

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

LEN0142.v1

**Level: 2****Credit: 9****Version: 1****LEN0142G.v1 Join fittings and pipes****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**

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| 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:**

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**2. DATE ENTERED INTO  
DATABASE:**

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# 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: JOIN FITTINGS AND PIPES                                                                                                                                                                                                                                                                                                                             | COMPETENT | NOT YET COMPETENT |
| Practical skill demonstration |         |        | ✓           |            | <ul style="list-style-type: none"> <li>Join fittings and pipes</li> </ul>                                                                                                                                                                                                                                                                                                                                              |           |                   |
| Knowledge Assessment          |         | ✓      |             |            | <ul style="list-style-type: none"> <li>Answer any questions your assessor may have for you during the practical skill demonstration</li> </ul>                                                                                                                                                                                                                                                                         |           |                   |
| Other Requirements            | ✓       | ✓      | ✓           | ✓          | <ul style="list-style-type: none"> <li>All candidate formative assessments completed by Instructor including;                             <ul style="list-style-type: none"> <li>Observations</li> <li>Demonstrations</li> <li>Questions and recorded answers</li> </ul> </li> <li>All work produced as module projects and assignments</li> <li>Completed learner logbooks</li> <li>Completed work records</li> </ul> |           |                   |

# 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 1 hour timeframe on the following topics:

- Join fittings and pipes

| ACTIVITIES                                                                                      | CANDIDATE RESPONSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Complete practical assessment of joining fittings and pipes under observation by an assessor | <p>During a practical assessment, under observation by an assessor, I will correctly:</p> <ul style="list-style-type: none"> <li>• Join fittings and pipes including: <ul style="list-style-type: none"> <li>○ Identify and select tools and equipment</li> <li>○ Measure pipes</li> <li>○ Cut pipes to length</li> <li>○ Join pipes and fittings</li> </ul> </li> <li>• Meeting set timeframe appropriate for supplied plumbing system requiring joining fittings and pipes</li> </ul> |
| 2. Complete knowledge assessment                                                                | <p>My answers to questions are correct and demonstrate my understanding of the topics and their application:</p>                                                                                                                                                                                                                                                                                                                                                                        |
| 3. Other requirements                                                                           | <ul style="list-style-type: none"> <li>• All candidate formative assessments completed by Instructor including; <ul style="list-style-type: none"> <li>○ Observations</li> <li>○ Demonstrations</li> <li>○ Questions and recorded answers</li> </ul> </li> <li>• All work produced as module projects and assignments</li> <li>• Completed learner logbooks</li> <li>• Completed work records</li> </ul>                                                                                |

# 3

## ASSESSOR JUDGEMENT GUIDE

Candidate Name:

Father Name:

### INSTRUCTIONS FOR ASSESSOR

THIS SECTION CONTAINS MINIMUM EVIDENCE REQUIREMENTS.

The supplied plumbing system requiring joining of fittings and pipes must meet the evidence requirements of the candidate's competence in performing layout and excavation tasks.

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. <b>Completed practical assessment of joining fittings and pipes under observation by an assessor</b> | <p>During a practical assessment, under observation by an assessor, the candidate correctly carried out:</p> <ul style="list-style-type: none"> <li>Joining fittings and pipes including: <ul style="list-style-type: none"> <li>Identify and select tools and equipment</li> <li>Measure pipes</li> <li>Cut pipes to length</li> <li>Join pipes and fittings</li> </ul> </li> <li>Meeting set timeframe appropriate for supplied plumbing system requiring layout and excavation</li> </ul> |        |                   |
| 2. <b>Knowledge assessment</b>                                                                          | <p>Candidate's answers to questions are correct and demonstrate understanding of the topics and their application.</p> <p><i>Assessor to document below all questions asked and candidate answers. Use extra sheets if required and attached here.</i></p>                                                                                                                                                                                                                                   |        |                   |
| 3. <b>Other requirements</b>                                                                            | <ul style="list-style-type: none"> <li>All candidate formative assessments completed by Instructor including; <ul style="list-style-type: none"> <li>Observations</li> <li>Demonstrations</li> <li>Questions and recorded answers</li> </ul> </li> <li>All work produced as module projects and assignments</li> <li>Completed logbooks</li> <li>Completed work records</li> </ul>                                                                                                           |        |                   |

# 4

## LIST OF TOOLS, EQUIPMENT, MATERIAL AND CONTEXT OF ASSESSMENT

|                          |                                                                                                                                                                                                                                              |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>instructions</b>      | <p>This section contains information regarding;</p> <ul style="list-style-type: none"> <li>Context of the assessment</li> <li>List of required tools and equipment.</li> <li>List of consumable items required during the service</li> </ul> |
| 1. Context of Assessment | <p>This practical skill demonstration will be conducted in a Plumber's lab/workshop environment</p> <p>The Assessor will select the required tools, equipment and consumables from the list below for the assessment</p>                     |

| 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                                          |          |