



## Learning Outcomes for N402 Slinger / Signaller

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, PUWER Regs, LOLER Regs, COSHH, Working at Heights Regulations, BS 7121 part1 & 2, ACOP L113, 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>Be able to conform to manufacturers requirements as per technical data, conform to relevant regulations and legislation</b>	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
<b>Be able to locate and identify and explain different types of lifting equipment and lifting accessories. Explain their basic construction, uses, applications and their functions</b>	Explain the different types of cranes, lifting equipment and accessories • Explain the function of the components and how they all contribute to the safety and operational integrity of the lifting equipment • Explain their various uses for different types of loads, terminology, and specialist equipment
<b>Be able to interpret and extract information on all relevant documentation</b>	Explain the importance of the ability to extract information from the test certification, thorough examination of certification, lift plan, method statements, risk assessments, load / tare sheets lifting charts, decals and other relevant paperwork etc
<b>Undertake all pre-use checks on non-specialist lifting accessories and identify non-serviceable items</b>	Explain the importance of examining all lifting accessories and the limitations that are acceptable • Explain types of damage and the implications of using damaged or unsuitable lifting equipment • Sequence of pre-use checks, procedures for in-service and out of service markings
<b>Explain procedures for placing non-serviceable items out of service</b>	Explain the following fully: • The procedure and importance of defect reporting • The secure storage of defective items • Disposing of defective items as stated in LOLER Regulations



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<b>Identify and explain centres of gravity and calculate the estimated weight of loads</b>	Explain and demonstrate procedures to be adopted including: <ul style="list-style-type: none"> <li>• The reason and importance of a trial lift</li> <li>• Load density and shapes</li> <li>• Different types of loads</li> <li>• Load integrity, centres of gravity</li> <li>• How to calculate the estimation of a load</li> <li>• The consequence of moisture content</li> <li>• Information / tare sheets and load markings</li> </ul>
<b>Set up exclusion zone explaining actions required for emergency actions and identify overhead hazards</b>	Explain and demonstrate procedures to be adopted including: <ul style="list-style-type: none"> <li>• Warning and identification systems</li> <li>• Reporting procedures for damage to services</li> <li>• Minimum distances and clearances</li> <li>• Explain exclusion zones for pedestrian and vehicles</li> <li>• Ground stability, ground pressures</li> </ul>
<b>Identify and maintain PPE appropriate for slinger signaller</b>	PPE should include the following: <ul style="list-style-type: none"> <li>• Suitable safety boots, ear defenders, face / eye, protection hard hat, dust mask if appropriate, suitable gloves, overalls, etc</li> <li>• Explain the importance of suitable hand protection and the implications of foreign bodies in your hand</li> </ul>
<b>Secure various types of loads to a hook using the relevant lifting accessories and procedures ensuring load balance, security and integrity</b>	Explain the importance of: <ul style="list-style-type: none"> <li>• SWL / WLL of the load</li> <li>• Load lifting points</li> <li>• Protection for lifting accessories</li> <li>• Correct slinging procedures</li> <li>• Load protection</li> <li>• Tag lines</li> <li>• Load characteristics</li> <li>• Loose, bundled</li> <li>• Live loads</li> </ul>
<b>Direct and guide the movement of loads to different types of locations using different methods of communication</b>	Explain and demonstrate procedures to be adopted including: <ul style="list-style-type: none"> <li>• The route of lift</li> <li>• Visibility</li> <li>• Load swings</li> <li>• Tag lines, netting / sheeting</li> <li>• Different forms of communication i.e. hand signals, radio protocol</li> <li>• Verification of desired location for landing the load and security</li> <li>• Landing conditions, landing loads at height, retrieval of accessories, blind lifts, slinging procedures, load protection</li> <li>• Security of loads after landing, ground stability / pressures</li> <li>• Environmental conditions / wind effects etc</li> </ul>
<b>Environmental considerations</b>	Explain and demonstrate; <ul style="list-style-type: none"> <li>• Ground Damage</li> <li>• Vibration from the lifting machine</li> <li>• Ground contamination</li> <li>• Debris</li> <li>• Fuel and oil spills etc</li> </ul>
<b>Carry out all out-of-service and securing procedures</b>	Explain and demonstrate; <ul style="list-style-type: none"> <li>• Cleaning and protecting accessories</li> <li>• Safe manual handling</li> <li>• Damage checking</li> <li>• Security</li> <li>• Storage procedures</li> <li>• Documentation</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***