

Learning for CPCS

Slinger/Signaller - A40B-E



Outcomes

Through a combination of targeted training and experience, a slinger/signaller will be able to:

Roles and responsibilities	<ul style="list-style-type: none"> Describe the nature of the sector of industry and their role and responsibilities as a slinger/signaller
Preparing for work	<ul style="list-style-type: none"> Name and explain the purpose of differing types of lifting equipment and lifting accessories, basic construction, uses and applications, characteristics and terminology Conform with manufacturer's requirements as per technical data, other types of information source and relevant regulations and legislation Interpret and extract information on all relevant documentation Undertake all pre-use checks on non-specialist lifting accessories (relevant to the endorsement) and identify non-serviceable items Identify specialist lifting accessories relevant to the endorsement Explain when additional skills and knowledge for lifting operations may be required Explain procedures for placing non-serviceable items out-of-service
Setting up for work	<ul style="list-style-type: none"> Confirm methods of communication with the machine operator Identify centres of gravity and establish weights of loads Prepare and ready the area of operation and maintain exclusion zones Choose the relevant lifting accessory for a given load Explain actions required for hazards including underground and overhead services
Working tasks	<ul style="list-style-type: none"> Secure and detach various types of load to the requisite lifting point using the relevant lifting accessory and procedures Ensure load balance, security and integrity Guide and control the movement of loads to different types of location Explain the importance and locations of positions of safety for a slinger and other personnel Accurately place loads Use and comply with a range of communication procedures Provide directions where the machine operator cannot observe the full path of the load Maintain safe working situations
Working tasks (pick and carry duties)	<ul style="list-style-type: none"> Assess and confirm that the area for machine movement is suitable for manoeuvring activities and contains suitable locations to undertake marshalling duties (endorsements A, D and E) Control loads during pick-and-carry duties (endorsements A, D and E)
Completing work	<ul style="list-style-type: none"> Carry out out-of-service and securing procedures

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Syllabus

Learning outcome	Training content	
<ul style="list-style-type: none"> Describe the nature of the sector of industry and their role and responsibilities as a slinger/signaller 	<ul style="list-style-type: none"> Industry type Customer / client needs Sector contribution Role Reporting structures Lifelong skills Working practices Social responsibilities 	<ul style="list-style-type: none"> Communication with colleagues / management / other trades Health and Safety at Work Act Environmental issues Other trades
<ul style="list-style-type: none"> Name and explain the purpose of differing types of lifting equipment and lifting accessories, basic construction, uses and applications, characteristics and terminology 	<ul style="list-style-type: none"> Types of lifting equipment/ lifting equipment Types of accessories including specialist and non-specialist Construction / materials Applications 	<ul style="list-style-type: none"> Functions Definitions Uses Specialist accessories Terminology SWL / WLL (Inc. differences between)
<ul style="list-style-type: none"> Conform with manufacturer's requirements as per technical data, other types of information source and relevant regulations and legislation 	<ul style="list-style-type: none"> Manuals / information sheets Duties charts Decals Health and Safety at Work Act PPE Site plans / drawings 	<ul style="list-style-type: none"> Method statements Lifting requirements and limitations Risk assessments / COSHH Inspection and reporting forms / procedures Lift plans Codes of Practice
<ul style="list-style-type: none"> Interpret and extract information on all relevant documentation 	<ul style="list-style-type: none"> Test certificates Thorough examination certificates 	<ul style="list-style-type: none"> Load / tare sheets Duties charts
<ul style="list-style-type: none"> Undertake all pre-use checks on non-specialist lifting equipment (relevant to the endorsement) and identify non-serviceable accessories 	<ul style="list-style-type: none"> Types of damage / defects Sequence of pre-use checks 	<ul style="list-style-type: none"> Procedures In-service and out-of-service markings
<ul style="list-style-type: none"> Identify specialist lifting accessories relevant to the endorsement 	<ul style="list-style-type: none"> Types Application and use Information sources for use Manual handling requirements Weights/centres of gravity 	<ul style="list-style-type: none"> Specialist checks Attaching/detaching procedures Adjustments/setting up Additional training requirements Storage procedures

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Syllabus (continued)

