Unit 225 Placing and compacting concrete in the workplace

13 credits

Level: 2
UAN: Y/600/8165

Unit aim:
This unit aims to provide the learner with the necessary skills and knowledge to:

- interpret information
- adopt safe and healthy working practices
- select materials and equipment
- prepare for, place and compact concrete

*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 work and resources when placing and compacting concrete.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
1.1 interpret and extract information from:							
a. **drawings**							
b. **specifications**							
c. **schedules**							
d. **manufacturers' information.**							
1.2 comply with information and/or instructions derived from risk assessments and method statement.							
1.3 state 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. manufacturers' information							
e. oral and written instructions.							

2. Know how to comply with relevant legislation and official guidance when placing and compacting concrete.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
2.1 describe their responsibilities under current legislation and official guidance whilst working:							
a. in the workplace							
b. below ground level							
c. at height							
d. with tools and equipment							
e. with materials and substances							
f. with movement/storage of materials							
g. by manual handling and mechanical lifting.							
2.2 describe the organisational security procedures for:							
a. tools							
b. equipment							
c. personal belongings							
in relation to							
a. site							
b. workplace							
c. company							

d. operative.							
2.3 state what the accident reporting procedures are and who is responsible for making reports.							

3. Maintain safe working practices when placing and compacting concrete.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
3.1 use personal protective equipment (PPE) safely to carry out the activity in accordance with legislation and organisational requirements when placing and compacting concrete.							
3.2 explain why and when personal protective equipment (PPE) should be used, relating to placing and compacting concrete, and the types, purpose and limitations of each type.							
3.3 state how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related hazards.							

4. Select the required quantity and quality of resources for the methods of work to place and compact concrete.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
4.1 describe the characteristics, quality, uses, limitations and defects associated with the resources in relation to:							
a. aggregates							
b. cements							
c. concrete							
d. reinforcement							
e. membranes							
f. release agents							
g. anti-heave materials							
h. moulds							
i. hand and/or powered tools							
j. slump test equipment							
k. skips							
l. poker vibrator							

m. tampers							
n. floats and trowels							
4.2 **select resources associated with own work in relation to:**							
a. **materials**							
b. **components**							
c. **fixings**							
d. **tools**							
e. **equipment.**							
4.3 state how the resources should be used correctly, how problems associated with the resources are reported and how the organisational procedures are used.							
4.4 outline potential hazards associated with the resources and method of work.							
4.5 describe how to calculate quantity and wastage associated with the method/procedure to place and compact concrete.							

5. Minimise the risk of damage to the work and surrounding area when placing and compacting concrete.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
5.1 protect the work and its surrounding area from damage.							
5.2 minimise damage and maintain a clean work space.							
5.3 describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.							
5.4 dispose of waste in accordance with legislation.							
5.5 state why the disposal of waste should be carried out in relation to the work.							

6. Complete the work within the allocated time when placing and compacting concrete.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
6.1 demonstrate completion of the work within the allocated time.							
6.2 state the purpose of the work programme and explain 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.							

7. Comply with the given contract information to place and compact concrete to the required specification.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
7.1 demonstrate the following work skills when placing and compacting concrete:							
a. **receiving**							
b. **handling**							
c. **transporting**							
d. **placing**							
e. **compacting**							
f. **finishing**							
g. **curing.**							
7.2 transport, place and compact structural and/or non-structural concrete to contractor's working instructions, placed in at least one of the following locations:							
a. **below ground level**							
b. **at ground level**							
c. **above ground level.**							
7.3 describe how to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them, to:							
a. handle and test concrete							
b. transport and place concrete							

c. compact and finish concrete							
d. cure and protect concrete							
e. use hand tools, power tools and equipment.							
7.4 safely use and store hand tools, portable power tools and ancillary equipment.							
7.5 state the needs of other occupations and how to communicate within a team when placing and compacting concrete.							
7.6 describe how to maintain the tools and equipment used when placing and compacting concrete.							

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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:	