



Learning Outcomes for N139

Forward Tipping Mini Dumper up to 1 Tonne

| Learning Outcome | Instructor Notes |
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| Have a basic understanding of the industry, the dangers of working in the industry and their responsibilities as an operator | Explain the structure of the course and the need to comply with your instructions at all times <ul style="list-style-type: none"> • Explain that the industry is very dangerous and that only safe working practices will be adopted throughout the course • Personal safety is not just the absence of physical injury, can be affected by noise, vibration and can lead to lost time, lost income, expense for the employer, etc • Explain Health & Safety at Work Act 1974, Restraining systems in accordance with risk assessment, PUWER Regulations, MHSAWA Regulations, CDM Regulations, Vibration at Work Regulations, HSG150, risk assessment, method statements, codes of practice and other relevant legislation • CPA Guidance • Remind learners that operators have moral obligations, legal obligations and environmental obligations • Explain reporting structures, the importance of good communication on site (colleagues, management, and other workers on site) |
| Have a working knowledge of the manufacturer's handbook for the particular machine to be used | Explain the importance of the manufacturer's handbook and that it will be used throughout the course <ul style="list-style-type: none"> • Stress that it has to be used in alliance with all relevant legislation • Explain the dangers and stability issues travelling on inclines, raising the skip and travelling over rough terrain. Explain the dangers and stability issues relating to different types of forward tipping mini dumpers |
| Be able to locate and identify the major components of the machine and explain their functions | Explain the different types of components <ul style="list-style-type: none"> • Explain the function of the components and how they all contribute to the safety and operational integrity of the machine • Explain power units, transmissions, batteries, safety locking devices, fuel tank, guards, types of skips, carrying capacities, steering, braking, tracks, tyres, safety systems etc • Restraining Systems (Safety Critical) |
| Be able to locate and identify key controls and explain their functions | Explain the different controls and their functions <ul style="list-style-type: none"> • Explain how correct and sympathetic use of the controls can ensure safety of the machine and help prolong machine life by reducing wear and tear • Refer to the manufacturer's handbook, codes of practice, decals etc |
| Conduct all pre-operational and running checks in accordance with manufacturer's and legislative requirements | Explain the importance of pre-operational and running checks and legal implications of using a machine without having checked it <ul style="list-style-type: none"> • Go through the sequence of checking, use manufacturer's handbook, check sheet, defect reporting procedure etc |
| Identify and maintain PPE appropriate for the forward tipping mini dumper | Explain that PPE should include the following: Suitable safety boots, ear defenders, face / eye protection, dust mask, suitable gloves, overalls, hard hat, protective clothing etc |



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| Conduct all necessary safety checks at the work area | Explain and demonstrate the following fully: Walk the site and highlight or remove any hazards • Edge protection appropriate size, ground condition etc • Overhead cables, access and egress routes • Turning areas • Confirm that the condition of the site is safe to work in • Report any hazards that cannot be removed • Set out warning signs and barriers, exclusion zones to warn members of the public and to exclude animals |
| Prepare the forward tipping mini dumper for use and operate machinery safely and efficiently | Explain and demonstrate all safety procedures to be adopted including: Correct starting procedure • Correct operating procedure on slopes / inclines • Confined spaces • Identify and report any defects • Correct safe tipping procedure • Centre of gravity • Steering • Correct procedure for adjusting / changing different attachments • Follow all safe working procedures • Visibility, densities of materials • Check electrical safety types of, overhead / underground services • Types of loading vehicles • Machine suitability / capacity • Tipping on slopes • Side tipping • High tipping • Material jams • Projecting loads • Stability with raised skip etc |
| Attachments set correctly ready for operation | Explain and demonstrate procedures to be adopted including: Connecting procedures securing process • Implement, mini dumper, compatibility • Implement stability and security • Guarding • Starting / stopping procedures • Hazards associated with all implements • Remove and secure implements |
| Environmental considerations | Explain and demonstrate procedures to be adopted including: Clear visibility • Communication system – signals etc • Noise • Vibration • Ground contamination • Ground damage • Fuel spills fumes • Flying debris |
| Storage and transport of forward tipping mini dumper implements / attachments | Explain and demonstrate the following: Allow power driven implements to slow down • Check condition of hydraulic hoses – attachments etc • Correct / secure storage of attachments • Refer to manufacturer's handbook |
| Carry out all end of work and shut down procedures | Explain and demonstrate procedures to be adopted including: Shut down procedures and machine security • Clean machine thoroughly after use to avoid corrosion • Facilitate maintenance, prevent personal contamination • Inspect machine for signs of wear and damage |

****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***