

Unit 251 Installing components for warm and cold roof construction in the workplace

10 credits

Level: 2
UAN: M/503/9914

Unit aim:

The aim of this unit is to provide you with an awareness of:

- interpreting information
- adopting safe and healthy working practices
- selecting materials, components and equipment
- preparing and installing underlay, battens, counter-battens, ventilation systems, rafter level insulation, ceiling level insulation, supporting timbers and ancillary components to form roofing backgrounds for new and/or reroof work

*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 components for warm and cold roof construction.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
1.1 interpret and extract relevant information from contractor's working instructions.							
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. contractor's working instructions							
b. manufacturers' information							
c. regulations governing buildings							
d. procedures for dealing with damaged and incorrect materials and/or resources.							

2. Know how to comply with relevant legislation and official guidance when installing components for warm and cold roof construction.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
2.1 describe your responsibilities regarding potential accidents and health hazards:							
a. in the workplace							
b. at height							
c. with tools and equipment							
d. with materials and substances							
e. with movement/storage of materials and 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 components for warm and cold roof construction.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
3.1 use Personal Protective Equipment (PPE) and access equipment/working platforms safely to carry out the activity in accordance with current legislation and organisational requirements when installing components for warm and cold roof construction.							
3.2 explain why, when Personal Protective Equipment (PPE) should be used, relating to installing components for warm and cold roof construction, and the:							
a. types							
b. purpose							
c. limitations of each type							

3.3	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 components for warm and cold roof construction.								
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. underlays								
b. battens								
c. counter-battens								
d. quilt and rigid insulation								
e. ventilation systems								
f. timber								
g. batten stops								
h. hand tools and ancillary 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 methods of work.						
4.6	describe how to calculate:						
	a. quantity						
	b. length						
	c. area associated with the method/procedure to install components for warm and cold roof construction.						

5. Minimise the risk of damage to the work and surrounding area when installing components for warm and cold roof construction.							
You must be able to:		*PER	SO	OQ	WQ	WT	PS PD
5.1	protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.						
5.2	minimise 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	state 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 components for warm and cold roof construction.							
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 work schedules/diaries, 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 install components for warm and cold roof construction to the required specification.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
7.1 demonstrate the following work skills when installing components for warm and cold roof construction:							
a. measuring							
b. cutting							
c. marking out							
d. fitting							
e. positioning							
f. securing							
7.2 install warm and cold roof components to roofs with ridges, verges, hips and valleys and abutments to given working instructions for the following:							
a. underlay, battens and counter-battens							
b. ventilation systems							
c. rafter level insulation							
d. ceiling level insulation							
e. access hatch insulation							
f. batten stops							
g. supporting timbers (valleys, hips, ridges, abutments and openings)							
h. ancillary components.							

7.3	safely use hand tools, power tools and ancillary equipment.						
7.4	safely store the tools and equipment used when installing components for warm and cold roof construction.						
7.5	describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:						
	a. fix underlay to roof design, battens and counter-battens						
	b. install ventilation systems						
	c. install rafter level insulation						
	d. install ceiling level insulation						
	e. install access hatch insulation						
	f. remove ineffective insulation from roof area						
	g. check and maintain adequate ventilation						
	h. install batten stops						
	i. install supporting timber at hips, valleys, ridges, abutments and openings						
	j. install vapour control layers						
	k. use hand tools and ancillary equipment						
	l. work at height						
	m. use access equipment.						
7.6	describe the needs of other occupations and how to effectively communicate within a team when installing components for warm and cold roof construction.						
7.7	describe how to maintain the tools and equipment used when installing components for warm and cold roof construction.						

Unit 251

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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:	