Unit 274 Installing sheeting and cladding systems on roofs and walls in the work

Level: 2

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

- interpreting information
- adopting safe and healthy working practices
- selecting materials, components and equipment
- producing plain setting out details for wheelwrighting (carriage construction)

*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 installing sheeting and cladding systems on roofs and walls.							
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. **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. cutting lists							
e. method statements							
f. risk assessments							
g. manufacturers' information							
h. component standards and current regulations (animal welfare).							
i. oral and written instructions							
j. site inductions							
k. current regulations governing buildings and official guidance associated with the installation of sheeting and cladding systems							

2. Know how to comply with relevant legislation and official guidance when installing sheeting and cladding systems on roofs and walls							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
2.1 describe their responsibilities regarding potential accidents, health, hazards and the environment whilst working:							
a. in the workplace							
b. in confined spaced							

c. at height							
d. with tools and equipment							
e. with materials and substances							
f. with movement and storage of materials by manual handling and mechanical lifting							
2.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to:							
a. site							
b. workplace							
c. company							
d. operative							
2.3 explain what the accident reporting procedures are and who is responsible for making reports.							

3. Maintain safe and healthy working practices when installing sheeting and cladding systems on roofs and walls.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
3.1 **Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when installing sheeting and cladding systems on roofs and walls**							
3.2 **Demonstrate compliance with given information and relevant legislation when installing sheeting and cladding systems on roofs and walls in relation to the following**							
a. safe use of access equipment							
b. safe use storage and handling of materials, tools and equipment							
c. specific risks to health							

3.3 explain why and when health and safety control equipment, identified by the principles of protection, should be used, when installing sheeting and cladding systems on roofs and walls, 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)							
3.4 describe how the relevant health and safety control equipment should be used in accordance with the given working instructions							
3.5 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 hazards.							
4. Select the required quantity and quality of resources for the methods of work to install sheeting and cladding systems on roofs and walls.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
4.1 **select resources associated with own work in relation to:**							
a. **materials**							
b. **components**							
c. **fixings**							
d. **tools**							
e. **equipment**							

4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:							
a. fixings, , fasteners, flashings, fittings, halters, spacer systems and clips							
b. .insulation, vapour control, separation and breather membranes							
c. sealants and fillers							
d. metal and translucent sheets, build up standing seam, secret fix, composite panels, decking panels and fibre cement systems							
e. hand tools, portable power tools and equipment							
4.3 describe how the resources should be used correctly and how problems associated with the resources are reported							
4.4 explain why the organisational procedures have been developed and how they are used for the selection of required resources							
4.5 describe any potential hazards associated with the resources and method of work							
4.6 describe the methods of calculating quantity,:							
a. quantity							
b. length							
c. area							
d. wastage associated with the method/procedure to produce setting out details when installing sheeting and cladding systems on roofs and walls							

5. Minimise the risk of damage to the work and surrounding area when installing sheeting and cladding systems on roofs and walls							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
5.1 **minimise the risk of damage to the work and surrounding area when installing**							

5.2 **prevent damage and maintain a clean work space**							
5.3 **dispose of waste in accordance with current legislation**							
5.4 describe how to protect work from damage and the purpose of protection in relation to:							
a. general workplace activities							
b. other occupations							
c. adverse weather conditions							
5.5 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 and official guidance.							

6. Complete the work within the allocated time when installing sheeting and cladding systems on roofs and walls							
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 describe the purpose of the work programme and explain why deadlines should be kept in relation to:							
a. types of productivity targets and time scales							
b. how to times are estimated							
c. organisational procedures for reporting circumstances which will affect the work programme.							

7. Comply with the given contract information to produce setting out details when installing sheeting and cladding systems on roofs and walls							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
7.1 **demonstrate the following work skills** when installing sheeting and cladding systems on roofs and walls							
a. **measuring setting out**							
b. **adusting**							
c. **aligning**							
d. **levelling**							
e. **plumb**							
f. **fitting**							
g. **fixing**							
h. **finishing**							
i. **drawing**							

7.2 **Use and maintain hand tools, portable power tools and ancillary equipment.**							
7.3 Install sheeting and cladding materials to roofs and walls, to include flashings, openings, vents, up-stands, protrusions and penetrations to given working instructions for one of the following systems							
a. **built up**							
b. **standing seam**							
c. **secret fix**							
d. **fibre cement**							
e. **composite panel**							
7.4 describe how to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them, to:							
a. identify installation quality requirements							
b. conform to manufacturers' installation criteria							
c. .identify, recognise and work to gridlines and datum marks s							
d. position and secure fixings, halters, spacers, clips, fittings and sheets							
e. deal with damaged and incorrect sheeting, cladding materials and resources							
f. install built up, standing seam, secret fix, composite panels and fibre cement systems							
g. install decking and structural panels							
h. . maintain the integrity of surfaces, backgrounds, sheets and panels							
i. position and secure vents							
j. install insulation							
k. measure, cut, fit, shape and fix flashing materials							
l. install translucent sheets, condensation and vapour control materials							
m. form and shape components for openings, vents, up-stands, protrusions and penetrations							

	n. ensure the integrity of joints, overlaps and interface details							
	o. apply sealants and install fillers to ensure water and airtight seals							
	p. . check quality and suitability of work on completion and at the end of each working period							
	q. recognise and determine when additional specialist skills and knowledge are required and report accordingly							
	r. work from mobile elevating work platforms							
	s. work with, around and in close proximity to plant and machinery							
	t. use hand tools, portable power tools and equipment							
	u. work at height							
	v. use access equipment							
7.5	describe the needs of other occupations and how to effectively communicate within a team when installing sheeting and cladding systems on roofs and walls							
7.6	describe how and when to maintain the tools and equipment used when installing sheeting and cladding systems on roofs and walls.							

Unit 724 Installing sheeting and cladding systems on roofs and walls in the work

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:	