



ASSESSMENT MATERIAL EVIDENCE GUIDE Qualification LEN0142.v1 Level: 2 Credit: 15 Version: 1	LEN0142I.v1 Demonstrate knowledge of solar water heating system types																											
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ASSESSMENT AND ASSESSOR DETAILS	<table><tr><td>Competent</td><td>☐</td><td>Not Yet Competent</td><td>☐</td></tr><tr><td>Assessment</td><td>☐</td><td>Re-Assessment</td><td>☐</td></tr><tr><td>Assessor Name:</td><td colspan="3">Assessor Code</td></tr><tr><td>Assessor Signature</td><td colspan="3">Date</td></tr><tr><td></td><td></td><td>DD</td><td>MM</td></tr><tr><td></td><td></td><td>YYYY</td><td></td></tr></table>	Competent	☐	Not Yet Competent	☐	Assessment	☐	Re-Assessment	☐	Assessor Name:	Assessor Code			Assessor Signature	Date					DD	MM			YYYY				
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ASSESSMENT RESULTS SUMMARY FORM	You can use this coversheet as an <i>Assessment Results Summary Form</i> . Simply post a photocopy of this completed coversheet to NAVTTTC																											
NAVTTTC OFFICE ONLY	<table><tr><td>1. DATE FORM RECEIVED:</td><td>DD</td><td>MM</td><td>YYYY</td><td>2. DATE ENTERED INTO DATABASE:</td><td>DD</td><td>MM</td><td>YYYY</td></tr></table>	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: DEMONSTRATE KNOWLEDGE OF SOLAR WATER HEATING SYSTEM TYPES	COMPETENT	NOT YET COMPETENT
Knowledge Assessment		✓			Answer all questions in the knowledge assessment on the following topics: • Demonstrate basic knowledge of solar water heating systems • Demonstrate knowledge of solar water heating system components • Outline hazards associated with solar water heating		
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		

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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 knowledge assessment within 1 hour timeframe on the following topics:

- Demonstrate basic knowledge of solar water heating systems
- Demonstrate knowledge of solar water heating system components
- Outline hazards associated with solar water heating

ACTIVITIES	CANDIDATE RESPONSE
1. Complete knowledge assessment	Answer all questions in the knowledge assessment on the following topics: Demonstrate basic knowledge of solar water heating systems: • Describe the direct or open loop solar water heating system in terms its operation • Describe the indirect or closed loop solar water heating system in terms its operation • Discuss advantages and disadvantages of each system Demonstrate knowledge of solar water heating system components: • Describe solar collector options • Describe storage tank options • Explain solar water heating valves and piping • Discuss backup heating options Outline hazards associated with solar water heating • Define hazards associated with installation of solar water heating systems • Define hazards associated with maintenance of solar water heating systems
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. Complete knowledge assessment	Answer all questions in the knowledge assessment on the following topics:		
	Demonstrate basic knowledge of solar water heating systems:		
	Describe the direct or open loop solar water heating system in terms its operation		
	Describe the indirect or closed loop solar water heating system in terms its operation		
	Discuss advantages and disadvantages of each system		
	Demonstrate knowledge of solar water heating system components:		
	Describe solar collector options		
	Describe storage tank options		
	Explain solar water heating valves and piping		
	Discuss backup heating options		
2. Other requirements	Outline hazards associated with solar water heating		
	Define hazards associated with installation of solar water heating systems		
	Define hazards associated with maintenance of solar water heating systems		
	- 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 Items	Quantity
1	Pen	1 per candidate
2	Knowledge assessment with sufficient space for answers	1 per candidate