Learning Outcomes for N138
Telescopic Handler Suspended Loads

Learning Outcome	Instructor Notes
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 • 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 COSHH, Working at Heights Regulations, BS 7121, ACOP L113, CPA Guidance, risk assessments, method statements, lift plans, 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)
Be able to conform to manufacturers requirements as per technical data, conform to relevant regulations and legislation	Explain the importance of the manufacturer's requirements and that it will be used throughout the course. Stress that it has to be used in alliance with all relevant legislation • Explain and demonstrate the use of duty charts, lift plans, method statements, risk assessments, lifting requirements and limitations
Be able to locate, identify and explain safe working loads, lifting capacity chart and explain how the manufacturer may reduce the lifting capacity when moving a suspended load, different lifting configurations and working ranges	Explain the different types of safe working loads for telescopic handlers, lifting equipment and accessories • Explain the capacity chart and different configurations that must be considered • Explain and demonstrate the various working ranges of the telescopic handler and how stability will be affected
Identify and explain different lifting procedures, explain what task could fall into each category	Explain how different lifting procedures are categorised under: Basic lifts • Intermediate lifts • Complex lifts
Identify and explain centres of gravity and calculate estimated weights of loads	Explain and demonstrate procedures to be adopted including: • Load density and shapes • Different types of loads • Load integrity, centres of gravity • How to calculate the estimation of a load • The consequence of moisture content • Information tare sheets and load markings
Identify any overhead / proximity hazards	Explain the importance of identifying overhead hazards, also identifying any proximity hazards in the lifting area. Explain the recommended safe distances agreed in the industry and in the Health and safety publication GS6

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Ensure Telescopic Handler is in a safe condition attachments fitted correctly	Explain and demonstrate procedures to be adopted including: • The importance of placing the telescopic handler in a secure condition, handbrake • neutral when any attachment is being connected to the designated lifting point on the attachment • Explain the use is to prevent any unintentional movement of the machine that could lead to a fatality • explain the importance of verbal communication, the position of the telescopic handler, uneven ground, wet ground, soft ground etc
Checked load integrity and security	Explain and demonstrate procedures to be adopted including: • The reason and importance of a trial lift • Load density and shapes • Different types of loads • Load integrity, centres of gravity • The consequence of moisture content and how it could affect the lift
Be able to lift, move and land a load to a designated position in a safe and controlled manner, ensuring minimum uncontrolled movement	Explain and demonstrate procedures to be adopted including: Tracking / driving the telescopic handler whilst carrying a load • Performing turns in various directions and keeping load / side swings to a minimum • Safe carrying height • Lifting in confined spaces • Travelling over uneven and soft ground conditions and the effect on the load • Tag lines • Visibility etc
Environmental considerations	Explain and demonstrate; • Ground damage • Vibration from the lifting machine • Ground contamination • Debris • Fuel and oil spills etc
Carry out all out-of-service and securing procedures	Explain and demonstrate; Lower all equipment, shut down engine, remove keys and isolate • Damage checking • Ensure all attachments removed before lowering boom • Security of equipment • Release all hydraulic pressure in the system

Please note that these learning outcomes have been developed on the premise that the suspended loads will be slung by a dedicated, qualified, competent and authorised slinger / signaller. Where on occasion the telescopic handler operator may be required to sling the loads they are to transport they too must be qualified, competent and authorised slinger / signallers

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