



ASSESSMENT MATERIAL EVIDENCE GUIDE

Qualification

Biogas Plant

Supervisor

Fixed Dome

CS Code:

Level: 3

Credit: 5

Version: 1

SELECT SUITABLE TYPE AND APPROPRIATE SIZE OF BIODIGESTER AND CARRY OUT BASIC CALCULATIONS

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ASSESSMENT AND ASSESSOR DETAILS

Competent

☐

Not Yet Competent

☐

Assessment

☐

Re-Assessment

☐

Assessor's Name

Assessor's Code

Assessor's Signature

Date

DD		MM		YYYY					

CANDIDATE DETAILS

Candidate's Name

First Name

Last Name

Father's Name

Institute Name and District

CNIC/BFORM #

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Registration Number issued by
Assessment Body

Gender

Male

☐

Female

☐

Transgender

☐

Candidate's Consent

I agree to the time and date of the assessment and am aware of the requirements of the assessment. I fully understand my rights of appeal.

Candidate's Signature

ASSESSMENT RESULTS SUMMARY FORM

You can use this coversheet as an *Assessment Results Summary Form*. Simply post a photocopy of this completed coversheet to **NAVTTTC**

NAVTTTC OFFICE ONLY

1. DATE

FORM

RECEIVED:

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DD MM YYYY

2. DATE ENTERED INTO

DATABASE:

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DD

MM

YYYY

1

ASSESSMENT SUMMARY & RECORD

ACTIVITY	METHOD				DESIRED OUTCOMES	RESULT	
NATURE OF ACTIVITY	WRITTEN	ORAL	PORTFOLIO	OBSERVATION	DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF COMPETENCY STANDARD: SELECT SUITABLE TYPE AND APPROPRIATE SIZE OF BIODIGESTER AND CARRY OUT BASIC CALCULATIONS	COMPETENT	NOT YET COMPETENT
Practical Skill Demonstration				✓	Select suitable type and appropriate size of biodigester and carry out basic calculations for the construction of fixed dome biogas plant.		
Knowledge Assessment	✓	✓			Answer all questions your Assessor may have during the practical assessment.		
Other Requirements			✓		N/A		

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CANDIDATE ASSESSMENT

Candidate's Name..... Father's Name

ALL WORK ASSESSED IN THIS COMPETENCY STANDARD MUST BE YOUR OWN WORK.

GUIDANCE TO CANDIDATE

To meet this standard you are required to complete the following tasks within **one hour** timeframe:

- Calculate the size of fixed dome biogas plant at farm/house

Important Note: The following general performance criteria will be followed and performed in all the tasks (where applicable by the candidate in order to meet this standard:

- Follow precautionary procedures as per requirements of the given tasks
- Select, use and maintain equipment/ tools as per requirement of the task
- Report to supervisor in case of any emergency after taking necessary actions
- Complete the work by following sequence of the operations
- Perform task(s) within standard timeframe

ACTIVITIES	CANDIDATE RESPONSE
1. Complete practical task of selecting suitable type and appropriate size of biodigester and carry out basic calculations under observation by an assessor	During a practical assessment, under observation by an assessor, I will correctly : • Calculate size of fixed dome biogas plant at farm/house ✓ Estimate the quantity of feeding material required for fixed dome biogas digester at farm/house ✓ Quantify the biogas produced by biogas plant at farm/house ✓ Calculate the size of fixed dome biogas plant at farm/house on the basis of feeding material, biogas quantity produced and retention time • General Performance Criteria ✓ Follow precautionary procedures as per requirements of the given tasks ✓ Select, use and maintain equipment/ tools as per requirement of the task ✓ Report to supervisor in case of any emergency after taking necessary actions ✓ Complete the work by following sequence of the operations ✓ Perform task(s) within standard timeframe
2. Other requirements	• N/A
3. Answer any questions your assessor may have during the practical assessment	My answers to questions are correct and demonstrate my understanding of the topics and their application.

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ASSESSOR JUDGEMENT GUIDE

Candidate's Name Father's Name.....

INSTRUCTIONS FOR ASSESSOR

This section contains minimum evidence requirements. Oral questioning may be used to clarify candidate understanding of the topic and its application.

ACTIVITIES	MINIMUM EVIDENCE REQUIRED	YES	NO	ASSESSOR COMMENTS
1. Complete practical task of selecting suitable type and appropriate size of biodigester and carry out basic calculations under observation by an assessor	During a practical assessment, under observation by an assessor, the candidate correctly carried out the following tasks:			
Calculate size of fixed dome biogas plant at farm/house	Estimated the quantity of feeding material required for fixed dome biogas digester at farm/house			
	Quantified the biogas produced by biogas plant at farm/house			
	Calculated the size of fixed dome biogas plant at farm/house on the basis of feeding material, biogas quantity produced and retention time			
General Performance Criteria	Followed precautionary procedures as per requirements of the given tasks			
	Selected, used and maintained equipment/ tools as per requirement of the task			
	Reported to supervisor in case of any emergency after taking necessary actions			
	Completed the work by following sequence of the operations			
	Performed task(s) within standard timeframe			
2. Other requirements	N/A			

3. Answer any questions the assessor may have during the practical assessment	Candidate's answers to questions are correct and demonstrate understanding of the topics and their application. Assessor to document below all questions asked and candidate answers. Use extra sheets if required and attach.			
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LIST OF TOOLS, EQUIPMENT, MATERIAL AND CONTEXT OF ASSESSMENT

INSTRUCTIONS	This section contains information regarding; - Context of the assessment - List of required tools and equipment. - List of consumable items required during the service
1. Context of Assessment	This task will be performed in real time environment.

2. List of tools and equipment required (for five candidates)		
S. No	Items	Quantity
1	White board	5
2	Prototype biogas digester	1
3	Flip chart	5
4	Calculators	5

3. List of consumable items required (for five candidates)		
S. No	Items	Quantity
1	pencil	5
2	Flip chart	5
3	Writing pad	5