

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

LEN0142.v1

Level: 2**Credit: 8****Version: 1**

LEN0142H.v1 Use and maintain plumbing tools and equipment

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: USE AND MAINTAIN PLUMBING TOOLS AND EQUIPMENT	COMPETENT	NOT YET COMPETENT
Practical skill demonstration			✓		• Use plumbing tools and equipment • Perform bench work • Perform basic arc welding • Maintain plumbing tools and equipment		
Knowledge Assessment		✓			Answer all questions my assessor may have during the practical assessment		
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 set timeframe:

- Use plumbing tools and equipment
- Perform bench work
- Perform basic arc welding
- Maintain plumbing tools and equipment

ACTIVITIES	CANDIDATE RESPONSE
1. Complete practical assessment of using and maintaining plumbing tools and equipment under observation by an assessor	During an assessment by an Assessor I will correctly carry out: Using plumbing tools and equipment • Identify and select tools, equipment and instruments • Demonstrate safe use of tools, equipment and instruments Perform bench work • Secure work piece firmly • Use metal processing tools to perform chip removal forming processes • Use metal processing tools to perform chip-less forming processes Perform basic arc welding • Prepare materials • Perform arc welding Maintain plumbing tools and equipment • Describe preventive maintenance procedures • Maintain and/or replace tool insulation • Clean and store plumbing tools, equipment and instruments Meet set timeframes for using and maintaining plumbing tools and equipment
2. Complete knowledge assessment	Answer all questions my assessor may have during the practical assessment
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 • Measuring instrument calibration records

3

ASSESSOR JUDGEMENT GUIDE

Candidate Name:

Father Name:

INSTRUCTIONS FOR ASSESSOR

THIS SECTION CONTAINS MINIMUM EVIDENCE REQUIREMENTS.

The supplied plumbing system requiring use of plumbing tools and equipment must meet the evidence requirements of the candidate's competence in using plumbing tools and equipment

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. Complete practical assessment of using and maintaining plumbing tools and equipment under observation by an assessor	During a practical assessment, under observation by an assessor, the candidate correctly carried out:		
	Using plumbing tools and equipment		
	Identify and select tools, equipment and instruments		
	Demonstrate safe use of tools, equipment and instruments		
	Perform bench work		
	Secure work piece firmly		
	Use metal processing tools to perform chip removal forming processes		
	Use metal processing tools to perform chip-less forming processes Maintaining batteries		
	Perform basic arc welding		
	Prepare materials		
	Perform arc welding		
	Maintain plumbing tools and equipment		
	Describe preventive maintenance procedures		
	Maintain and/or replace tool insulation		
	Clean and store plumbing tools, equipment and instruments		
	Meeting set timeframes for using and maintaining plumbing tools and equipment		
2.	Answer all questions my assessor may have during the practical assessment		
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 - Measuring instrument calibration 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 items required during the service
1. Context of Assessment	This practical skill demonstration will be conducted in a Plumber's lab/workshop environment The Assessor will select the required tools, equipment and consumables from the list below for the assessment

2. List of tools and equipment required		
S. No	Tools and equipment	Quantity
1	Adjustable wrench 6",8",12"	
2	Pipe Bender Machine Hydraulic complete set	
3	Chisel set	
4	Trowel	
5	Electric Drill machine(hammering with healti)3/4"	
6	Die (Ratchet),Die Fix 1/2,3/4,1,2	
7	Extension board 10 meter 2 core	
8	First Aid box	
9	Gloves lather, rubber	
10	Safety goggles Plastic, glass	
11	Hand Electric Grinder Electric Wall Cutter	
12	Grip plier 10"	
13	Hammer 250gm,500gm,1000gm,1500gm,2000gm	
14	Hand bit 1/4" , 3/8"	
15	Helmet ABS Material	
16	Hacksaw 12" with blade	
17	Spirit Level 6",12",8"	
18	L-key set Star L key Set	
19	Measuring tape meter ,10 meter	
20	Pipe wrench ,10",12",14",18"	
21	Plass (pipe cutter) 1/2" , 2"	
22	PPRC Heater 750W to 1000W	
23	PPR/Gi cutter 10" Gi Pipe Cutter 1/2 to 2"	
24	Safety boots(Shoes)	
25	Screw driver set 6",8",10",12"	
26	Spanner set 6mm to 24mm	
27	Testing pump (leakage) (Hand type)	
28	Tools box iron+3 draws	
29	Torch Chargeable	
30	Vice with iron stand(2nos)	
31	Compass Spring type 8"	
32	Solar Water Heater (Complete Set) Different denominations of different types	
33	Water Filling Pumps Centrifugal pump 1/2" Reciprocating 1/2	
34	Pipe Insulation Material	
35	Sealing Tapes	
36	Bench Vice 5" with bench	
37	Oil Can	
38	Center Punch	

39	Wire Brush	
40	Pipe Reemar	
41	Tap Set 1/8", 1/4", 3/8", 1/2", 3/4", 1" with handle	
42	Air Compressor 10 bar	
43	Tri square 6", 8"	

3. List of consumable items required		
S. No	Consumable items	Quantity
1	Gi Pipe 1/2", 3/4", 1"	
2	Gi fitting 1/2", 3/4", 1" (Elbow, tee, socket etc.)	
3	PPRC pipe 25mm, 32mm	
4	PPRC fitting 25mm, 32mm	
5	PVC pipe 2", 3", 4"	
6	U PVC 2", 3", 4"	
7	P trap 4"	
8	Solution PVC	
9	All types of valves 1/2", 3/4", 1"	
10	Plastic Pipe 1/2", 3/4", 1"	
11	Cp Fitting	