

SELF-ASSESSMENT GUIDE

Qualification:	RAC SERVICING (PACU/CRE) NC III		
Certificate of Competency 1:	<ul style="list-style-type: none"> • Install and Service PACU 		
Units of Competency Covered:	<ul style="list-style-type: none"> • Install PACU • Service and Maintain PACU • Troubleshoot and Repair PACU • Perform start-up, testing and commissioning PACU 		
Instruction: <ul style="list-style-type: none"> • Read each of the questions in the left-hand column of the chart. • Place a tick in the appropriate box opposite each question to indicate your answers. 			
Can I?	YES	NO	
INSTALL , START UP, TEST AND COMMISSION PACU			
• Survey site for installation*			
• Prepare result of survey in line with enterprise procedures*			
• Prepare piping, electrical materials and accessories consistent with the approved designs and manufacturer's specifications*			
• Mount indoor, condensing units and accessories in accordance with site conditions, lay out and manufacturer's specifications*			
• Install, clean, and test piping in accordance with manufacturer's specifications, recommendations and RAC Code of Practice*			
• Insulate piping in accordance with manufacturer's specification*			
• Lay-out and installs electrical system in accordance with the approved designs, specifications, working plans, drawings and applicable provisions of the latest edition of PEC*			
• Correct faults/problems arising from installation in line with standard operating procedures*			
• Perform housekeeping *			
• Prepare report on installation in line with enterprise procedures*			

SERVICE AND MAINTAIN PACU		
• Prepare for maintenance activities*		
• Observe work safety according to enterprise regulations		
• Clean indoor/outdoor coils in accordance with manufacturer's maintenance manual.		
• Check refrigerant piping for abnormal conditions based on procedure.		
• Adjust accessories settings, if necessary based on manufacturer's maintenance manual.		
• Detect and rectifies oil leaks and restrictions based on standard maintenance procedures		
• Dispose used oil properly according to environmental regulation		
• Measure and analyzes operating parameters based on standard specifications		
• Check and record pressure and temperature drops across strainer, filters and filter driers based on standard maintenance procedures		
• Perform leak testing based on RAC Code of Practice.		
• Maintain air flow distribution system in PACU		
• Perform housekeeping*		
• Prepares report on service and maintenance in line with enterprise procedures*		
• TROUBLESHOOT AND REPAIR PACU		
• Plan and prepare for troubleshooting and repair		
• Interpret appropriate wiring diagrams, charts and manuals in line with the job requirements		
• Identify and repair faults/problems		
• Select and use appropriate PPE in line with the job requirements		
• Test refrigeration system components and accessories following manufacturer's manual, RAC Code of Practice and/or enterprise troubleshooting policy		
• Diagnose faults/problems with refrigerant system in line with manufacturer's manual, RAC Code of Practice and/or enterprise troubleshooting policy		

<ul style="list-style-type: none"> • Take remedial action to overcome faults/problems in line with manufacturer's manual, RAC Code of Practice and/or enterprise troubleshooting policy* 		
<ul style="list-style-type: none"> • Perform leak testing, refrigerant recovery/ recycling, evacuation and charging of air conditioning systems in line with RAC Code of Practice or enterprise policy* 		
<ul style="list-style-type: none"> • Perform conversion of HCFC- based refrigeration unit to non-HCFC drop-in replacement in accordance with the RAC Code of Practice 		
<ul style="list-style-type: none"> • Observe safe working practices throughout the task as per enterprise procedure 		
<ul style="list-style-type: none"> • Test run air conditioning unit in accordance with enterprise procedures 		
<ul style="list-style-type: none"> • Perform housekeeping* 		
<ul style="list-style-type: none"> • Prepare report on troubleshooting and repair of air conditioning unit in line with enterprise procedures* 		
<p>I agree to undertake assessment in the knowledge that information gathered will only be used for professional development purposes and can only be accessed by concerned assessment personnel and my manager/supervisor.</p>		
<p>Candidate's Name:</p>	<p>Date:</p>	

