



...helping you to prepare for a changing industry

Practical Refrigeration Training Centre

Course Details

City & Guilds 2078-02 Refrigerant Handling Ammonia

Introduction

The Practical Refrigeration Training Centre is approved by City & Guilds to assess candidates for the 2078 02 Ammonia Refrigerant Handling.

This has been developed with the Refrigeration Industry Board (RIB) to reflect the standards of BSEN 378 (Safety Aspects in Design, Construction and Installation of Refrigerating Appliances).

Candidates for the refrigerant handling assessment must demonstrate that they are competent to handle refrigerants, including both charging and recovery. They must also show their awareness of the hazards of using such refrigerants to themselves, to other people and to the environment. No formal qualification needs to be held by the candidate, All underpinning knowledge will be provided by a brief presentation and the comprehensive notes supplied.

Knowledge of the use of a charging manifold and gauge lines is implicit. This course is not suitable for inexperienced engineers.

This course is currently always held on site with access to suitable ammonia plant essential. Up to 6 engineers can be assessed per course.

Objective

To achieve the City & Guilds 2078 02 qualification.

Methodology

A presentation / discussion session will be followed by one-to-one assessments. Theory will be tested by means of verbal questions.

Practical skills will be tested by means of a practical demonstration by the candidate. Candidates must demonstrate that they are competent to handle refrigerants, including both charging and recovery. They must also show their awareness of the



hazards of using such refrigerants to themselves, to other people and to the environment.

Synopsis

The major topics covered include:

- Use of safety equipment and the implications of safety standards and legislation.
- Identification of type, state and condition of refrigerant.
- Storage and movement of refrigerant cylinders.
- Decanting of refrigerant.
- Processing of systems before refrigerant is charged.
- Charging liquid and vapour refrigerant into new and existing systems.
- Recovery of refrigerant from systems.

Additional topics required for Ammonia

- Breaking into a system
- Purging lines / system
- Risk Assessment
- Work Permits
- Emergency Procedures / Equipment

All the above processes must be carried out with the minimum emission of refrigerant to the atmosphere and without danger to the candidate or others.

Comprehensive course notes will be provided.

