Unit 250 Installing basic plumbing in the workplace

16 credits

Level: 2
UAN: R/600/7483

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
- remove and install domestic plumbing, water and waste services (from the isolation point only) to kitchens and/or bathrooms and/or bedrooms
- work on new, alteration or refurbishment contracts.

*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 basic plumbing.							
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. regulations governing buildings.							

2. Know how to comply with relevant legislation and official guidance when installing basic plumbing.							
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.							

3. Maintain safe working practices when installing basic plumbing.							
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 installing basic plumbing**							
3.2 explain why and when Personal Protective Equipment (PPE) should be used, relating to installing basic plumbing, and the:							
a. types							
b. purpose							
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.							

4. Select the required quantity and quality of resources for the methods of work to install basic plumbing.							
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. sinks, basins, baths, WCs, bidets, shower trays							
b. copper and plastic pipes, waste outlets, taps, valves and pumps							
c. sealants and adhesives							
d. associated fixings and fittings							
e. hand and/or powered tools and ancillary 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:							
a. how the resources should be used correctly							
b. how problems associated with the resources are reported							
c. 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:							
a. quantity							
b. length							
c. area							
d. wastage associated with the method/procedure to install basic plumbing.							

5. Minimise the risk of damage to the work and surrounding area when installing basic plumbing.							
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							
5.6 **consult with client regarding protection of property and belongings.**							

6. Complete the work within the allocated time when installing basic plumbing.							
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 install basic plumbing 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 basic plumbing:**							
a. **measuring**							
b. **marking out**							
c. **fitting**							
d. **finishing**							
e. **positioning**							
f. **securing**							
7.2 **remove and install kitchen and/or bathroom and/or bedroom appliances (from the isolation point only) in compliance with current regulations and contractor's working instructions, relating to the following as appropriate to the installation:**							
a. **sinks, basins, baths, WCs, bidets**							
b. **taps, waste services, waste disposal, shower trays and shower valves**							
c. **laundry appliances, dishwashers**							
7.3 describe how to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them, to:							
a. remove and install sinks							
b. remove and install basins							
c. remove and install baths							
d. remove and install taps							
e. remove and install waste services							
f. remove and install WCs							
g. remove and install Bidets							
h. remove and install shower trays							
i. remove and install shower valves							

j. remove and install pumps							
k. remove and install laundry appliances							
l. remove and install dishwashers							
m. carry out bending of copper pipes							
n. use compression and capillary copper fittings							
o. use compression, push fit and plastic weld fittings							
p. connect hot and cold water supplies							
q. use hand and/or power tools and ancillary equipment							
7.4 **safely use and store:**							
a. **store hand tools**							
b. **portable power tools**							
c. **ancillary equipment**							
7.5 state the needs of other occupations and how to communicate within a team when installing basic plumbing							
7.6 describe how to maintain the tools and equipment when installing basic plumbing.							

Unit 250 Installing basic plumbing in the workplace

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:	