



# Learning Outcomes for N204 Forward Tipping Dumper

Learning Outcome	Instructor Notes
<b>Have a basic understanding of the industry, the dangers of working in the industry and their responsibilities as an operator</b>	Explain the structure of the course and the need to comply with your instructions at all times • 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, CDM Regulations, Vibration at Work Regulations, Road Traffic Act, HSG150, BSEN 13510 – ROPS, restraining systems in accordance with risk assessment, risk assessments, method statements, codes of practice and other relevant legislation • 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)
<b>Have a working knowledge of the manufacturer's handbook for the particular machine to be used</b>	Explain the importance of the manufacturer's handbook and that it will be used throughout the course • Stress that it has to be used in alliance with all relevant legislation • Explain travelling on inclines, stability with raised skips, excessive speed
<b>Be able to locate and identify the major components of the machine and explain their functions</b>	Explain the different types of components • Explain the function of the components and how they all contribute to the safety and operational integrity of the machine • Explain power units, transmissions, safety locking devices, fuel tank, guards, types of skips, carrying capacities, steering, braking, oscillating chassis, safety systems etc. • Restraining Systems (Safety Critical)
<b>Be able to locate and identify key controls and explain their functions</b>	Explain the different controls and their functions • 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
<b>Identify and maintain PPE appropriate for the dumper</b>	Explain that PPE should include the following: Suitable safety boots, ear defenders, face / eye protection, dust mask, Fall prevention systems, suitable gloves, overalls, hard hat, protective clothing etc
<b>Conduct all pre-operational and running checks in accordance with manufacturer's and legislative requirements</b>	Explain the importance of pre-operational and running checks and legal implications of using a machine without having checked it • Go through the sequence of checking, use manufacturer's handbook, check sheet, defect reporting procedure etc



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<p><b>Prepare the forward tipping dumper for use and operate machinery safely and efficiently</b></p>	<p>Explain and demonstrate all safety procedures to be adopted including:</p> <ul style="list-style-type: none"> <li>• Correct starting procedure</li> <li>• Mount and dismount the machine</li> <li>• Correct operating procedure on slopes / inclines</li> <li>• Confined spaces</li> <li>• Identify and report any defects</li> <li>• Correct tipping procedure</li> <li>• Side tipping</li> <li>• Centre of gravity</li> <li>• Articulation steering</li> <li>• Correct procedure for adjusting / changing different attachments</li> <li>• Follow all safe working procedures</li> <li>• visibility, densities of materials</li> <li>• Adhere to Road Traffic Act / site - road travel</li> <li>• Check electrical safety / types of, overhead / underground services</li> <li>• Types of loading vehicles</li> <li>• machine suitability / capacity</li> <li>• Tipping procedures moving and static</li> <li>• tipping on slopes</li> <li>• side tipping</li> <li>• high tipping</li> <li>• material jams</li> <li>• projecting loads</li> <li>• Spoil heap security</li> <li>• stability with raised skip etc</li> </ul>
<p><b>Conduct all necessary safety checks at the work area</b></p>	<p>Explain and demonstrate the following fully:</p> <ul style="list-style-type: none"> <li>• Walk the site and highlight or remove any hazards</li> <li>• Edge protection appropriate size, ground condition etc</li> <li>• Overhead cables, access and egress routes</li> <li>• turning areas</li> <li>• Confirm that the condition of the site is safe to work in</li> <li>• Report any hazards that cannot be removed</li> <li>• Set out warning signs and barriers, exclusion zones to warn members of the public and to exclude animals</li> </ul>
<p><b>Attach and set trailed / mounted attachment ready for work</b></p>	<p>Explain and demonstrate procedures to be adopted including:</p> <ul style="list-style-type: none"> <li>• Connecting procedures</li> <li>• Securing process</li> <li>• Implement / forward tipping dumper compatibility</li> <li>• Hitch controls</li> <li>• Implement stability and security</li> <li>• Tipping procedure</li> <li>• Guarding</li> <li>• Starting / stopping procedures</li> <li>• Hazards associated with all implements</li> <li>• Remove and secure implements</li> </ul>
<p><b>Environmental considerations</b></p>	<p>Explain and demonstrate procedures to be adopted including:</p> <ul style="list-style-type: none"> <li>• Clear visibility</li> <li>• Communication system – signals etc</li> <li>• Noise</li> <li>• Vibration</li> <li>• Ground contamination</li> <li>• Ground damage</li> <li>• Fuel spills</li> <li>• Fumes</li> <li>• Flying debris</li> </ul>
<p><b>Storage and transport of forward tipping dumper attachments</b></p>	<p>Explain and demonstrate the following:</p> <ul style="list-style-type: none"> <li>• Allow power driven implements to slow down</li> <li>• Check condition of hydraulic hoses – attachments etc</li> <li>• Correct / secure storage of attachments</li> <li>• Refer to manufacturer's handbook</li> </ul>
<p><b>Explain loading / unloading procedures for machine transportation</b></p>	<p>Explain and demonstrate the following:</p> <ul style="list-style-type: none"> <li>• Placement on transporter, security and position</li> <li>• Types of transporter and compatibility to machine</li> <li>• Refer to manufacturer's handbook</li> </ul>
<p><b>Carry out all end of work and shut down procedures</b></p>	<p>Explain and demonstrate procedures to be adopted including:</p> <ul style="list-style-type: none"> <li>• Shut down procedures and machine security</li> <li>• Clean machine thoroughly after use to avoid corrosion</li> <li>• facilitate maintenance, prevent personal contamination</li> <li>• Inspect machine for signs of wear and damage</li> </ul>

*\*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*