## TESDA-OP-QSO-02-F07 Rev. No. 00 03/01/17

Reference. No.																	
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## **SELF - ASSESSMENT GUIDE**

Qualification:	COMMERCIAL REFRIGERATION INSTALLATION SERVICING NC III	ON AND					
Unit of Competency covered:	• Troubleshoot and repair commercial refrigeration equipment						
	the questions in the left-hand column of the chart. the appropriate box opposite each question to indicate	your answe	er.				
Can I?		YES	NO				
Survey site for ins	tallation						
Interpret wor requirements							
Verify installa	ation requirements in line with site conditions*						
Prepare alter							
Prepare resu							
Install commercial	refrigeration piping systems						
Prepare pipir designs and							
Mount bracket     conditions *							
<ul> <li>Install, clean design and s</li> </ul>							
Use and install correct insulation and sealing/adhesive     materials in accordance with manufacturer's specifications *							
Install commercial	refrigeration electrical systems						
-	trical materials consistent with job requirements or any damage						
<ul> <li>Select and use appropriate PPE, tools, instrument and equipment in line with the job requirements*</li> </ul>							
<ul> <li>Install/conne designs/diag</li> </ul>	ct electrical wirings in line with electrical rams						

Test/energize electrical system in line with applicable provisions of the latest edition of PEC *		
Prepare report on testing/energization of electrical system in line with enterprise procedures		
fy 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 *		
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*		
re for start-up, test and commissioning of refrigeration		
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.		
uct 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.*		
	provisions of the latest edition of PEC * Prepare report on testing/energization of electrical system in line with enterprise procedures  fy 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 * Tm refrigerant recovery/ recycling, evacuation, leak testing harging on refrigeration systems 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 repairs in line with enterprise safety guidelines* according to manufacturer's recommendations or standard operating procedure* Complete work safely in line with enterprise safety guidelines* are for start-up, test and commissioning of refrigeration Read and interpret work instructions to determine job requirements Select tools, instrument and equipment in accordance with job requirements Preform electrical related checks based on manufacturer's Perform refrigerant piping related checks based on manufacturer's manuals.* Perform condensing unit related checks based on	provisions of the latest edition of PEC *           Prepare report on testing/energization of electrical system in line with enterprise procedures           ify 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 *           rm refrigerant recovery/ recycling, evacuation, leak testing harging on refrigeration systems           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 repairs in line with enterprise safety guidelines*           ref or start-up, test and commissioning of refrigeration           Read and interpret work instructions to determine job requirements           Select tools, instrument and equipment in accordance with job requirements           Select tools, instrume

<ul> <li>Perform compressor unit related checks based on manufacturer's manuals.*</li> </ul>							
<ul> <li>Perform indoor unit related checks based on manufacture manuals and site conditions *</li> </ul>							
<ul> <li>Perform refrigerant flow control related checks based in manufacturer's manuals *</li> </ul>							
<ul> <li>Test commercial air-conditioning unit in line with manufacturer's instructions *</li> </ul>							
<ul> <li>Gather and record performance parameters in accordan with manufacturer's manual and standard operating procedures</li> </ul>							
<ul> <li>Accomplish start-up, testing and commissioning reports with enterprise policies and procedures.</li> </ul>							
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