Unit 688 Repairing and maintaining built up bituminous roofing in the workplace

16 credits

Level: 2
UAN: A/600/7607

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

- interpret information
- adopt safe and healthy working practices
- select materials, components and equipment
- identifying and repairing defects in built up bituminous roofs.

*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 repairing and maintaining built up bituminous roofing.							
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**							
e. **oral/written instructions**							
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/written procedures for dealing with damaged and incorrect materials and/or resources.							

2. Know how to comply with relevant legislation and official guidance when repairing and maintaining built up bituminous roofing.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
2.1 describe your responsibilities under current legislation and official guidance whilst working:							
a. in the workplace							
b. at height							
c. with tools and equipment							
d. with materials and substances							
e. with movement/storage of materials							
f. by manual handling							
g. by 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 state what the accident reporting procedures are and who is responsible for making reports.							
2.4 state the types of fire extinguishers available when repairing and maintaining built up bituminous roofing and describe how and when they are used.							

3. Maintain safe working practices when repairing and maintaining built up bituminous roofing.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
3.1 **use Personal Protective Equipment (PPE) and access equipment safely to carry out the activity in accordance with legislation and organisational requirements when repairing and maintaining built up bituminous roofing**							
3.2 explain why and when Personal Protective Equipment (PPE) should be used, relating to repairing and maintaining built up bituminous roofing, and the:							
a. types of each type							
b. purpose of each type							
c. limitations of each type							
3.3 state 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.							
3.4 **demonstrate the safe use of a fire extinguisher relevant to a typical fire associated with repairing and maintaining built up bituminous roofing as relevant to the operations.**							

4. Select the required quantity and quality of resources for the methods of work to repair and maintain built up bituminous roofing.							
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. bitumen							
b. torch-on felts							
c. pedestrian surfacing							
d. solar protection							
e. vapour control layers							
f. outlets							
g. gutters							
h. vents							
i. base and cap sheets							
j. flashings							
k. edge trims							
l. associated fixings and fittings							
m. hand tools							
n. equipment							
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 describe how to apply simple:							

a. multiplication							
b. subtraction							
c. addition							
d. division to occupational tasks when repairing and maintaining built up bituminous roofing.							
4.5 outline potential hazards associated with the resources and method of work.							

5. Minimise the risk of damage to the work and surrounding area when repairing and maintaining built up bituminous roofing.							
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:							
a. general workplace activities							
b. other occupations							
c. 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 repairing and maintaining built up bituminous roofing.							
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 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 repair and maintain built up bituminous roofing to the required specification.							

You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
7.1 **demonstrate the following work skills when repairing and maintaining built up bituminous roofing**:							
a. **identifying**							
b. **evaluating**							
c. **removing**							
d. **measuring**							
e. **marking out**							
f. **cutting**							
g. **fitting**							
h. **applying**							
i. **positioning**							
j. **securing**							
7.2 **repair and maintain, to contractor's working instructions, built up bituminous roofing and associated materials and components with:**							
a. **cracks and blisters**							
b. **cap sheets/surface materials**							
c. **leaks**							
d. **damaged insulation/decking**							
e. **debris and blockages**							
f. **upstands**							
7.3 describe how to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them, to:							
a. identify and evaluate defects							
b. carry out appropriate repairs and maintenance							
c. apply pour and roll applications							

d. apply torch-on applications							
e. use bitumen boilers and torches							
f. install kerbs, edges, drips, outlets, upstands, trims, pipes, openings, gutters, stop ends and flashing details							
g. use hand tools and equipment							
h. work at height from buildings							
i. use access equipment							
7.4 **safely use and store hand tools and ancillary equipment**							
7.5 state the needs of other occupations and how to communicate within a team when repairing and maintaining built up bituminous roofing							
7.6 describe how to maintain the tools and equipment used when repairing and maintaining built up bituminous roofing.							

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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:	