



Learning Outcomes for N215 Dozer

Learning Outcome

Have a basic understanding of the industry, the dangers of working in the industry and their responsibilities as an operator

Instructor Notes

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, LOLER Regulations, MHSAWA, CDM Regulations, Vibration at Work Regulations, HSG150, ROPS – FOPS, Edge Protection, Quarries Regulations, 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)

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. Stress that it has to be used in alliance with all relevant legislation

Be able to locate and identify the major components of the machine and explain their functions

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, chassis, hydraulic systems, blades, safety locking devices, fuel tank, guards, stability, ground pressure, ROPS, FOPS and safety systems etc

Be able to locate and identify key controls and explain their functions

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

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. Go through the sequence of checking, use manufacturer's handbook, check sheet, defect reporting procedure etc

Identify and maintain PPE appropriate for dozer use

Explain that PPE should include the following:

Suitable safety boots, ear defenders, face / eye protection, dust mask if appropriate, suitable gloves, overalls, hard hat etc

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Conduct all necessary safety checks at the work area

Instructor Notes

Explain and demonstrate the following fully:

Walk the site and highlight or remove any hazards • Edge protection appropriate size • Overhead cables • Visibility, confined spaces • Ground condition – tipping edge cracks • 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 dozer for use and operate machinery safely and efficiently

Explain and demonstrate all safety procedures to be adopted including:
Correct starting procedure • Mount and dismount the machine • Blade type / size, types of ground, working speeds • Spoil segregation / placement • Steering controls, travel position, blade angles • Side-cast, windrow and spreading techniques • Correct operating procedure on slopes / inclines • Different attachments and productive cycles of operation • Identify and report any defects • Correct procedure for adjusting / changing different attachments • Follow all safe working procedures, types of excavations • Check electrical safety, overhead / underground services • Ramp integrity, stability, consolidation and inclines, stockpiles • Visibility reversing

Attach and set trailed, mounted attachments ready for work

Explain and demonstrate procedures to be adopted including:
Connecting procedures • Securing process • Implement / dozer compatibility • Hitch / winch controls • Implement stability and security • Tipping / dumping procedure • 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 • dust • Vibration • Ground contamination • Ground damage • Fuel spills • Fumes • Flying debris

Storage and transport of dozer attachments

Explain / 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



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Explain loading / unloading procedures for transportation

Instructor Notes

Explain / demonstrate the following:
Correct / secure position • All pressure released • Cleanliness and security •
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

