

INSTALL SANITARY APPLIANCES

UNIT CODE: CON/OS/PL/CR/04/4/A

UNIT DESCRIPTION

This unit covers the competencies required to install sanitary appliances. It involves interpreting working and manufacturers' drawings, quantifying sanitary appliance, mounting sanitary appliances, testing the working of sanitary appliances and carrying out housekeeping activities.

This standard applies in the construction sector.

ELEMENTS AND PERFORMANCE CRITERIA

| ELEMENT These describe the key outcomes which make up workplace function . | PERFORMANCE CRITERIA These are assessable statements which specify the required level of performance for each of the elements. <i>Bold and italicized terms are elaborated in the Range</i> |
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| 1. Interpret working drawing | 1.1 Working drawing are interpreted based on technical drawings standards. 1.2 The scale of the drawing is read based on the legend 1.3 Imperial measurements are converted into metric measurements based on conversion table. 1.4 Symbols are identified based on technical drawings standards 1.5 Reference points are identified on the ground based on the site drawing. |
| 2. Interpret manufacturers drawings | 2.1 Manufacturers drawing of sanitary appliances are interpreted as presented. 2.2 Assembling of sanitary appliances is identified and interpreted as per manufacturers' drawing. |
| 3. Quantify sanitary appliances | 3.1 Materials required for fixing are identified based on requirements of the job. 3.2 Supplies required for fixing are identified based on the drawings. 3.3 Materials and supplies required are measured and counted based on working drawings and specifications 3.4 Schedule of sanitary appliances is prepared based on the drawing. |

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| 4. Mount sanitary appliances | <p>4.1 Tools and equipment needed for mount appliances are identified based on the type of sanitary appliance.</p> <p>4.2 Appliance positioning is determined based on working drawings.</p> <p>4.3 Tools and equipment are used based best practices.</p> <p>4.4 Support for sanitary appliances are put in place based on manufacturers' instructions.</p> <p>4.5 Sanitary appliances are mounted based on best practices.</p> <p>4.6 Parameter checks are done in accordance to industry standards.</p> |
| 5. Test working of sanitary appliances | <p>5.1 Functionality of the appliance is tested based on best practices.</p> <p>5.2 Faults in appliance functionality are corrected based on best practices</p> <p>5.3 The works are commissioned in accordance to job requirements</p> |
| 6. Carryout housekeeping activities | <p>6.1 Wastes are segregated and disposed of in line with environment protection guidelines.</p> <p>6.2 Tools and equipment are cleaned and storage as per manufacturers' instructions.</p> <p>6.3 Surplus materials and supplies are stored as per manufacturers' instructions.</p> <p>6.4 Records are kept as per workplace procedure.</p> |

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 |
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| 1. Materials may include but not limited to: | <ul style="list-style-type: none"> • Screws • Adhesives • Cement • Sand • Pipes • Traps • Gutters • Electric cables |

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| | <ul style="list-style-type: none"> • Caulking material |
| 2. Positioning may include but not limited to: | <ul style="list-style-type: none"> • standard positioning • special positioning |
| 3. Faults may include but not limited to: | <ul style="list-style-type: none"> • installation faults • manufacturer's faults |
| 4. Parameter checks may include but not limited to: | <ul style="list-style-type: none"> • Levelness • Plumpness • Accuracy of measurements |

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
- Bending skills
- Joining and jointing skills

Required Knowledge

The individual needs to demonstrate knowledge of:

- Interpretation of symbols

- Conversion of units
- Measurement
- Types of drawings
- Types of scales
- Joining and jointing
- Bending methods
- Mensuration
- Materials and supplies
- Types of caulking materials
- Types of valves
- Types of sanitary appliances
- Types of traps
- Testing methods.
- Faults.
- Special appliances
- 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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| <p>1. Critical Aspects of Competency</p> | <p>Assessment requires evidence that the candidate:</p> <ul style="list-style-type: none"> 1.1 Interpreted working drawings correctly. 1.2 Quantified materials, supplies and appliances accurately. 1.3 Positioned appliances based on specifications. 1.4 Fixed functional sanitary appliances correctly. 1.5 Tested functionality of sanitary appliances correctly 1.6 Conducted housekeeping on work area appropriately 1.7 Observed safety and health practise correctly |
| <p>2. Resource Implications</p> | <p>The following resources must be provided:</p> <ul style="list-style-type: none"> 2.1 A functional workshop with basic plumbing tools, instruments and equipment 2.2 Materials and supplies necessary for the tasks 2.3 Reference and maintenance manuals 2.4 Personal protective equipment |

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| 3. Methods of Assessment | <p>Competency may be assessed through:</p> <p>3.1 Observation</p> <p>3.2 Written test</p> <p>3.3 Third party report</p> <p>3.4 Portfolio</p> <p>3.5 Oral questioning</p> <p>3.6 Interviewing</p> |
| 4. Context of Assessment | <p>4.1 On-the-job</p> <p>4.2 Off-the-job</p> <p>4.3 Work placement</p> |
| 5. Guidance information for assessment | <p>Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.</p> |

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