

CONSTRUCT ONSITE SANITATION FACILITIES

UNIT CODE: CON/OS/CET/CR/12/6/A

UNIT DESCRIPTION

This unit covers the competencies required to construct onsite sanitation facilities. It involves Preparing construction schedule, organizing the construction site and construction of the various onsite sanitation facilities

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>
1. Prepare construction schedule	1.1 Engineering drawings are Interpreted based on the engineering codes 1.2 Construction activities are identified based on scope of work 1.3 Project management timelines are Prepared based on project specifications
2. Organize the construction Site	2.1 Site is cleared and secured based on the contract document. 2.2 Human resource, construction plant and equipment are identified and mobilized based on the contract document 2.3 Onsite infrastructure is put in place based on contract document and legal requirements
3. Construct the various onsite sanitation facilities	3.1 Construction materials are sourced and mobilized based on the bill of quantities 3.2 Onsite sanitation facilities are set out based on the engineering drawings. 3.3 Onsite sanitation facility units are constructed based on the design drawings 3.4 Labor payments are done based on the progress report and attendance list. 3.5 As-built drawings are prepared and submitted based on the actual construction works 3.6 Substantial completion certificate is prepared based on FIDIC regulations 3.7 Payment certificate is prepared based on progress report. 3.8 Completion certificate is prepared based on the legal 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
Construction activities on construction schedule may include but not limited to:	<ul style="list-style-type: none"> • Surveying • Excavation • Laying and jointing • Setting out • Alignment and gradient • Timbering to trenches • Backfilling • Concrete works • Steel works • Timber works • Roofing • Electrical works • Plumbing works • Finishes
On-site infrastructures in the construction Site may include but not limited to:	<ul style="list-style-type: none"> • Stores • Site office • Fences • Site latrine
Construction materials and tools may include but not limited to:	<ul style="list-style-type: none"> • Cement • Aggregates(course and fine) • bricks • stones • timber • steel • Tape measure • Hack saws • Pipe wrenches • Leveling tools • Hammer • Set of protective gear
Onsite sanitation facility units may include but not limited to:	<ul style="list-style-type: none"> • Septic Tanks • Bio-Digesters • Anaerobic Baffled Reactors • Latrines- pit, VIP, Aqua privy • Soak Pits • Imhoff tank

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:

Generic skills:

- Communication
- Analytical
- Organizing
- Decision making
- Planning
- Record keeping
- Problem solving
- First aid
- Supervising
- Time management

Technical skills:

- Analysis
- Reporting
- Performance appraising
- Trouble shooting
- Data logging
- Technical specifications
- Safety measures
- Statutory regulations
- Surveying skills
- Plumbing and Pipefitting
- Construction skills
- Site organization

Required Knowledge

The individual needs to demonstrate knowledge of:

- Technical specifications
- Statutory regulations
- Quality Assurance
- Computer Aided design

- Occupational health, safety
- Statistics
- Wastewater treatment processes
- Soil analysis methods
- Surveying
- Statutory regulations and legislation in water
- Engineering mathematics
- Technical drawing
- Onsite sanitation facilities
- Waste water characteristics
- Construction management

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 Prepared construction schedule 1.2 Organised construction site 1.3 Constructed various onsite sanitation facilities
2. Resource Implications	The following resources must be provided: 2.1 Concrete lab 2.2 Soil laboratory 2.3 Surveying equipment 2.4 Construction plant 2.5 Timber workshop 2.6 Plumbing and Pipe workshop 2.7 Electro mechanical workshop 2.8 Human resource
3. Methods of Assessment	Competency may be assessed through: 3.1 Practical 3.2 Verbal assessment 3.3 Written assessment 3.4 Construction reports 3.5 Industrial attachment 3.6 Project
4. Context of Assessment	Assessment may be done: 4.1 On job training 4.2 Coursework 4.3 Industrial assessment

5. Guidance information for assessment	Holistic assessment with other units relevant to the building sector workplace and job role is recommended.
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