Unit 723 Slinging and hand signalling the movement of suspended loads in the workplace

Level: 2

Unit aim:
This unit aims to provide you with an awareness of:

- interpreting information
- adopting safe and healthy working practices
- selecting materials, components and equipment
- preparing for and slinging and signalling the movement of loads

*PER – Portfolio evidence reference SO – Site observation OQ – Oral question WQ – Written question WT – Witness testimony
PS – Product supplementary PD – Professional discussion

Assessment criteria that are practical activities are highlighted in bold.

1. Interpret the given information relating to the preparation for and the slinging and signalling of loads.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
1.1 **interpret and extract relevant information from:**							
a. **drawings**							
b. **specifications**							
c. **schedules**							
d. **risk assessments**							
e. **method statements (lift plans)**							
f. **manufacturers' information**							

1.2 **comply with information and/or instructions derived from risk assessments and method statements**							
1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented							
1.4 describe different types of information, their source and how they are interpreted in relation to:							
a. drawings							
b. specifications							
c. schedules							
d. method statements							
e. risk assessments							
f. lift plans							
g. work instructions							
h. manufacturers' information							
i. approved procedures and codes of practice.							

2. Organise with others the sequence and operation in which the slinging and signalling of loads is to be carried out							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
2.1 **organise the work according to given information or instructions**							
2.2 describe how to communicate ideas between team members							
2.3 **organise and communicate with team members and other associated occupations**							
2.4 describe how to organise resources prior to and when slinging and signaling of loads.							

3. Know how to comply with relevant legislation and official guidance to carry out slinging and signalling of loads.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
3.1 describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:							
a. in the workplace							
b. below ground level							
c. in confined spaces							
d. at height							
e. with tools and equipment							
f. with materials and substances							
g. with movements/storage of materials and by manual handling and mechanical lifting							
3.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative							
3.3 explain what the accident reporting procedures are and who is responsible for making reports.							

4. Maintain safe and healthy working practices when preparing for and slinging and signalling loads.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
4.1 **use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements when slinging and signalling loads**							
4.2 **demonstrate compliance with given information and relevant legislation when carrying out the slinging and signalling of loads in relation to at least three of the following:**							
a. **safe use and storage of tools and equipment**							
b. **safe use, storage and handling of lifting accessories**							
c. **safe use of access equipment**							
d. **specific risks to health**							
4.3 explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to slinging and signalling of loads, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:							
a. collective protective measures							
b. personal protective equipment (PPE)							
c. respiratory protective equipment (RPE)							
d. local exhaust ventilation (LEV)							
4.4 describe how the relevant health and safety control equipment should be used in accordance with the given working instructions							
4.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with:							
a. fires							
b. spillages							
c. injuries							

d. other task-related activities							

5. Select the required quantity and quality of resources to prepare for and when slinging and signalling loads.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
5.1 **select resources associated with slinging/signalling in relation to lifting accessories/aids, hand tools and ancillary equipment**							
5.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:							
a. lifting accessories							
b. signaling and communication equipment							
c. hand tools and ancillary equipment							
5.3 describe how the resources should be used correctly, and how problems associated with the resources are reported							
5.4 explain why the organisational procedures have been developed and how they are used for the selection of required resources							
5.5 describe any potential hazards associated with the resources and methods of work							
5.6 describe how to identify weight, quantity, length and area associated with the method/procedures to carry out slinging/signalling.							

6. Minimise the risk of damage to the work and surrounding area when preparing to and slinging and signalling loads							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
6.1 **protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures**							
6.2 **prevent damage and maintain a clean work space**							
6.3 **dispose of waste in accordance with legislation**							
6.4 describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions							
6.5 Explain why the disposal of waste should be carried out safely in accordance with:							
a. environmental responsibilities							
b. organisational procedures							
c. manufacturers information							
d. statutory regulations							
e. official guidance.							

