NPORS

C133

LEARNING OUTCOMES

PLANT AND VEHICLE MARSHALLER

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LEARNING OUTCOMES

Explain the factors that help maintain a safe working environment in the construction industry, and their responsibilities as a plant and vehicle marshaller	• 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
Identify the roles and responsibilities of the plant and vehicle marshaller	• 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
Identify and maintain personal protective equipment (PPE) appropriate for plant and vehicle marshaller use	• 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
Interpret the given information relating to the work and resources when controlling plant and vehicular movement on construction sites	• 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

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Conduct all necessary safety checks at the work area including stop blocks and tipping areas	• Appropriate methods of setting out traffic control system work area including stop blocks and tipping • Site, location, conditions, and surroundings for safe and efficient plant and vehicle movement areas • 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
Explain actions required for emergency procedures	• Emergency procedures • Types of emergencies to include personal injury, environmental, equipment damage, plant damage, fire • Reporting and recording any incidents
Set up a restricted zone for loading and unloading	• Loading and unloading requirements • Segregation between vehicles and pedestrians • Proximity hazards • Safe systems of work • Control of entry / exit of the restricted zone
Identify requirements for the type of vehicle / plant to be guided	• 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

LEARNING OUTCOMES

Use signs and signals, approved hand signals, and different forms of communication	• 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)
Guide vehicles and plant in a forward and reverse direction including restricted spaces and "blind areas" safely and efficiently	• 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
Direct and guide the movement of vehicles and plant to several types of location using different methods of communication	• Communication methods including hand, radio, oral and visual • Use of communication methods including hand, oral and visual
Explain environmental considerations	• 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
Carry out all end of work procedures	• Procedures including replacement of barriers and all segregation equipment • Maintain the working area • Reporting observations for improvement

**The learning outcomes listed should not be considered in isolation and may be added to in order to accurately reflect the learner's duties and working environment*

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