>Right – to be co-ordinated with the corresponding hand signals</i> 9. <i>Left – to be co-ordinated with the corresponding hand signals</i> 10. <i>Danger – for an emergency stop</i> 11. <i>Quickly – to speed up a movement for safety reasons.</i> <ul style="list-style-type: none"> • Hand signals must be precise, simple, expansive, easy to make and to understand, and clearly distinct from other such signals • Where both arms are used at the same time, they must be moved symmetrically and used for giving one sign only • The driver/ operator must be able to recognise the vehicle marshaller without difficulty • The vehicle marshaller is to wear one or more appropriate distinctive items, e.g. a high visibility jacket, helmet, sleeves or armbands, or carry bats • The distinctive items are to be brightly coloured, preferably all of the same colour and for the exclusive use of the vehicle marshaller. • Two Way Radios: 	<ul style="list-style-type: none"> - Use of several different types of communication. • Tracked and wheeled plant/vehicles.

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Learning outcomes <i>Delivery to include and the candidate will be able to:</i>	Additional guidance to support learning outcome <i>Training Content to contain the following as a minimum:</i>	Assessment Criteria
	<ol style="list-style-type: none"> 1. <i>Agree signals</i> 2. <i>Check there is no interference</i> 3. <i>Agree call signs</i> 4. <i>Check battery condition</i> 5. <i>Stand in a place of safety</i> 6. <i>Where possible maintain sight of driver/ operator.</i> 	
Explain environmental considerations		
<ul style="list-style-type: none"> • 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. 	<p>Air Pollution:</p> <ul style="list-style-type: none"> • Common construction activities that contribute to air pollution include: <ol style="list-style-type: none"> 1. <i>Use of plant and vehicles on site</i> 2. <i>Land clearing and demolition</i> 3. <i>Chemicals.</i> • Consequences of air pollution: <ol style="list-style-type: none"> 1. <i>Employees</i> 2. <i>Local Residents</i> 3. <i>Environmental.</i> <p>Water Pollution:</p> <ul style="list-style-type: none"> • Common construction sources that contribute to air pollution include: <ol style="list-style-type: none"> 1. <i>Diesel and oil</i> 2. <i>Cement</i> 3. <i>Other toxic chemicals.</i> • Consequences of water pollution: <ol style="list-style-type: none"> 1. <i>People</i> 2. <i>Environmental – water contamination.</i> 	<ul style="list-style-type: none"> • 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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Learning outcomes <i>Delivery to include and the candidate will be able to:</i>	Additional guidance to support learning outcome <i>Training Content to contain the following as a minimum:</i>	Assessment Criteria
	<p>Noise Pollution:</p> <ul style="list-style-type: none"> • Effects of noise pollution: <ol style="list-style-type: none"> 1. <i>Potential hearing loss.</i> <p>Pollution Prevention Strategies:</p> <ul style="list-style-type: none"> • Air pollution: <ol style="list-style-type: none"> 1. <i>Adopt hybrid technology</i> 2. <i>Use low sulphur diesel</i> 3. <i>Improve existing equipment</i> 4. <i>Wear appropriate PPE.</i> • Water pollution <ol style="list-style-type: none"> 1. <i>Monitor and improve your management and disposal of site waste</i> 2. <i>Keep materials secure</i> 3. <i>Cover up all drains</i> 4. <i>Keep the road and footpath to the site clean</i> 5. <i>Properly treat any chemical spillages</i> 6. <i>Ensure plant and equipment is properly maintained and operated.</i> • Noise pollution <ol style="list-style-type: none"> 1. <i>Use quiet equipment</i> 2. <i>Schedule work during sociable hours</i> 3. <i>Put acoustic (movable noise) barriers in place</i> 4. <i>Ensure plant and equipment is properly maintained and operated</i> 5. <i>Switch off plant when it's not in use</i> 6. <i>Ensure employees wear the correct PPE.</i> 	
Carry out all end of work procedures		
<ul style="list-style-type: none"> • Procedures including replacement of barriers and all segregation equipment 	<ul style="list-style-type: none"> • Make sure that equipment is maintained in an efficient state, in efficient working order and in good repair 	<ul style="list-style-type: none"> • Explain how to maintain the working area

