



## REFRIGERATION AND AIR CONDITIONING

### *Introduction*

This training on air-conditioning and refrigeration covers areas specializing in refrigeration theory, pipework skills, brazing, soldering skills and the handling of refrigerant.

The course in cooperates the skills component and mandatory requirements covering Ozone depleting substances, particularly HCFCs, and non-ozone depleting alternatives such as HFCs which are the most commonly used substances in refrigeration and air-conditioning applications. The training establishes a firm understanding of working with refrigerants under the Montreal Protocol, how the HCFCs are being phased out and low-GWP, energy efficient alternatives are being introduced to replace them and how good refrigerant management can only be achieved by skilled technicians that have the awareness, expertise and information related to each class of refrigerants that they work with.

### *Objectives*

The aim of the course is to prepare participants to understand the essentials when working with refrigeration and air conditioning systems in appreciating the theory, applying proper pipe work skills and understanding the Montreal protocol to apply good refrigerant management.

### *Outline*

This course content will cover the following areas.

1. Refrigeration theory
2. Ozone Awareness
3. Retro-Fitting
4. Alternative Refrigerants
5. Refrigerant oils
6. Recovery procedure
7. Other Requirements
8. Electrical controls for refrigeration and air conditioning systems.

### *Course Outcomes*

After successful completion of the course participants will have the skills and knowledge to apply good refrigerant management work to standards that meet statutory requirements.

### *Pre-requisite*

The candidate needs to have a working experience with refrigeration and air conditioning systems.

### *Training Facilities*

Classroom and workshop facility to simulate actual refrigeration and air condition working systems.

### *Certificates*

On successful completion of the course a certificate of completion will be issued to candidates, certifying that the holder has successfully completed the course and passed various assessments.

### *Miscellaneous*

Candidates attending this training must be 100% in attendance.

### *Training Details and Costs*

**Duration:** 10 weeks  
**Time:** 08.00am to 04.00pm  
**Tuition Fees:** TBA  
**Venue:** PMTC, Konedobu  
**Min number of persons:** 10 persons

For further information please contact:

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