



...helping you to prepare for a changing industry

Practical Refrigeration Training Centre

Course Details

Maintenance and Leak Testing

Introduction

In order to obtain full efficiency and reliability, correct maintenance procedures are essential. In addition, it is now becoming mandatory to carry out regular leak tests on refrigeration plants.

The Maintenance course, combined with City & Guilds Category 4 Leak Testing provides maintenance staff with an insight into the principles of refrigeration, the correct operation of the system to optimise running costs and the skills and knowledge to carry out routine leak tests on refrigeration plant. The City and Guilds 2079 Category 4 Leak Testing assessment will be taken at the end of the course.

Objective

To attain a basic understanding of the principles of refrigeration and diagnosis of common faults and acquire the knowledge and practical skills necessary to achieve an F Gas Category 4 qualification in Leak Testing (City and Guilds 2079 category 4)

Methodology

The topics will be covered with a mixture of practical observation and practical work by the candidate using fully operational systems. Theoretical work will be assisted by the use of good quality visual aids and discussion sessions.

For the leak testing qualification, theory will be covered by means of a presentation and discussion session. Practical work will be carried out on real working systems. A full set of course notes will also be provided.

The leak testing assessment is a mixture of theory and practical. Theoretical knowledge is tested by means of an on-line, multiple choice question paper. Practical aptitude is tested by means of a practical assignment.





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Synopsis

Maintenance

- Basic refrigeration theory
- System operation
- Components
- Checking correct operation
- Good refrigeration practice
- Overview of refrigerants
- Diagnostic procedure
- Safety in the workplace
- Environmental issues

Leak Testing

The following learning outcomes will be covered:

- Identify basic standard units
- Identify the causes and effects of global warming and climate change
- Identify the causes and effects of ozone depletion
- Identify stationary refrigerant, air conditioning and heat-pump system leakage risk
- Identify the hazards and safe working practices for the leak checking of stationary refrigerant, air conditioning and heat-pump systems
- Undertake leak checking and record keeping

