



Learning Outcomes for N402 Slinger / Signaller

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, 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)

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 and identify and explain different types of lifting equipment and lifting accessories. Explain their basic construction, uses, applications and their functions

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

Be able to interpret and extract information on all relevant documentation

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

Undertake all pre-use checks on non-specialist lifting accessories and identify non-serviceable items

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

Explain procedures for placing non-serviceable items out of service

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

Learning Outcome

Instructor Notes

Identify and explain centres of gravity and calculate the estimated weight of loads

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
- How to calculate the estimation of a load
- The consequence of moisture content
- Information / tare sheets and load markings

Set up exclusion zone explaining actions required for emergency actions and identify overhead hazards

Explain and demonstrate procedures to be adopted including:

- Warning and identification systems
- Reporting procedures for damage to services
- Minimum distances and clearances
- Explain exclusion zones for pedestrian and vehicles
- Ground stability, ground pressures

Identify and maintain PPE appropriate for slinger signaller

PPE should include the following:

- Suitable safety boots, ear defenders, face / eye, protection hard hat, dust mask if appropriate, suitable gloves, overalls, etc
- Explain the importance of suitable hand protection and the implications of foreign bodies in your hand

Secure various types of loads to a hook using the relevant lifting accessories and procedures ensuring load balance, security and integrity

Explain the importance of:

- SWL / WLL of the load
- Load lifting points
- Protection for lifting accessories
- Correct slinging procedures
- Load protection
- Tag lines
- Load characteristics
- Loose, bundled
- Live loads

Direct and guide the movement of loads to different types of locations using different methods of communication

Explain and demonstrate procedures to be adopted including:

- The route of lift
- Visibility
- Load swings
- Tag lines, netting / sheeting
- Different forms of communication i.e. hand signals, radio protocol
- Verification of desired location for landing the load and security
- Landing conditions, landing loads at height, retrieval of accessories, blind lifts, slinging procedures, load protection
- Security of loads after landing, ground stability / pressures
- Environmental conditions / wind effects 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;

- Cleaning and protecting accessories
- Safe manual handling
- Damage checking
- Security
- Storage procedures
- Documentation

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