



Refrigeration and Air Conditioning

HPMP tools skills assessment

Observation check list			
Candidate name:	[Redacted]		
Assessor name:	[Redacted]		
License applied for:	[Redacted]		
Date of assessment:			
Procedure:	The following tasks will be observed in a simulated workplace environment. The participant will be deemed Competent or Not yet competent . If not yet competent, another time will be set for the candidate to attempt the tasks.		
Did the candidate perform the following skills:	Yes	No	N/A
1 Flaring Demonstration			
1.1 Pipework is cleaned to standard procedures	✓		
1.2 Tubing is cut and prepared correctly	✓		
1.3 Flare is of correct proportions and dimensions	✓		
2 Recovery Demonstration			
2.1 All necessary tools are assembled	✓		
2.2 Equipment is checked to confirm safety and serviceability	✓		
2.3 Refrigerant is identified correctly	✓		
2.4 The refrigeration system is checked for leaks	✓		
2.5 The refrigeration system is checked for <i>contamination</i>	✓		
2.6 The refrigerant is recovered in accordance with standard operating procedures , codes and regulations	✓		
2.7 The refrigerant recovered from the refrigeration system is contained in accordance with the relevant codes and regulations.	✓		
2.8 The refrigeration system is evacuated in accordance with standard operating procedures, codes and regulations.	✓		
3 Evacuation Demonstration			
3.1 The refrigeration system is evacuated in accordance with standard operating procedures, codes and regulations.	✓		
3.2 Correct vacuum pump maintenance is identified	✓		
4 Recharge Demonstration			
4.1 The refrigeration system is charged with the correct refrigerant in accordance with standard operating procedures	✓		
4.2 The refrigeration system is checked for leaks.	✓		

The candidate was found to be:	Competent <input checked="" type="checkbox"/>	Not Yet Competent <input type="checkbox"/>
Feedback to candidate: <p style="text-align: center;"><i>[Redacted]</i></p>		
Assessors signature:	<i>[Redacted]</i>	<i>[Redacted]</i>
Candidate signature:	<i>[Redacted]</i>	<i>[Redacted]</i>
<p>Notes to assessors:</p> <p>This assessment is provided to existing workers in the refrigeration and air conditioning trade for the purpose of assessing the candidates' suitability to receive, service and maintain the specialist refrigeration tools provided by MNRE and UNEP for HPMP Samoa.</p> <p>A person who demonstrates competency in these procedures must be able to test, recover, evacuate and charge refrigeration systems. Competency in these procedures cannot be claimed until all prerequisites have been satisfied.</p> <p>Look for evidence that confirms knowledge of:</p> <ul style="list-style-type: none"> • operating principles of refrigeration systems • characteristics, properties and operating specifications of each type of refrigerant • safety precautions and work practices to be undertaken when handling or working with refrigerants • methods of identifying stored refrigerants • methods of identifying the type of refrigerant used in refrigeration systems • relevant codes and regulations applying to refrigeration systems • procedures and safety precautions for testing/checking refrigeration systems • corrective actions for system and component faults including appropriate basic electrical safety checks • types of leak detection equipment/techniques and their applications • causes of contamination in refrigeration systems and their effect on refrigeration system performance • procedures, tools and equipment to be used to clean up contaminated systems • care and use of vacuum pumps • tools, techniques and equipment required to carry out recovery procedures • procedures for storing/disposing of recovered refrigerant • consequences of releasing quantities of refrigerant into the atmosphere • procedures for charging refrigeration systems • tools, techniques and equipment required to charge a refrigeration system with refrigerant • precautions to be taken when charging by various methods, refrigeration systems with refrigerant 		