Learning outcome	Training content	
<ul style="list-style-type: none"> Explain when additional skills and knowledge for lifting operations may be required 	<ul style="list-style-type: none"> Changes in the lift plan Environmental effects New working area Changes or addition of team members 	<ul style="list-style-type: none"> New types of accessories Different types of lifting equipment Changes to site/working area requirements
<ul style="list-style-type: none"> Explain procedures for placing non-serviceable items out-of-service 	<ul style="list-style-type: none"> Defect reporting Storage of defective items 	<ul style="list-style-type: none"> Disposing of defective items
<ul style="list-style-type: none"> Confirm methods of communication with the machine operator 	<ul style="list-style-type: none"> Methods and types of signals Methods of verbal instruction 	<ul style="list-style-type: none"> Multiple signalling Codes of Practice
<ul style="list-style-type: none"> Identify centres of gravity and weights of loads 	<ul style="list-style-type: none"> Load types Centre of gravity Load integrity Load density and shapes 	<ul style="list-style-type: none"> Calculations Moisture contents Information sheets / load markings
<ul style="list-style-type: none"> Prepare and ready the area of operation and maintain exclusion zones 	<ul style="list-style-type: none"> Required configuration (lift plan) Judging heights and distances Signage/barriers, pedestrian walkways and other moving plant/vehicles 	<ul style="list-style-type: none"> Environmental conditions Hazards Site procedures Personnel identification
<ul style="list-style-type: none"> Choose the relevant lifting accessory for a given load 	<ul style="list-style-type: none"> Lifting equipment (lifting equipment) capacity Lifting accessory capacity Required type or types Load weight Lifting accessory weight SWL / WLL 	<ul style="list-style-type: none"> Lift plan Additional accessories Load characteristics – loose, bundled, fluid loads etc. Sling angles De-rating
<ul style="list-style-type: none"> Explain actions required for hazards including underground and overhead services 	<ul style="list-style-type: none"> Types of typical services / hazards Warning / identification systems Reporting procedures for damage to services 	<ul style="list-style-type: none"> Minimum distances and clearances Multiple lifting equipment use / lifting equipment co-ordination

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Syllabus (continued)

Learning outcome	Training content	
<ul style="list-style-type: none"> Secure and detach various types of load to the requisite lifting hook using the relevant lifting accessory and procedures 	<ul style="list-style-type: none"> Lifting accessory SWL / WLL Load type Load characteristics Slings procedures Load protection 	<ul style="list-style-type: none"> Load lifting points Lifting accessory protection Retrieval of accessories after placing Environmental factors
<ul style="list-style-type: none"> Ensure load balance, security and integrity 	<ul style="list-style-type: none"> Trial lifts Stability C of G / balance Netting / sheeting 	<ul style="list-style-type: none"> Fluid loads Load surface area Environmental conditions / wind effects
<ul style="list-style-type: none"> Guide and control the movement of loads to different types of location 	<ul style="list-style-type: none"> Route Visibility Other personnel / public areas Causes of load swing Areas of trapping Load tethering options 	<ul style="list-style-type: none"> Hand line requirements Attaching hand lines Communication Hazards Risks of slips, trips and falls Environmental considerations
<ul style="list-style-type: none"> Explain the importance and locations of positions of safety for a slinger and other personnel 	<ul style="list-style-type: none"> Work area layout Types of vehicle/plant in work area Clearances and crush zones 	<ul style="list-style-type: none"> Pedestrian segregation/demarcation Refuges Actions for poor light/darkness
<ul style="list-style-type: none"> Use and comply with a range of communication procedures 	<ul style="list-style-type: none"> Methods and types of signals Signaller identification Methods of verbal instruction 	<ul style="list-style-type: none"> Electronic communication / setting-up Multiple signalling Codes of Practice Radio protocol
<ul style="list-style-type: none"> Use and comply with a range of communication procedures 	<ul style="list-style-type: none"> Methods and types of signals Signaller identification Methods of verbal instruction 	<ul style="list-style-type: none"> Electronic communication / setting-up Multiple signalling Codes of Practice Radio protocol
<ul style="list-style-type: none"> Provide directions where the machine operator cannot observe the full path of the load 	<ul style="list-style-type: none"> Effective communication procedures and methods Access and egress to the load lifting/landing areas 	<ul style="list-style-type: none"> Requirements for additional signallers Working at height requirements
<ul style="list-style-type: none"> Maintain safe working situations 	<ul style="list-style-type: none"> Load stability / security Lifting equipment stability 	<ul style="list-style-type: none"> Hazards

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Syllabus (continued)

Learning outcome	Training content	
<ul style="list-style-type: none"> Assess and confirm that the area for machine movement is suitable for manoeuvring activities and contains suitable locations to undertake marshalling duties 	<ul style="list-style-type: none"> Traffic management plan/risk assessment Proximity hazards Access/egress routes Ground conditions Traffic plan requirements Marshalling locations 	<ul style="list-style-type: none"> Emergency procedures Risks of slips, trips and falls Crush zones Vehicle /plant size and manoeuvrability relative to the work area Reversing distances/minimising reversing
<ul style="list-style-type: none"> Control loads during pick-and-carry duties (endorsements A, D and E) 	<ul style="list-style-type: none"> Additional communication procedures with lifting equipment operator Travel routes and inclines Ground type and conditions Load swings Wind effects/sail areas 	<ul style="list-style-type: none"> Handline/tethering requirements Clearances between machine and load handler Visibility limitations of lifting equipment operator Use of additional personnel
<ul style="list-style-type: none"> Carry out out-of-service, storing and securing procedures 	<ul style="list-style-type: none"> Cleaning and protecting accessories Manual handling Storage procedures 	<ul style="list-style-type: none"> Damage checking Security Documentation

Note: The listed training content should not be considered exhaustive and subjects may be added to reflect the individuals' working environment.

