



ASSESSMENT MATERIAL EVIDENCE GUIDE

Qualification

Biogas Plant
Supervisor Floating
Drum

CS Code:

Level: 3

Credit: 5

Version: 1

SUPERVISE THE INSTALLATION OF PIPELINE, APPLIANCES AND ELECTRO-MECHANICAL COMPONENTS

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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 NAVTTC

NAVTTC 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: SUPERVISE THE INSTALLATION OF PIPELINE, APPLIANCES AND ELECTRO-MECHANICAL COMPONENTS	COMPETENT	NOT YET COMPETENT
Practical Skill Demonstration				✓	Supervise the installation of pipeline, appliances and electro-mechanical components for floating drum bio-digester of 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:

- Supervise the installation of pipe lines and accessories for construction of floating drum bio-digester of biogas plant.
- Monitor the installation of purification system and pump for construction of floating drum bio-digester of biogas plant.

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 supervising the installation of pipeline, appliances and electro-mechanical components under observation by an assessor	During a practical assessment, under observation by an assessor, I will correctly : • Supervise the installation of pipe lines and accessories for construction of floating drum bio-digester of biogas plant ✓ Monitor the joining of pipes for installation of floating type bio-digester for biogas plant by using fitter and sealing agent ✓ Supervise the fixing of biogas stove, heater, rice-cooker, generator and lamp as per requirements of the user ✓ Monitor the installation of pressure gauge, gas-flow meter and temperature gauge for floating type bio-digester for biogas plant • Monitor the installation of purification system and pump for construction of floating drum bio-digester of biogas plant ✓ Monitor the installation of CO₂ scrubber, H₂S and moisture remover for purification of gas in floating drum bio-digester of biogas plant ✓ Select the size of pump/generator for floating drum bio-digester on the basis of gas demand ✓ Supervise the installation of pump/generator and control system for floating drum bio-digester • 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 supervising the installation of pipeline, appliances and electro-mechanical components under observation by an assessor	During a practical assessment, under observation by an assessor, the candidate correctly carried out the following tasks:			
Supervise the installation of pipe lines and accessories for construction of floating drum bio-digester of biogas plant	Monitored the joining of pipes for installation of floating type bio-digester for biogas plant by using fitter and sealing agent Supervised the fixing of biogas stove, heater, rice-cooker, generator and lamp as per requirements of the user Monitored the installation of pressure gauge, gas-flow meter and temperature gauge for floating type bio-digester for biogas plant			
Monitor the installation of purification system and pump for construction of floating drum bio-digester of biogas plant	Monitored the installation of CO ₂ scrubber, H ₂ S and moisture remover for purification of gas in floating drum bio-digester of biogas plant Selected the size of pump/generator for floating drum bio-digester on the basis of gas demand Supervised the installation of pump/generator and control system for floating drum bio-digester			
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	Personal protective equipment (PPE)	05
2	Prototype biogas digester	01
3	Construction video	01
4	Calculators	05
5	Measuring tap	05
6	Plumb- bob	05
7	Water level	05
8	Mason's Trowel	05
9	Hexa-frame and blade sets	05
10	Pipe wrench – 9" and 12"	05
11	Plier/slide wrench	05
12	Spanners	05

3. List of consumable items required (for five candidates)		
S. No	Items	Quantity
1	Plastic Gloves (Pairs)	05