



MAURITIUS QUALIFICATIONS AUTHORITY

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NATIONAL CERTIFICATE

LEVEL 4

IN

REFRIGERATION AND AIR

CONDITIONING

National Certificate Level 4 in Refrigeration and Air Conditioning

1. **Level:** 4
2. **Credits:** 120
3. **Review Date:** June 2021

4. Access to qualification

4.1 Entry Information

National Certificate Level 3 in Refrigeration and Air-Conditioning

4.2 Recognition of Prior Learning [RPL]

Applicant holding a qualification at NQF Level 3 and at least 3 years' experience in the field should apply for RPL on the prescribed Application Form.

5. Award of Qualification Requirements

Compulsory

All the unit standards listed are required:

Unit No.	Unit Standard Title	Level	Credit
me/02/0001/04	Assemble Commercial Refrigeration and/or Packaged Air Conditioning System Components	4	6
me/02/0002/04	Maintain Commercial Refrigeration and/or Packaged Air Conditioning Systems	4	8
me/02/0003/04	Perform Maintenance Operations on Industrial Refrigeration Systems	4	8
me/02/0004/04	Repair Commercial Refrigeration and/or Packaged Air Conditioning Systems	4	8
me/02/0005/04	Repair Industrial Refrigeration Systems	4	8
me/02/0006/04	Install Commercial Refrigeration and/or Packaged Air Conditioning Systems	4	7
me/02/0007/04	Dismantle, Inspect, Assemble and Test Components under Supervision	4	5
me/02/0008/04	Apply Knowledge of Electrical and Electronics Principles in Refrigeration and Air Conditioning	4	6

me/02/0009/04	Inspect and Maintain Electrical Control Panels and Circuitry as used for Air-Conditioning, Refrigeration and Ventilation Installations	4	5
me/02/0010/04	Troubleshoot Air-Conditioning, Refrigeration and Ventilation Plants Stoppage and Failure	4	5
me/02/0011/04	Determine, Define and Evaluate Operating Parameters of a Refrigeration System	4	3
me/02/0012/04	Explain the Operation of the Vapour Compression Refrigeration Cycle, and Identify and Explain the Operation of the Components and the Associated Controls, Safety Devices and Defrost Systems	4	6
me/02/0013/04	Demonstrate Knowledge of Pumps, Fans, and Valves used in Refrigeration and Air Conditioning	4	3
me/02/0014/04	Communicate in an Assertive Manner with Clients and Fellow Workers	4	5
me/02/0015/04	Plot Air-Conditioning Processes on the Psychometric Chart and Determine Plant Operating Parameters	4	5
me/02/0016/04	Demonstrate Team Building Skills	4	3
me/02/0017/04	Demonstrate Knowledge of Science	4	6
me/02/0018/04	Demonstrate Knowledge of Mathematics	4	6
me/02/0019/04	Demonstrate Knowledge of Thermodynamics	4	5
me/02/0020/04	Demonstrate an Understanding of Measuring Instruments	4	5
me/02/0021/04	Observe Safe Working Practices	4	7
TOTAL			120

6. Purpose

This qualification is for technicians in the Refrigeration and Air Conditioning (RAC) discipline of engineering. People awarded with this qualification are able to install, maintain, service, and commission refrigeration and air conditioning plant and equipment in accordance with industry specifications.