SELF-ASSESSMENT GUIDE

Qualification:	RAC SERVICING (PACU/CRE) NC III	
Certificate of Competency 2:	<ul style="list-style-type: none"> • Install and Service CRE 	
Units of Competency Covered:	<ul style="list-style-type: none"> • Install CRE • Service and Maintain CRE • Troubleshoot and Repair CRE • Perform start-up, testing and commissioning CRE 	
Instruction: <ul style="list-style-type: none"> • Read each of the questions in the left-hand column of the chart. • Place a tick in the appropriate box opposite each question to indicate your answers. 		
Can I?	YES	NO
INSTALL, START UP, TEST AND COMMISSION CRE		
• Survey site for installation*		
• Prepare result of survey in line with enterprise procedures*		
• Prepare piping, electrical materials and accessories consistent with the approved designs and manufacturer's specifications*		
• Mount evaporator, condensing units and accessories in accordance with site conditions, lay out and manufacturer's specifications*		
• Install, clean, and test piping in accordance with manufacturer's specifications, recommendations and RAC Code of Practice*		
• Insulate piping in accordance with manufacturer's specification*		
• Lays-out and installs electrical system in accordance with the approved designs, specifications, working plans, drawings and applicable provisions of the latest edition of PEC*		
• Correct faults/problems arising from installation in line with standard operating procedures*		
• Perform housekeeping *		
• Prepare report on installation in line with enterprise procedures*		

SERVICE AND MAINTAIN CRE		
• Prepare for maintenance activities*		
• Observe work safety according to enterprise regulations		
• Clean evaporator /condenser coils in accordance with manufacturer's maintenance manual.		
• Check refrigerant piping for abnormal conditions based on procedure.		
• Adjust accessories settings, if necessary based on manufacturer's maintenance manual.		
• Detect and rectify oil leaks and restrictions based on standard maintenance procedures		
• Dispose used oil properly according to environmental regulation		
• Measure and analyze operating parameters based on standard specifications		
• Checks and records pressure and temperature drops across strainer, filters and filter driers based on standard maintenance procedures		
• Performs leak testing based on RAC Code of Practice.		
• Maintains air flow distribution system in CRE		
• Performs housekeeping*		
• Prepares report on service and maintenance in line with enterprise procedures*		
TROUBLESHOOT AND REPAIR CRE		
• Plans and prepares for troubleshooting and repair		
• Interprets appropriate wiring diagrams, charts and manuals in line with the job requirements		
• Identifies and repairs faults/problems		
• Selects and uses appropriate PPE in line with the job requirements		
• Tests refrigeration system components and accessories following manufacturer's manual, RAC Code of Practice and/or enterprise troubleshooting policy		
• Diagnoses faults/problems with refrigerant system in line with manufacturer's manual, RAC Code of Practice and/or enterprise troubleshooting policy		

<ul style="list-style-type: none"> • Takes remedial action to overcome faults/problems in line with manufacturer's manual, RAC Code of Practice and/or enterprise troubleshooting policy* 		
<ul style="list-style-type: none"> • Performs leak testing, refrigerant recovery/ recycling, evacuation and charging of air conditioning systems in line with RAC Code of Practice or enterprise policy* 		
<ul style="list-style-type: none"> • Performs conversion of HFC- based refrigeration unit to non-HFC drop-in replacement in accordance with the RAC Code of Practice 		
<ul style="list-style-type: none"> • Observes safe working practices throughout the task as per enterprise procedure 		
<ul style="list-style-type: none"> • Tests run refrigeration unit in accordance with enterprise procedures 		
<ul style="list-style-type: none"> • Performs housekeeping* 		
<ul style="list-style-type: none"> • Prepares report on troubleshooting and repair of refrigeration unit in line with enterprise procedures* 		
<p>I agree to undertake assessment in the knowledge that information gathered will only be used for professional development purposes and can only be accessed by concerned assessment personnel and my manager/supervisor.</p>		
<p>Candidate's Name:</p>	<p>Date:</p>	