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Learning outcomes <i>Delivery to include and the candidate will be able to:</i>	Additional guidance to support learning outcome <i>Training Content to contain the following as a minimum:</i>	Assessment Criteria
<ul style="list-style-type: none"> • Maintain the working area • Reporting observations for improvement. 	<ul style="list-style-type: none"> • Carry out inspections of equipment • Maintenance policies should be developed for roadways, footpaths and the infrastructure items such as lighting, barriers, signs and markings. • Effective ways to keep vehicle away from pedestrian areas include: <ol style="list-style-type: none"> 1. <i>Protective barriers</i> 2. <i>Clear markings to set apart vehicle and pedestrians routes</i> 3. <i>Raised kerbs to mark vehicle and pedestrian areas.</i> • Where needed, provide suitable barriers or guards rails: <ol style="list-style-type: none"> 1. <i>At entrances and exits to buildings</i> 2. <i>At the corners of buildings</i> 3. <i>To prevent pedestrians from walking straight on to roads.</i> • Maintain the working area: <ol style="list-style-type: none"> 1. <i>Physical measures, e.g. providing temporary guarding, safe means of access.</i> • Reporting observations: <ol style="list-style-type: none"> 1. <i>Observations helps collect and share information</i> 2. <i>Raising observations allows management to identify issues and update the workforce on the preventative measures or close out actions taken to avoid a similar occurrence.</i> 	<ul style="list-style-type: none"> • Explain the benefits of reporting observations for improvement • Explain how to maintain the working area • Explain the benefits of reporting observations for improvement. <p>The following should be observed during the practical assessment:</p> <ul style="list-style-type: none"> • Explain and demonstrate procedures to be adopted including replacement of barriers and all segregation equipment.

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Additional information about this standard

Emphasis to be placed on the following topics:

- Vehicle movement hierarchy - the hierarchy of vehicle movement planning which establishes that a marshaller is the last line of defence in developing a safe logistics plan for the movement of vehicles.
- Communication between marshaller and driver/operator - establishing communication methods and the procedures for access, egress movement and delivery, and instructions to immediately halt the vehicle if communication of field of vision is lost with the marshaller.
- Prior movement requirements - ensuring the manoeuvring area or track is clear of other machinery and personnel before movements commence.
- Positioning of the marshaller during manoeuvring operations - establishing the path of the manoeuvring plant and vehicle and safe/protected areas and position themselves in a place of safety whilst maintaining an appropriate field of vision with the driver/operator.
- Reversing of plant and vehicles - planning of movements and work area to eliminate or reduce reversing of plant and vehicles.
- Minimum clearances within restricted areas - establishing the minimum clearance required when guiding and assisting plant and vehicles into restricted areas and control/elimination of pedestrians particularly where crush zones are involved.
- Isolation requirements for the approaching of plant and vehicles - ensuring that safety critical operator/driver requirements are followed before the machine is approached e.g. use of safety levers, engine and vehicle immobilised etc. (preparing for movement/communicating).
- Communicating with a plant operator - giving directions when the vision of a clear line of sight is lost by the plant or vehicle operator during manoeuvring, configuring or setting-up operations.

Note: *The listed training content should not be considered exhaustive and subjects may be added to reflect the individuals' working environment.*

The plant and vehicle marshaller will within given areas guide plant and vehicles into and from the working area and into working positions and maintains an exclusion zone during working activities. The duty includes guiding and assisting the operational movement of plant for non-working purposes whilst statically positioned.

Category Duties include:

- To liaise with, communicate, define, provide instructions and guide plant and machinery whilst allowing the safe movement of pedestrians, plant and vehicles.

IMPORTANT: this duty does not involve:

- The attaching and disconnection of slung loads to lifting equipment such as a crane, or the providing signals for the movement of loads
- The giving of working instructions (except in emergencies)
- Assisting in the connection/removal of components and equipment during a machine's work activities
- Rail-connected operations under the scope of machine controller.

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Theory Resource:

- LOLER 1998 Regulations
- HSE GS6
- Specifications books for a range of plant and vehicle types suitable for the sector
- HSE guidance such as: HSG 136/INDG 199 (Workplace Transport Safety)
- L64 Health and Safety (signs and signal regulations 1996)
- HSG 144 Safe Use of Vehicles on Construction Works
- DSA publication - The Highway Code
- CPA Guidance SG 008 (Visibility Aids on Mobile Plant) Site traffic management requirements.

PLUS

- Suitable room for theory training purposes
- Welfare and rest facilities during training.

Measure of this training standard

The candidate is required to pass the following tests;

CPCS Theory Test: Plant and Vehicle Marshaller

- Course Instructors can use the published CPCS Theory Questions during training to confirm that the learner is able to demonstrate the required knowledge understanding and retention to undertake the CPCS Standard Technical Theory Test.

CPCS Practical Test: Plant and Vehicle Marshaller

- Course Instructors can use the published CPCS Practical Test criteria during training to confirm that the learner is able to demonstrate the required practical ability and understanding to undertake the CPCS Standard Technical Practical Test.

Note - Course Instructors can find the current versions of the CPCS Technical Test Theory Questions and CPCS Technical Practical Test criteria via NOCN Job Cards website and are subject to review, ensure you are using the most current version as printed versions are uncontrolled.

www.nocnjobcards.org