



Rev. No. Set 008 30-Nov-16

OTTC – AC And Refrigeration For Beginners Employee - Skills Plan 2017

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Client:				Tel. No. Cell. No.			E-mail:
Contact:				Learner:			E-mail:
Address:				Cell. No			
Module	Course	Content / Objective	Duration	Unit Standards NQF 2 Learnership	Log Book Apprenticeship First Year		
1	MetB - 1, 2, 3, 4	Metal Basic: Practical tool skills, bending, soldering, brazing, welding, arc welding, measuring, manufacturing frames, brackets, support structures etc. - implement all stages from planning, drawing, specifying to produce & manufacture components / parts for installation purposes (Optional for beginners)	4 weeks (33 Credits)	116234, 116335, 116241, 116245, 116696	SF1,SF2,SF3,SF4,SF5,HT1HT2,HT3, HT4,WT1,WT2,WT3,WT39,WT20, WT22,MA1,MA2,MA3,MA5,MA16,M A17,MO1,MT9HS1,HS2,HS3,HS4,H S5,HS7,HS8,AO1,AO2,AO3,AO4,G W10,GW11,GC1,GC3,DS1,DS2, DSE4, DSE5,DSE8		
2	RPI - 1, 2, 3, 4	Plotting & manufacturing of refrigeration components, soldering, brazing, welding, arc welding, pipe bending with different bending methods, full pipe installation on wall, insulation of pipes, components and ducts	4 weeks (27 Credits)	116230, 116229, 116712, 116707	GW10,GW11,GW12,GW13,GC1,GC 2,GC3,DS2,DS3 ,INS2,PF1,PF2,INS1,PF3		
3	PR - 1 PR - 2	Mechanical principles of refrigeration cycle and components, placement of components, functions of components, practical safe-handling of refrigerant	2 weeks (57 Credits)		FN1,REF9,REF10,REF11,REF17,REF 18,REF20,ACS1,EV1,LU7,TA1,		
4	SH-Ref	Authorized Practitioner training includes practical demonstration and hands on, using an reclaim unit and vacuum pump All the Unit Standards to obtain the level 3 for Refrigeration SAQCC Gas After successfully completion thereof they can apply for the SAQCC Gas Registration	1 week	116223, 116334, 116355, 116700, 116704, 116468, 262159			
5	AC – Serv.	Dismantle & assemble AC&R equipment, remove, install and service bearings, use, maintain service tools and instruments, elementary air-flow measurements & calculations, Drawings and sketches	1 week	116710, 116238, 116701	DSE2,DSE15,DSE17		
6	Math/ Phys	Mathematics and Physics applied in refrigeration and air-conditioning (Optional for beginners)	2 weeks (33 Credits)	9009, 7480, 9008, 12444, 9007, 13202, 9010, 14106, 9013, 7455, 9016	TT1,TT2		
7	ELC - 1, 2	Physical electricity basics in refrigeration, single and three phase systems, single and three phase motors, starters, pressure and temperature controllers, Wiring diagrams for electromechanical controlling, plant protection, motor managements, suction control, defrost control. Electronic motor management, electronic cold room controllers	2 weeks (60 Credits)	116243, 116463, 116466	FA3,FA4,FA5,FA6,FA7,FA8,DSE1, DSE3,DSE4,ET1,AC5,AC6,AC7,CA1, CA2,CA4,TT2		
<p>Quoted prices includes: Work Sheets, Material, Lunch, Tea, Coffee. Pass mark per course 60%. Pass mark for Diploma test 75% theoretical and practical. --Pre requisites: basic literacy + numeracy. -- Courses are presented in English. All OTTC Courses are Unit Standard aligned. Assessments for NQF Learnership Qualifications and/or Trade Test testing can be arranged. Select your own Course Dates from OTTC Programme. Preferred Duration: spread over 2 years</p>							16 week's
<p>Full Accreditation by MERSETA for: Trades of Commercial & Industrial Refrigeration Mechanic TA/1647/01 Provider of Education & Training for the Training Of Learners at NQF Level 2,3,4 Certificate No 17-QA/ACC/0333/08</p>							Program of 16 weeks can be spread over 1.5 Year Payment can be paid per week but must be done before course start.
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