

INSTALL BUILDING SERVICES

UNIT CODE: CON/OS/BUT/CR/05/4/A

UNIT DESCRIPTION

This Unit describes the competencies required to install building services. It involves installing water supply systems, Sanitary appliances, drainage systems and electrical conduit building and fittings.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key outcomes which make up workplace function	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>
1. Install water supply systems	1.1 Water supply systems drawings are sketched as per architectural and structural drawings 1.2 Water supply systems materials are identified according to plumbing service drawings 1.3 Plumbing tools and equipment are identified as per materials and job requirements 1.4 Water supply systems are fixed according to standard operating procedures
2. Install sanitary appliances	2.1 <i>Sanitary appliances</i> are identified according to plumbing service drawings 2.2 Plumbing tools and equipment are identified as per materials and job requirements 2.3 Sanitary appliances are installed according to manufacturer's specifications
3. Install drainage systems	3.1 Drainage systems drawings are sketched as per architectural and structural drawings 3.2 Drainage systems materials are identified according to plumbing service drawings 3.3 Plumbing tools and equipment are identified as per materials and job requirements 3.4 Drainage systems are fixed according to standard operating procedures

4. Install electrical conduit, tubing and fittings	4.1 Determine <i>installation requirements</i> and select conduit, tubing and fittings 4.2 Determine routing of conduit and tubing 4.3 Measure, cut, thread and bend conduit and tubing 4.4 Assemble, position, mount and support conduit, tubing and fittings 4.5 Determine requirements for removal of existing conduit, tubing and fittings if applicable when performing an upgrade 4.6 Remove conduit, tubing and fittings when replacing and update documentation
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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.

Variable	Range
1. Sanitary appliances may include but is not limited to:	<ul style="list-style-type: none"> • Basins • Showers • Water heaters • Water closets
2. Installation requirements may include but is not limited to:	<ul style="list-style-type: none"> • Purpose of the conduit, tubing and fitting • Equipment required for installation, • Installation environment in locations such as hazardous, wet, underground, or outdoor

REQUIRED KNOWLEDGE AND SKILLS

Knowledge

- Measurement
- Survey
- Basic arithmetic
- Plan interpretation
- Occupational safety and health
- Codes of practice
- Environment Act
- Plumbing connections

Skills

- Threading, cutting and fixing
- Pipe bending
- Measurement
- Basic mathematic
- Interpretation
- Communication
- Problem solving
- Critical thinking
- Construction tools handling

EVIDENCE GUIDE

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

1. Critical Aspects of Competency	Assessment requires evidence that the candidate: 1.1 Sketched simple plumbing services layout 1.2 Installed simple plumbing services 1.3 Tested simple plumbing services 1.4 Installed electrical conduit and tubing
2. Resource Implications	The following resources should be provided: 2.1 Training/assessment workshops 2.2 Construction tools and equipment 2.3 Occupational Safety and health manuals 2.4 Qualified trainers 2.5 Codes of practice
3. Methods of Assessment	Competency may be assessed through: 3.1 Written assignments 3.2 Written Exams 3.3 Practical projects 3.4 Practical exams 3.5 Oral questioning 3.6 Observation of work procedures
4. Context of Assessment	Competency may be assessed 4.1 On job 4.2 Off job 4.3 During Industrial Attachment.
5. Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.

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