



ASSESSMENT MATERIAL

EVIDENCE GUIDE

Qualification code:
LEN0153.v1
Level: 3
Credit: 80
Version: 1

Apply Plumber (Technician) skills for solar water heating systems

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 RESULT AND ASSESSMENT PANEL DETAILS

Competent	☐	Not Yet Competent	☐															
Assessment	☐	Re-Assessment	☐															
Candidate's Instructor name:																		
Candidate's Instructor signature:																		
Private Sector Expert's name:																		
Private Sector Expert's signature:																		
Assessor's Name:		Assessor Code:																
Assessor's Signature:		Date <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>DD</td><td>MM</td><td colspan="4"></td><td>YYYY</td></tr></table>										DD	MM					YYYY
DD	MM					YYYY												

CANDIDATE DETAILS

Candidate Name:																				
Father Name	First Name	Last Name																		
Institute Name and District																				
CNIC #	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																			
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 AND RECORD

ACTIVITY	METHOD				DESIRED OUTCOMES	RESULT	
NATURE OF ACTIVITY	WRITTEN	ORAL	PORTFOLIO	OBSERVATION	DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF: APPLY PLUMBER SOLAR HEATING TECHNICIAN SKILLS	COMPETENT	NOT YET COMPETENT
Practical final project	✓	✓	✓	✓	Complete supplied project brief related to application of Plumber Solar Heating Technician skills: • Apply knowledge of entrepreneurial ideas • Plan work and calculate cost • Install, commission and maintain solar water heating system • Install gas heating appliances • Install fittings and pipes • Install sanitary ware		
Knowledge assessment		✓			• Answer all questions the Assessment Panel will have following oral presentation of completed project brief		
Other requirements	✓	✓	✓	✓	• All completed formative assessments including: ○ Observations ○ Demonstrations ○ Questions and recorded answers • All completed course assignments and projects including: ○ Drawings and sketches of plumbing layouts ○ Calculations of materials, labour costs and overall costs • Completed work forms/records • Completed job cards • Evidence of development of business plan which includes: ○ Financial plan ○ Service and product delivery ○ Marketing strategy		

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CANDIDATE ASSESSMENT

Candidate Name..... Father Name

ALL WORK ASSESSED FOR THESE COMPETENCY STANDARDS MUST BE YOUR OWN WORK.

GUIDANCE TO CANDIDATE

To meet this standard you are required to:

- Apply Plumber Solar Heating Technician skills

ACTIVITIES	CANDIDATE RESPONSE
1. Complete portfolio of evidence	• All completed formative assessments including: ○ Observations ○ Demonstrations ○ Questions and recorded answers • All completed course assignments and projects including: ○ Drawings and sketches of plumbing layouts ○ Calculations of materials, labour costs and overall costs • Completed work forms/records • Completed job cards • Evidence of development of business plan which includes: ○ Financial plan ○ Service and product delivery ○ Marketing strategy
2. Complete project brief of applying Plumber Solar Heating Technician skills under observation by Instructor	• I will correctly complete requirements of supplied project brief under the following conditions: ○ In a group or individually, as required by project brief ○ Supplied brief will require a 5 day period to complete in a workshop environment Your Assessment Panel will be looking for your competence in: ○ Demonstrating task skills, task management (integration of tasks), managing any contingencies which may arise and task outcomes throughout the project timeframe ○ Applying knowledge and skill in the working environment
3. Present completed project brief to Assessment Panel	• Oral presentation of project brief and completed project work to Assessment Panel. • Presentation to include: ○ Requirements of brief ○ Planning and preparation of project ○ Problems encountered and how they were dealt with ○ Project outcome/s ○ Lessons learnt from undertaking project (reflective thinking) • Presentation to take no longer than 10 minutes
4. Answer all questions Assessor Panel will have following project presentation	My answers to questions are correct and demonstrate my understanding of the topics and their application.

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ASSESSOR JUDGEMENT GUIDE

Candidate Name Father Name

INSTRUCTIONS FOR ASSESSMENT PANEL

THIS SECTION CONTAINS MINIMUM EVIDENCE REQUIREMENTS.

- The Assessment Panel will consist of three members: a registered Assessor, the candidate's Instructor and an expert from the private sector.
- The project brief will consist of integrated task requirements to enable the candidate to supply sufficient evidence of their competence in the skills required to work as a Plumber Solar Heating Technician
- The project brief must be suitable for the level of knowledge and skills required (i.e. Level 3)
- The timeframe for completion of assigned project brief is 5 working days
- The candidate may work in a team or as an individual to complete the project brief. If in a team, the contribution of each candidate must be clearly defined and observable.

ACTIVITIES	MINIMUM EVIDENCE REQUIRED	YES/NO	ASSESSOR COMMENTS ON CANDIDATE PERFORMANCE
1. Completes all course assignments	• All completed formative assessments including: ○ Observations ○ Demonstrations ○ Questions and recorded answers • All completed course assignments and projects including: ○ Drawings and sketches of plumbing layouts ○ Calculations of materials, labour costs and overall costs • Completed work forms/records • Completed job cards • Evidence of development of business plan which includes: ○ Financial plan ○ Service and product delivery ○ Marketing strategy		
2. Complete project brief of applying plumber (Assistant) skills on solar photovoltaic (PV) systems under observation by Instructor	Completed requirements of supplied project brief under the following conditions:		
	• In a group or individually, as required by project brief		
	• Supplied brief will require a 5 day period to complete in a workshop environment		
	• Demonstrating task skills, task management (integration of tasks), managing any contingencies which may arise and task outcomes throughout the project timeframe		
3. Present completed project brief to Assessment Panel	• Applying knowledge and skill in the working environment		
	Oral presentation of project brief and completed project work to Assessment Panel.		
	Presentation to include:		
	• Requirements of brief • Planning and preparation of project • Problems encountered and how they were dealt with		
	• Project outcome/s • Lesson learnt (reflective thinking)		

ACTIVITIES	MINIMUM EVIDENCE REQUIRED	YES/NO		ASSESSOR COMMENTS ON CANDIDATE PERFORMANCE
	Presentation to take no longer than 10 minutes			
4. Answer all questions Assessment Panel will have following project presentation	Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application. Assessment Panel to document all questions asked, if any, and the answers here. Use extra pages as required and attach here. 			

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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 final project will be conducted in a Plumber's lab/workshop environment.

Required tools, equipment and consumables will vary according to project brief.