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Safety critical

Emphasis to be placed on the following topics:

Topic	Emphasis
<ul style="list-style-type: none"> Lift plans / method statements 	Lift plan types and requirements and the need for lift planning, particularly where travelling with suspended loads is involved. Adherence to the lift plan as constructed by a competent person
<ul style="list-style-type: none"> Tidiness of the work area/good housekeeping 	Ensuring that area of operation is organised and of suitable ground so that slips, trips & falls are minimised, and that materials are suitably and safely stored
<ul style="list-style-type: none"> Controlling loads under pick and carry duties 	Ensuring the travel route minimises the risk of slips, trips and falls and keeping well clear of the moving path of the machine whilst keeping in full vision of the machine operator and
<ul style="list-style-type: none"> Stability of machines with raised boom on uneven ground 	Checking ground suitability prior to raising loads. Travelling and manoeuvring with raised loads. Appreciation of centres of gravity
<ul style="list-style-type: none"> Attaching and detaching loads to and from non-hoist rope equipment 	Confirmation with machine operator in being safe to undertake work whilst in close proximity to boom/dipper components e.g. tele handlers, excavators etc. and risks of unintentional component movement (raising/lowering/sideways)
<ul style="list-style-type: none"> Suspended loads and proximity hazards 	Issues relating to travelling with raised boom, an operator's limitation of vision when travelling with raised boom and suspended large area loads
<ul style="list-style-type: none"> Suspended loads during travel 	The effects and consequences of load swing when travelling with a suspended load, particularly on inclines and windy weather Inc. knowledge of wind speed limits/sail effect etc.
<ul style="list-style-type: none"> Out-of-sight (Inc. below ground level) load lifting and placing 	Implementing of procedures for effective communication when lifting or placing loads in confined areas, areas out-of-sight of the machine operator such as below ground level load lifting and placing

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Duration / Ratios

To allow effective learning, these training times are recommended for this category. Candidates must be profiled to establish learning needs. Durations should be of a length to ensure the learning outcomes are met.

Experience	Accumulated hours
• Novices with no industry or lifting experience	28
• Novices with industry experience but no lifting experience	21
• Individuals with some lifting experience	7

All candidates must have received the equivalent to 7 hours of site safety and induction training

To allow effective learning, the listed candidate / machine / instructor ratio is the maximum recommended for this category

4 candidates : 1 machine: 1 instructor

Resources

Practical equipment	Theory equipment
<ul style="list-style-type: none"> • Lifting equipment with competent operator • Different types of loads • Lifting accessories • Information sources • Sufficient area of ground suitable for placing loads at various heights and radius <p>PLUS</p> <ul style="list-style-type: none"> • Suitable PPE • Risk assessment for all areas where training is occurring 	<ul style="list-style-type: none"> • PUWER 1998 Regulations • LOLER 1998 Regulations • BS 7121 (all parts) • HSE GS6 • Specifications books for lifting equipment (lifting equipment) and lifting accessories <p>PLUS</p> <ul style="list-style-type: none"> • Suitable room for theory training purposes • Welfare and rest facilities during training

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Category

Category description and types

This category is defined as a duty of an individual who, as part of a lifting team, attaches and secures loads using non-specialist lifting accessories, signals the movement for suspended loads and guides them to an agreed destination, and leaves the load in a safe condition.

Duties

Slinging means the ability to safely connect and secure various types of loads to a lifting hook using the relevant lifting accessory and procedures.

Signalling means the ability to convey information to the lifting equipment operator and others involved in the lift using one or more of manual, hand and verbal instructions.

Endorsement characteristics

Endorsement A - All types – all duties: Ability to undertake the role with a range of common types of lifting equipment including pick-and carry duties

Endorsement B - All types – static duties: Ability to undertake the role with a range of common types of static duty lifting equipment

Endorsement C - Knuckle boom static only: Ability to undertake the role only with static lifting equipment of this type

Endorsement D – Excavator only: Ability to undertake the role only with earthmoving-type excavators which have lifting duties capability, and includes pick-and-carry duties

Endorsement E - Lift truck only: Ability to undertake the role only with masted -type lift trucks and variable reach trucks (such as telescopic handlers) which have suspended load lifting duties capability and includes pick-and-carry.

Note: For CPCS purposes, the definition of non-specialist lifting accessories is defined as equipment that uses chain, wire or fibre material as part of the equipment's components used for the lifting of common types of construction site materials and/or equipment.