



ASSESSMENT MATERIAL

EVIDENCE GUIDE

Qualification

LEN0112.v1

Level: 2

Credit: 10

Version: 1

LEN0112C.v1 Perform preventive maintenance as part of electrical operations

CONTENTS

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

ASSESSMENT AND ASSESSOR DETAILS

Competent

☐

Not Yet Competent

☐

Assessment

☐

Re-Assessment

☐

Assessor Name:

Assessor Code

Assessor Signature

Date

DD		MM		YYYY					

CANDIDATE DETAILS

Candidate Name:

First Name

Last Name

Father Name

Institute Name and
District

CNIC/BFORM #

OR

Registration Number:

Gender

Male

☐

Female

☐

Candidate 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 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:

DD		MM		YYYY					

2. DATE ENTERED INTO
DATABASE:

DD		MM		YYYY					

1

ASSESSMENT SUMMARY & RECORD

CANDIDATE NAME:

FATHER NAME:

ACTIVITY		METHOD			DESIRED OUTCOMES	RESULT	
NATURE OF ACTIVITY	WRITTEN	ORAL	OBSERVATION	PORTFOLIOS	DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF COMPETENCY STANDARD: PERFORM PREVENTIVE MAINTENANCE AS PART OF ELECTRICAL OPERATIONS	COMPETENT	NOT YET COMPETENT
Practical skill demonstration			✓		• Carry out preventive maintenance of single phase electrical motor 2HP • Perform measurements of basic electrical parameter of single phase motor 2HP • Perform routine inspection of single phase electrical motor 2HP		
Knowledge Assessment	✓	✓			• Answer any questions your assessor may have for you during the practical skill demonstration ✓		
Other Requirements				✓	• All candidate formative assessments completed by Instructor including; ○ Observations ○ Demonstrations ○ Questions and recorded answers • All work produced as module projects and assignments • Completed learner logbooks • Completed work records		

2

CANDIDATE ASSESSMENT

Candidate Name:

Father 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 practical tasks within 6 hour on the following topics:

- **Carry out preventive maintenance of single phase electrical motor 2HP**
- **Perform measurements of basic electrical parameter of single phase motor 2HP**
- **Perform routine inspection of single phase electrical motor 2HP**

ACTIVITIES	CANDIDATE RESPONSE
1. Complete practical assessment	During a practical assessment, under observation by an assessor, I will correctly: • Carry out preventive maintenance of single phase electrical motor 2HP ✓ selection of tools and equipment for carry out preventive maintenance of single phase motor ✓ Identifying technical fault of single phase motor 2HP ✓ Carrying out procedures for routine checks voltage check ampere check, oil check, water level • Perform measurements of basic electrical parameter of single phase motor 2HP ✓ Performing basic measurements tests Load voltage ,load current ,frequency ,RPM ✓ Performing minor adjustments and calibrations of single phase motor 2HP ✓ Replacing worn out or damaged parts bearings and bushes of single phase motor 2HP ✓ Cleaning up and storing tools use in troubleshooting for single phase motor 2HP • Perform routine inspection of single phase electrical motor 2HP: ✓ Perform quality inspection (Supply check. Voltage level sequence check load current battery level ,rpm ,frequency at full load of single phase electrical motor 2 HP ✓ Cleaning up and storing tools, equipment and material use for routine inspection of single phase electrical motor 2HP
2. Complete knowledge assessment	My answers to questions are correct and demonstrate my understanding of the topics and their application:
3. Other requirements	• All candidate formative assessments completed by Instructor including; ✓ Observations ✓ Demonstrations ✓ Questions and recorded answers • All work produced as module projects and assignments • Completed learner logbooks • Completed work records

3

ASSESSOR JUDGEMENT GUIDE

Candidate Name:

Father Name:

INSTRUCTIONS FOR ASSESSOR

THIS SECTION CONTAINS MINIMUM EVIDENCE REQUIREMENTS.

The supplied electrical appliance requiring preventive maintenance must meet the evidence requirements of the candidate's competence in performing preventive maintenance as part of electrical operations.

Set timeframe for practical skill demonstration must reflect the commercially viable timeframe for the tasks.

Oral questioning may be used to clarify candidate understanding of the topic and its application.

