



...helping you to prepare for a changing industry

Practical Refrigeration Training Centre

Course Details

City and Guilds 6187-21 Hydrocarbons

Introduction

With the increasing emphasis on the use of 'natural' refrigerants, City and Guilds have developed this stand-alone module to provide operatives with a recognised qualification in the safe handling of hydrocarbons and their safe use in hydrocarbons, A2L and A3 flammable gases.

The one-day course is only suitable for extremely experienced engineers who already hold a category 1 or category 2 'F Gas' qualification.

Objective

To obtain the City and Guilds 6187-21 Hydrocarbon qualification.

Methodology

A presentation/discussion session will reinforce the theory. The assessment will be a mixture of a practical test and a multiple choice, written question paper. Full course notes will be provided in advance.

Synopsis

The course will include the following topics:

- The dangers of working with hydrocarbons including health and safety requirements and identification of hazards.
- Regulations, codes of practice and industry recommendations for installation, servicing and maintaining and de-commissioning hydrocarbon RAC systems.
- Properties of hydrocarbon refrigerants, their advantages and disadvantages and typical applications.
- Understanding the differences between halocarbon and hydrocarbon RAC systems including identification of components and system features unique to hydrocarbon systems.
- Plan and prepare for work on hydrocarbon RAC systems - risk assessments, appropriate tools and PPE, and establishment and maintenance of a safe area.





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Synopsis (continued)

- Servicing and maintaining hydrocarbon RAC systems.
- Installing and testing hydrocarbon RAC systems including leak and strength testing, evacuation and dehydration.
- Re-commissioning procedures for hydrocarbon RAC systems.
- Safe handling of hydrocarbon refrigerants including charging and recovery.
- Safe storage and transportation of hydrocarbon refrigerants.