7. Complete the work within the allocated time when preparing to and slinging and signalling loads.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
7.1 **demonstrate completion of the work within the allocated time**							
7.2 describe the purpose of the work programme and describe why deadlines should be kept in relation to:							
a. types of progress charts, timetables and estimated times							
b. organisational procedures for reporting circumstances which will affect the work programme.							

8. Comply with the given contract information to prepare to and sling and signal suspended loads for movement to the required specification.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
8.1 **demonstrate the following work skills when preparing to and slinging and signalling loads:**							
a. **measuring**							
b. **gauging**							
c. **estimating**							
d. **calculating**							
e. **fitting**							
f. **fixing**							
g. **testing**							
h. **balancing**							
i. **interpreting**							
j. **inspecting**							
k. **judging**							
l. **explaining**							
m. **preparing**							
n. **indicating**							
o. **informing**							
p. **instructing**							
q. **signing**							

r. **positioning**							
s. **adjusting**							
t. **configuring**							
u. **moving**							
v. **securing**							
w. **signalling**							
x. **relaying**							
8.2 **use and maintain lifting accessories, lifting aids and equipment**							
8.3 **inspect and prepare lifting accessories prior to slinging**							
8.4 **prepare to and attach suspended loads to lifting equipment, using appropriate lifting accessories and load securing methods, to given working instructions for three of the following:**							
a. **balanced**							
b. **unbalanced**							
c. **loose**							
d. **bundled**							
e. **container**							
f. **drum**							
g. **a load where the machine operator cannot observe its full movement path.**							
8.5 **guide, move and place suspended loads to specified destinations, using hand signals, to given working instructions for three of the following:**							
a. **balanced**							

b. **unbalanced**							
c. **loose**							
d. **bundled**							
e. **container**							
f. **drum**							
g. **a load where the machine operator cannot observe its full movement path.**							
8.6 describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:							
a. identify the differences between: slinging and signalling, directing and guiding movement of vehicles, plant and machinery, and directing and guiding operations of plant and machinery not being used for lifting operations							
b. confirm the authority, duties and responsibilities allocated							
c. identify characteristics of lifting equipment and lifting accessories							
d. identify and interpret valid certification for maintenance, inspection and thorough examination							
e. lift and transfer people							
f. sling balanced, unbalanced, loose, live, bundled, container drum loads and loads that are blind to the equipment operator							
g. communicate using hand signals, hand signalling equipment (lights, wands, fluorescent gloves, flags) and electronic communication equipment (loud hailers, radios)							
h. confirm methods of communication							
i. recognise blind-spots, potential crush zones and other limitations to driver visibility							
j. consider the load characteristics including centre of gravity and lifting points to determine the method of slinging							

k. determine and check the route of the load before and during the lift including distances, clearances and landing position							
l. select, handle, inspect and use (assemble, set up and adjust) lifting accessories and aids							
m. identify rejection criteria for removing lifting accessories from service							
n. recognise and determine when specific skills and knowledge are required and report accordingly							
o. attach lifting accessories and sling loads securely							
p. ensure balance and stability of loads							
q. attach and use load guidance equipment (tag lines)							
r. guide and place suspended loads by recognised methods of communication and agreed operational procedures							
s. land and position loads safely and securely							
t. remove and store lifting accessories							
u. use hand tools and ancillary equipment							
8.7 describe the needs of other occupations and how to communicate within a team when preparing to and slinging and signalling loads							
8.8 describe how to maintain the lifting accessories, lifting aids and signalling and communication equipment used to sling and signal loads.							

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Declaration

I confirm that the evidence supplied for the above unit is authentic and a true representation of my own work. The work logged is my own work carried out during my normal work duties.

Candidate name:	
Candidate signature:	
Date:	

I confirm that this candidate has achieved all the requirements of this unit with the evidence listed. Assessment was conducted under the specified conditions and context, and is valid, authentic, reliable, current and sufficient.

Assessor name:	
Assessor signature:	
Date:	

IQA name:	
IQA signature:	
Date:	