

Training opportunities:

# Transcritical CO<sub>2</sub> technology for refrigeration technicians

Location: Ede, Holland

Date: 23–24 November 2011

Language: Scandinavian

Date: 6–7 December 2011

Language: tailored to course participants



**GREEN**  
& **COOL** Academy™

# Transcritical CO<sub>2</sub> technology for refrigeration technicians

More and more people are realising the many benefits of refrigeration units that use CO<sub>2</sub> as a refrigerant. Those of us who work in the refrigeration industry are currently seeing a technical revolution take place, and it is essential that we have the right skills to keep up with developments. The Green & Cool Academy is the natural choice for training in transcritical CO<sub>2</sub> technology. Green & Cool is the market's leading supplier of refrigeration units that use environmentally carbon dioxide as a refrigerant. Green & Cool was founded by far-sighted entrepreneurs who have developed modern carbon dioxide refrigeration as a commercially attractive alternative.



Everyone who completes the course will receive a certificate to show that they are certified technicians for refrigeration systems that use R744 (CO<sub>2</sub>) as a refrigerant.

## Course content:

### Introduction

- Basic refrigeration technology
- Why carbon dioxide is a superior refrigerant
- Impact of various refrigeration technologies on the environment and why environmental issues are possibly our biggest challenge
- Performance and Coefficient of Performance (COP) measurement
- Comparisons with other refrigerants
- Introduction to the technology behind CO<sub>2</sub> systems

### Practical operation with CO<sub>2</sub> as a refrigerant

- Handling of gas, cylinders, couplings, hoses, etc.
- Draining and filling the system
- Safety aspects and safety equipment
- Pressure testing

### Commissioning and adjustment of CO<sub>2</sub> systems

- Refrigerators and freezers
- How the control system works and the benefits of using the full range of control system features
- Commissioning report
- Checklists

### The Pressure Equipment Directive and general rules for using CO<sub>2</sub> as a refrigerant

- Introduction
- Equipment
- Exercises

### Knowledge of materials and brazing technology for CO<sub>2</sub> systems

- Main components and their properties
- Brazing of K65 copper tube, including practical exercise



Practical exercises take place in a purpose-built retail environment.

# Registration

Course date 1: 23-24 November 2011

Course date 2: 6-7 December 2011

Company

Name

Email

Address

Signature

You can also register at [greenandcool.com/academy](http://greenandcool.com/academy). Registrations are binding.

## **GREEN & COOL** Academy™

### Course details

Course: Transcritical CO<sub>2</sub> technology for refrigeration technicians

Date: 23-24 November 2011 (Scandinavian)  
6-7 December 2011 (to suit course participants)

Location: PTC+ Practical Training Center  
Zandlaan 27, Ede, Holland

Travel: Flights from Stockholm, Gothenburg and Copenhagen, contact Peder Pallin for more travel information.

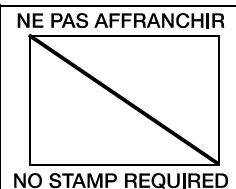
Cost: € 780 per participant (cost of course includes accommodation and food)

### For more information:

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**PRIORITAIRE**  
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IBRS/CCRI NO: 20605404



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**REPLY PAID/REPONSE PAYEE**  
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SWEDEN



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**& COOL**  
*Green Refrigeration Systems*