

Reference. No.																			
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SELF - ASSESSMENT GUIDE

Qualification:	COMMERCIAL AIR-CONDITIONING INSTALLATION AND SERVICING NC III		
Unit of Competency covered:	<ul style="list-style-type: none"> • Install commercial air-conditioning unit • Service and maintain commercial air-conditioning unit • Troubleshoot and repair commercial air-conditioning unit • Perform start-up, testing and commissioning for commercial air-conditioning unit 		
Instruction: Read each question and check the appropriate column to indicate your answer.			
Can I?	YES	NO	
Survey site for installation			
• Interpret work instructions/technical plans/drawings as per job requirements*			
• Verify installation requirements in line with site conditions*			
• Prepare alteration/comments as per survey conducted			
• Prepare result of survey in line with enterprise procedures.			
Install commercial air-conditioning piping systems			
• Prepare piping materials consistent with the approved designs and specifications *			
• Mount brackets and supports in accordance with site conditions *			
• Install, clean and test piping in accordance with approved design and specifications and RAC Code of Practice *			
• Use and install correct insulation and sealing/adhesive materials in accordance with manufacturer's specifications *			
Install commercial air-conditioning electrical systems			
• Prepare electrical materials consistent with job requirements and checks for any damage			
• Select and use appropriate PPE, tools, instrument and equipment in line with the job requirements*			
• Install/connect electrical wirings in line with electrical design/ diagrams			

<ul style="list-style-type: none"> • Test/energize electrical system in line with applicable provisions of the latest edition of PEC * 		
<ul style="list-style-type: none"> • Prepare report on testing/energization of electrical system in line with enterprise procedures 		
Identify and repair faults/ problems		
<ul style="list-style-type: none"> • Select and use appropriate PPE in line with the job requirements 		
<ul style="list-style-type: none"> • Select and use suitable tools, instrument and equipment based on job requirement 		
<ul style="list-style-type: none"> • Test refrigeration system components following manufacturer's manual, RAC Code of Practice and/or enterprise troubleshooting policy 		
<ul style="list-style-type: none"> • Diagnose faults/problems with the air conditioning system in line with manufacturer's manual, RAC Code of Practice and/or enterprise troubleshooting policy * 		
Perform refrigerant recovery/ recycling, evacuation, leak testing and charging on commercial air-conditioning systems		
<ul style="list-style-type: none"> • Select and use appropriate PPE in line with the job requirements 		
<ul style="list-style-type: none"> • Select and use suitable tools, instrument and equipment based on job requirement 		
<ul style="list-style-type: none"> • Perform refrigerant recovery/ recycling according to manufacturer's recommendations and RAC Code of Practice* 		
<ul style="list-style-type: none"> • Vent flammable refrigerants (HC) in a safe manner * 		
<ul style="list-style-type: none"> • Perform repairs in line with manufacturer's manual, RAC Code of Practice and/or enterprise troubleshooting policy 		
<ul style="list-style-type: none"> • Perform evacuation, leak testing and charging of the system according to manufacturer's recommendations or standard operating procedure* 		
<ul style="list-style-type: none"> • Complete work safely in line with enterprise safety guidelines* 		
Prepare for start-up, test and commissioning of commercial air-conditioning unit		
<ul style="list-style-type: none"> • Read and interpret work instructions to determine job requirements 		
<ul style="list-style-type: none"> • Select tools, instrument and equipment in accordance with job requirements 		
<ul style="list-style-type: none"> • Prepare pre-start-up, testing and commissioning checklists in accordance with manufacturer's manuals. 		
Conduct start-up, test and commissioning of commercial air-conditioning unit		
<ul style="list-style-type: none"> • Perform electrical related checks based on manufacturer's manuals* 		
<ul style="list-style-type: none"> • Perform refrigerant piping related checks based on manufacturer's manuals* 		
<ul style="list-style-type: none"> • Perform condensing unit related checks based on manufacturer's manuals 		

• Perform compressor unit related checks are based on manufacturer's manuals.		
• Perform indoor unit related checks based on manufacturer's manuals and site conditions*		
• Perform refrigerant flow control related checks based in manufacturer's manuals		
• Test commercial air-conditioning unit in line with manufacturer's instructions *		
• Gather and record performance parameters in accordance with manufacturer's manual and standard operating procedures *		
• Accomplish start-up, testing and commissioning reports in line with enterprise policies and procedures		
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		
Candidate's Name and Signature	Date	

*NOTE: *Critical aspects of competency*