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Reference. No.

SELF - ASSESSMENT GUIDE

Qualification:	COMMERCIAL REFRIGERATION INSTALLATION A	AND SER	VICING
Unit of Competency covered:	 Install commercial refrigeration equipment Service and maintain commercial refrigeration equipment Troubleshoot and repair commercial refrigeration equipment Perform start-up, testing and commissioning for commercial refrigeration equipment 		
Instruction: Read each que	stion and check the appropriate column to indicate you	r answer.	
Can I?		YES	NO
Survey site for	installation		
 Interpret wor requirements 	k instructions/technical plans/drawings as per job		
Verify installa	ation requirements in line with site conditions*		
Prepare alter	ration/comments as per survey conducted		
Prepare resu	Ilt of survey in line with enterprise procedures.		
Install comme	rcial refrigeration piping systems		
Prepare pipir specifications	ng materials consistent with the approved designs and s *		
Mount bracket	ets and supports in accordance with site conditions *		
	and test piping in accordance with approved design ations and RAC Code of Practice *		
	all correct insulation and sealing/adhesive materials in with manufacturer's specifications *		
Install comme	rcial refrigeration electrical systems		
Prepare elec- checks for ar	etrical materials consistent with job requirements and manage		
Select and u	se appropriate PPE, tools, instrument and equipment le job requirements*		
Install/conne designs/diag	9		
Test/energize the latest edi	e electrical system in line with applicable provisions of tion of PEC *		

• Prepare report on testing/energization of electrical system in line with enterprise procedures		
Identify and repair faults/ problems		
Select and use appropriate PPE in line with the job requirements *		
• Select and use suitable tools, instrument and equipment based on job requirement *		
 Test refrigeration system components following manufacturer's manual, RAC Code of Practice and/or enterprise troubleshooting policy * 		
 Diagnose faults/problems with the refrigeration system in line with manufacturer's manual, RAC Code of Practice and/or enterprise troubleshooting policy * 		
Perform refrigerant recovery/ recycling, evacuation, leak testing refrigeration systems	and char	ging on
• Select and use appropriate PPE in line with the job requirements *		
 Select and use suitable tools, instrument and equipment based on job requirement * 		
Perform refrigerant recovery/ recycling according to manufacturer's recommendations and RAC Code of Practice.*		
 Vent flammable refrigerants (HC) in a safe manner * 		
 Perform repairs in line with manufacturer's manual, RAC Code of Practice and/or enterprise troubleshooting policy * 		
 Perform evacuation, leak testing and charging of the system according to manufacturer's recommendations or standard operating procedure* 		
• Complete work safely in line with enterprise safety guidelines*		
Prepare for start-up, test and commissioning of refrigeration unit		
Read and interpret work instructions to determine job requirements		
• Select tools, instrument and equipment in accordance with job requirements		
• Prepare pre-start-up, testing and commissioning checklists in accordance with manufacturer's manuals.		
Conduct start-up, test and commissioning of refrigeration unit		
 Perform electrical related checks based on manufacturer's manuals* 		
 Perform refrigerant piping related checks based on manufacturer's manuals* 		
 Perform condensing unit related checks based on manufacturer's manuals* 		
 Perform compressor unit related checks based on manufacturer's manuals* 		
 Perform indoor unit related checks based on manufacturer's manuals and site conditions * 		

 Perform refrigerant flow control related checks bas manufacturer's manuals * 	ed in			
 Test commercial air-conditioning unit in line with manufactinstructions * 	eturer's			
 Gather and record performance parameters in accordance manufacturer's manual and standard operating procedures 	e with			
 Accomplish start-up, testing and commissioning reports in lir enterprise policies and procedures 	ne with			
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