INSTALL SANITARY APPLIANCES

UNIT CODE: CON/OS/PL/CR/02/3/A

Unit Description

This unit specifies the competencies required to install sanitary appliances. It involves interpreting drawings, quantifying appliances and supplies, fixing sanitary appliances as well as testing working sanitary appliances. It applies in the construction industry.

ELEMENTS AND PERFORMANCE CRITERIA

Element These describe the key outcomes	Performance Criteria These are assessable statements which
These describe the key outcomes which make up workplace function	
	specify the required level of performance
	for each of the elements
	Bold and italicized terms are elaborated
	in the Range
1. Interpret working	Assessment requires evidence that the
drawing	candidate:
	1.1 Drawings are differentiated based on <i>type of</i>
	drawing.
	1.2 The scale of the drawing is read based on the
	provided key.
	1.3 Imperial measurements are converted in to metric
	measurements based on conversion table.
	1.4 Symbols are identified based on internationally
	accepted codes
	1.5 Isometric piping drawings are drawn based on
	internationally accepted codes.
2. Interpret manufacturers drawings	2.1 Manufacturers drawing of sanitary appliances are interpreted as presented.
drawings	2.2 Assembling of sanitary appliances is done as per manufacturers' Instructions
	2.3 Supply pipes are connected as per manufacturers'
	instructions
3. Quantify sanitary	3.1 <i>Materials</i> required for fixing are identified based on
appliances	requirements of the job.

	 3.2 Supplies required for fixing are identified based on manufacturers' instructions. 3.3 <i>Schedule</i> of sanitary appliances is prepared based on the drawing. 3.4 <i>Tools and equipment</i> needed for fixing appliances are selected based on the type of sanitary appliance instructions.
4. Fix sanitary appliances	 4.1 Tools and equipment are used based manufacturer's instructions. 4.2 Appliance <i>positioning</i> is determined based on working drawings. 4.3 <i>Support</i> for sanitary appliances is put in place based on manufacturers' specifications 4.4 Sanitary appliances are mounted based on manufacturer's installation manual. 4.5 <i>Quality checks</i> and parameters are done in accordance to industry standards. 4.6 <i>Personal Protective Equipment</i> is used in line with occupational safety and health regulations
5. Test and commission working of sanitary appliances	5.1 Functionality of the appliance is tested based on manufacturer's manual and requirements.5.2 Faults in appliance functionality and leakage are corrected based on manufacturers' procedures.5.3 The works are commissioned in accordance to job requirements

RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

Variables	Range
1. Materials may include	• Screws
but not limited to	Adhesives
	Cement
	Sand

2. Tools and equipment may include but not limited to:	 Pipes Traps Gutters Electric cables Caulking material Pipe wrench Pipe cutter Hacksaw Pipe Threading Equipment Vise - Bench Tap and Punch Files Screwdrivers Drill with various sizes of bits Mallet Ball hammer Masonry chisel PPR machine / Heat Fusion equipment Pipe bender Trowel
3. Personal Protective Equipment (PPE) include but not limited to:	 Hardhat Gloves Dustcover / overall Safety shoes / boots
4. Types of appliances include but not limited to:	 Wash hand basin Water closet Bath tub Urinal Bidet Kitchen sink Jacuzzi Shower head
5. Positioning include but not limited to:	Standard positioningSpecial positioning

6. Specifications include but not limited to:	 Manufacturer's specifications Engineer's specifications Client's specifications
7. Faults include but not limited to:	Installation faultsManufacturer's faults
8. Quality checks and parameters may include but not limited to:	LevelnessPlumpnessAccuracy
9. Support may include but not limited to:	Self-supportProvided support

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit of competency.

Required Skills

The individual needs to demonstrate the following skills:

- Drawing and interpretation skills
- Problem-solving skills
- Critical-thinking skills
- Organizing skills
- Measuring skills
- Numeracy skills
- Cutting skills
- Threading skills
- Fusion skills
- Bending skills
- Quality of materials identification skills

Required knowledge

The individual needs to demonstrate knowledge of:

- Conversion of units
- Measurement

- Fusion
- Bending
- Mensuration
- Types of cloaking materials
- Types of valves
- Types of appliances
- Types of traps
- Testing
- Special appliances and
- New technologies

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

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4.	Context of	Assessment may be done:
	Assessment	4.1 On-the –job
		4.2 Off-the –job
		4.3 During work placement
5.	Guidance	Holistic assessment with other units relevant to the industry sector
	information for	workplace and job role is recommended
	assessment	

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