

**ASSESSMENT
MATERIAL****EVIDENCE
GUIDE****Qualification**

LEN0112J.v1

Level: 2**Credit: 8****Version: 1****LEN0112J.v1 Use and maintain electrical
tools and equipment****CONTENTS**

1. Assessment Summary and Record
2. Candidate Assessment
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**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					

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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: USE AND MAINTAIN ELECTRICAL TOOLS AND EQUIPMENT	COMPETENT	NOT YET COMPETENT
Knowledge Assessment	✓	✓			○ Answer all questions of the Assessment Panel will have ask to topic related and oral presentation of completed project		
Practical activity			✓		● Use electrical tools and equipment in wiring lab ● Maintain electrical tools, equipment and instruments ● Calibrate measuring instruments according to WAPDA specification single phase and three phase		
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 ● Measuring instrument calibration records		

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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 set timeframe:

- **Use electrical tools and equipment in wiring lab**
- **Maintain electrical tools, equipment and instruments**
- **Calibrate measuring instruments according to WAPDA specification single phase and three phase**

ACTIVITIES	CANDIDATE RESPONSE
1. Complete project brief of applying building electrician (Assistant) skills on solar photovoltaic (PV) systems under observation by Instructor	Answer all questions in the knowledge assessment on the following topics: Use electrical tools and equipment in wiring lab • Identify and select tools, equipment and instruments use in wiring lab • Demonstrate safe use of tools, equipment and instruments use in wiring lab • Clean and store electrical tools, equipment and instruments use in wiring lab Maintain electrical tools, equipment and instruments • Check abnormality in function of electrical tools, equipment and instruments • Conform insulation of electrical tools, equipment and instruments • Apply safety measure for use electrical tools, equipment and instruments • Clean and store electrical tools, equipment and instruments Calibrate measuring instruments according to WAPDA specification single phase and three phase • Check calibration of measuring instruments volt meter ampere meter watt meter frequency meter AVO meter, Clamp meter' Zero error. • Check reading of measuring instruments volt meter ampere meter watt meter frequency meter AVO meter, Clamp meter
2. 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 • Measuring instrument calibration records

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ASSESSOR JUDGEMENT GUIDE

Candidate Name:

Father 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. Completed practical assessment	During a practical assessment, under observation by an assessor, the candidate correctly carried out:		
2. Use electrical tools and equipment in wiring lab	- Identify and select tools, equipment and instruments use in wiring lab - Demonstrate safe use of tools, equipment and instruments use in wiring lab - Clean and store electrical tools, equipment and instruments use in wiring lab - Identify and select tools, equipment and instruments use in wiring lab		
3. Maintain electrical tools, equipment and instruments	- Check abnormality in function of electrical tools, equipment and instruments - Conform insulation of electrical tools, equipment and instruments - Apply safety measure for use electrical tools, equipment and instruments		
4. Calibrate measuring instruments according to WAPDA specification single phase and three phase	- Check calibration of measuring instruments volt meter ampere meter watt meter frequency meter, AVO meter, Clamp meter' Zero error. - Check reading of measuring instruments volt meter ampere meter watt meter frequency meter AVO meter, Clamp meter		
5. 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 - Measuring instrument calibration records		

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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 practical skill demonstration will be conducted in a Building Electrician's lab/workshop environment

2. List of consumable items required		
S. No	Consumable and non-consumable Items	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 Duckt	As per requirement
69	Lamp Holders	As per requirement
70	PVC Board (Different Sizes)	As per requirement