ACTIVITIES	MINIMUM EVIDENCE REQUIRED	YES/NO	ASSESSOR COMMENTS
1. Completed practical assessment	During a practical assessment, under observation by an assessor, the candidate correctly carried out:		
2. Carried out preventive maintenance of single phase motor 2HP	✓ selected of tools and equipment for carry out preventive maintenance of single phase motor ✓ Identified technical fault of single phase motor 2HP ✓ Carried out procedures for routine checks voltage check ampere check, oil check, water level		
3. Performed measurements of basic electrical parameter of single phase motor 2HP	• Performed measurements of basic electrical parameter of single phase motor 2HP ✓ Performed basic measurements tests Load voltage ,load current ,frequency ,RPM ✓ Performed minor adjustments and calibrations of single phase motor 2HP ✓ Replaced worn out or damaged parts bearings and bushes of single phase motor 2HP		
Performed routine inspection of single phase motor 2HP	• ✓ Performed quality inspection (Supply check. Voltage level sequence check load current battery level ,rpm ,frequency at full load of single phase electrical motor 2 HP ✓ Cleaned up and storing tools, equipment and material use for routine inspection of single phase electrical motor 2HP ✓ Performed quality inspection (Supply check. Voltage level sequence check load current battery level ,rpm ,frequency at full load of single phase electrical motor 2 HP Meeting set timeframe appropriate for supplied electrical appliance requiring preventive maintenance		
4. Knowledge assessment	Candidate's answers to questions are correct and demonstrate understanding of the topics and their application. <i>Assessor to document below all questions asked and candidate answers. Use extra sheets if required and attached here.</i>		

5. Other requirements	• All candidate formative assessments completed by Instructor including; ✓ Observations ✓ Demonstrations ✓ Questions and recorded answers • All work produced as module projects or assignments • Measuring instrument calibration records • Completed logbooks • Completed work records			
------------------------------	---	--	--	--

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 appliances required during the assessment
1. Context of Assessment	This practical skill demonstration will be conducted in a Building Electricians' lab/workshop environment The Assessor will select the required tools, equipment and consumables from the list below for the assessment

S. No	2. List of tools, equipment and consumables	Quantity
1	Pointer (Red , Yellow , Blue)	05 each
2	Knowledge assessment including space for answers	05 each
3	Personal protective equipment	05 each
4	Fire extinguishers	01 each
5	First aid box	01 each
6	Adjustable wrench	05 each
7	Amp meter	05 each
8	AVO meter	05 each
9	Batteries	02 each
10	Battery charger	01 each
11	Bench vice	05 each
12	Ceiling hole cutter	05 each
13	Charge controller	01 each
14	Chisel	01 each
15	Clamp on meter	05 each
16	Compass	05 each
17	Cutter	05 each
18	Drill machine	02 each
19	Earth tester meter	02 each
20	Extension board	02 each
21	File set	05 each
22	Inter changeable screw driver	05 each
23	Gloves	05 each
24	Goggles	05 each
25	Grinder	02 each
26	Hammer	05 each
27	Hand drill machine	02 each
28	Helmet	05 each
29	Herts meter	05 each
30	Hacksaw	05 each
31	Knife (cable)	05 each
32	Level	05 each
33	L-key set	05 each
34	Lock plier	05 each
35	Measuring tape	05 each
36	Mega meter (Analog & Digital)	02 each
37	Micrometre	02 each
38	Multimeter	05 each
39	Number punch	02 each
40	Phase sequence meter	02 each
41	Pipe cutter	05 each
42	Pipe vice	02 each
43	Pipe wrench	05 each

44	Plier set	05 each
45	Punching tool (Networking /Telephone)	05 each
46	Ratchet set	05 each
47	Safety boots	05 each
48	Scissor	05 each
49	Screw driver set	05 each
50	Soldering iron	05 each
51	Spanner set	05 each
52	Steel scale	05 each
53	Wire stripper	05 each
54	Grip plier	05 each
55	PVC Wire 3/.029	01 coil
56	PVC Wire 7/.029	01 coil
57	PVC Wire 7/.044	01 coil
58	PVC Wire 1/.044	01 coil
59	Magnetic conductor	10 nos
60	Over load relay (as required current rating)	10 nos
61	Circuit breaker	10 nos
62	Main switch	05 nos
63	Fuses (Different Current Ratings)	05 nos
64	PVC pipe (Different Sizes)	200 ft
65	Single pole switch	12 nos
66	Two way switch	12 nos
67	3 / 2 / pin socket	12 nos each
68	PVC Duck	As per requirement
69	Lamp Holders	As per requirement
70	PVC Board (Different Sizes)	As per requirement