

## Practical Training Course: RAC Industry Short Course on the Safe Handling of Carbon Dioxide as a Refrigerant

This two day course covers the basics of carbon dioxide (CO<sub>2</sub>, R744) as a refrigerant and explains how it should be safely handled. The course has been developed by the refrigeration industry in conjunction with the British Refrigeration Association, the Carbon Trust and end users who use CO<sub>2</sub>.

The following theory and practical topics are included:

- Explanation of critical point, trans critical operation and other key definitions;
- Basics of CO<sub>2</sub> as a refrigerant;
- Hazards associated with CO<sub>2</sub>;
- How to handle CO<sub>2</sub> safely;
- Installation, service and maintenance procedures for CO<sub>2</sub> systems;
- Overview of CO<sub>2</sub> systems:
  - Cascade sub critical
  - Trans critical
  - Booster
  - Pumped.
- Examples of end user's CO<sub>2</sub> systems
- Piping and components.



High quality course notes will be provided by Cool Concerns. The venue for this course is Cool Concerns' training centre in the West Midlands.

### Assessment

Industry set and recognised assessments are included;

- Online multiple choice assessment to test knowledge;
- Practical test to check safe handling skill.

### Cost

The cost of this two day course is £545 plus VAT. This includes comprehensive course notes, lunches and consumables.

## Trainers

Training and assessments are carried out by the working directors – Jane Gartshore and Stephen Benton - and by Mike Cozens. We are all refrigeration engineers and have a wide and varied range of practical experience within the refrigeration and air conditioning industry. We provide training that “hits the spot” – it is relevant, informative and fun with the emphasis on hands on practice mixed with high quality theory presentations.

Cool Concerns Ltd is a founder member of the Carbon Dioxide Alliance which is a partnership of companies interested in the development of R744 equipment and technology.

