



Learning Outcomes for N108 MEWP Boom

Learning Outcome	Instructor Notes
Have a basic understanding of the industry, the dangers of working in the industry and their responsibilities as a plant operator	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, Work at Height Regulations 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 • Stress that it has to be used in alliance with all relevant legislation and codes of practice • Explain PPE • Harnesses • Machine decals • Site plans • Method statements • Certification • Risk assessments • Inspection and reporting forms • Beaufort wind scale
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 • Hydraulic systems • Drive systems • Wheels / tyres • Chassis, host vehicle • Stability / ground pressure • Outriggers • Attachments • Secondary guarding devices • Safety systems etc
Be able to locate and identify steering, driving and braking controls and explain their functions	Explain the different controls and their functions • Explain how correct and sympathetic use of the controls can ensure safety and stability of the machine and help prolong machine life by reducing wear and tear. Refer to the manufacturer's handbook, codes of practice and decals
Conduct all pre-operational checks in accordance with manufacturer's and legislative requirements	Explain the importance of pre-operational 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
Check all emergency lowering functions	Explain different types of emergency lowering devices, the procedures to be adopted, security and hazards
Safely mount and dismount the machine	Explain the following fully: Correct mounting procedure • Observations • Use of safe hand holds • Correct dismounting procedure • Observations • Use of safe hand holds



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Configure the machine for travel	Explain steering controls • Travel position • Visibility • Site travel • Attachments • Road Traffic Act (if appropriate)
Configure the machine for travel and manoeuvre it safely on level / rough ground and inclines in open and confined areas	Explain the following fully: Procedures for travelling over rough terrain and on inclines • Travel routes • Slopes and inclines • Direction of travel • Traction • Hazards • Ground conditions • Visibility • Working area • Ground clearance • Stability • Machine capability • Safety of personnel • Environmental considerations etc
Conduct all necessary safety checks at the work area, including overhead and underground hazards	Explain how to carry out safety checks including: Vehicles • Ground conditions • Overhead obstructions • Power lines • Buried services • Other workers etc
Manoeuvre the machine to the work area and correctly configure in readiness to carry out accessing tasks	Explain all safety procedures to be adopted including: Observations to be made prior to and during manoeuvring machine • Correct machine set up • Check ground type • Work specification • Set up work exclusion zone • SWL • Tools and equipment • Number of people • Height • Signalling • Suspension trauma • Reflow syndrome • Emergency plans etc
Carry out accessing tasks, at various points up to full operating height	Explain procedures to be adopted including: Hazards • Raising and lowering controls • Stability • Underground services • Overhead hazards • Minimum distances and clearances from overhead power lines • Communication • Signals • Emergency plans etc
Travel with platform raised (where applicable)	Explain procedures to be adopted including: Machine capability • Travel route • Hazards • Surfaces • Inclines • Visibility • Direction of travel • Controls etc
Demonstrate knowledge and understanding of loading and unloading procedures for machine transportation	Explain procedures to be adopted including: Different types of transport vehicle • Positioning of load on vehicle • Load security • Use of banksman • Environmental conditions
Carry out all end of shift and shut down procedures	Explain and demonstrate procedures to be adopted including: Safe parking • Shut down procedures and machine security

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