



ASSESSMENT MATERIAL

EVIDENCE GUIDE

Qualification

Industrial Electrician

CS Code:

Level: 2

Credit: 26

Version: 1

PERFORM PREVENTIVE MAINTENANCE AS PART OF ELECTRICAL OPERATIONS

CONTENTS

1. Assessment Summary and Record
2. Candidate Assessment
3. Assessor Judgment Guide
4. List of required tools/equipment, material and context of assessment

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:

DD		MM		YYYY					

2. DATE ENTERED INTO DATABASE:

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: PERFORM PREVENTIVE MAINTENANCE AS PART OF ELECTRICAL OPERATIONS	COMPETENT	NOT YET COMPETENT
Practical Skill Demonstration				✓	Perform preventive maintenance as part of electrical operations.		
Knowledge Assessment	✓	✓			Answer all questions your Assessor may have during the practical assessment.		
Other Requirements			✓		N/A		

2

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:

- Carry out the preventive maintenance of three phase motor starter and controller

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 performing preventive maintenance as part of electrical operations under observation by an assessor	During a practical assessment, under observation by an assessor, I will correctly : • Carry out the preventive maintenance of three phase motor starter and controller ✓ Interpret layout/circuit diagram of three phase motor starter and controller (Annexure-1) ✓ Measure and record the voltage and current of three phase motor starter and controller with Multi meter ✓ Check the working of Magnetic Contactor, Push Buttons (ON and OFF) and Overload Relay of three phase motor starter and controller ✓ Clean non-working Magnetic Contactor, Push Buttons (ON and OFF) and Overload Relay of three phase motor starter and controller ✓ Test the working of three phase motor starter and controller after repair/cleaning/replacement of Magnetic Contactor, Push Buttons (ON and OFF) and Overload Relay • 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.

3

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 performing preventive maintenance as part of electrical operations under observation by an assessor	During a practical assessment, under observation by an assessor, the candidate correctly carried out the following tasks:			
Carry out the preventive maintenance of three phase motor starter and controller	Interpreted layout/circuit diagram of three phase motor starter and controller (Annexure-1)			
	Measured and recorded the voltage and current of three phase motor starter and controller with Multi meter			
	Checked the working of Magnetic Contactor, Push Buttons (ON and OFF) and Overload Relay of three phase motor starter and controller			
	Cleaned non-working Magnetic Contactor, Push Buttons (ON and OFF) and Overload Relay of three phase motor starter and controller			
	Tested the working of three phase motor starter and controller after repair/cleaning/replacement of Magnetic Contactor, Push Buttons (ON and OFF) and Overload Relay			
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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4

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	Tool kits, chisel, hammer, mallet	5
2	Drill machine, megger, bearing puller, pipe wrench	5
3	Clamp on meter, AVO meter, cable knife	5

3. List of consumable items required (for five candidates)		
S. No	Items	Quantity
1	Ducts, PVC pipe, steel nails	As per requirement
2	Screws, insulation tape	As per requirement
3	Wiring cables, elbows junction boxes.	As per requirement

Annexure-1

