

Kongsvang Allé DK - 8000 Aarhus C

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www.dti.dk

# Relevant & informative training - useful in your daily work

- Learn about various refrigeration systems with different applications and refrigerants
- On-site training & workshops at your company premises
- Advanced and well-equipped training facilities and multifunction workstations
- Combine hands-on experience with high quality theory presentations and knowledge sharing
- Work with a team of specialists, engineers and refrigeration engineers with international experience and expertise



**Refrigeration Training Courses** 

Carbon dioxide (CO<sub>2</sub>) Ammonia (NH<sub>3</sub>)

# Refrigeration plant with carbon dioxide (CO<sub>2</sub>)



### **Price**

€ 1.065, excl. VAT Sign up more participants and get a 50% discount on the 2<sup>nd</sup> course registration

### **Dates**

15 -16 September 20166 - 7 March 201711 - 12 September 2017

### Theory and hands-on

A 2-day training course focusing on refrigeration systems with carbon dioxide  $(CO_2, R744)$ .

The course covers the basics, operation and maintenance of the systems, and it offers you insights regarding charging, discharging, commissioning, controlling and stopping cascade and transcritical  $CO_2$  plants.

You will also gain an understanding of the special circumstances when using  $CO_2$  and a basis for assessing possibilities and limitations when using  $CO_2$  as a refrigerant.

Finally, you will gain knowledge on how to construct a CO<sub>2</sub> refrigeration system (transcritical and subcritical).

#### Venue

Danish Technological Institute Kongsvang Allé 29 DK-8000 Aarhus C

# **Registration** www.dti.dk/k27561



### **Course content**

- Basics of CO<sub>2</sub> as a refrigerant
- Safety of CO<sub>2</sub> and the choice of materials
- System design and components
- Overview of CO<sub>2</sub> systems: industrial, supermarket and transcritical plants
- EU directive on pressure equipment and assembly methods related to CO<sub>2</sub>
- Hands-on training: cascade and transcritical training rigs
- Charging and discharging of the refrigerant system
- Operation, service and maintenance procedures for CO<sub>2</sub> systems

# Refrigeration plant with ammonia (NH<sub>3</sub>)

## Theory and hands-on

A 2-day training course covering the basics of refrigeration systems with ammonia  $(NH_3)$ .

The course will help you achieve an overall understanding of both the special circumstances of larger NH<sub>3</sub> applications, and of the possibilities and limitations of using ammonia.

Moreover, it will provide you with an insight into design, operation, maintenance and safety procedures, as well as knowledge of settings and adjustments of control equipment.

Lastly, the course will help you gain experience with commissioning, controlling and stopping one and two-stage training plants.

### **Price**

€ 1.065, excl. VAT Sign up more participants and get a 50% discount on the 2<sup>nd</sup> course registration

### **Dates**

31 October - 1 November 2016 24 - 25 April 2017

30 - 31 October 2017



#### Venue

Danish Technological Institute Kongsvang Allé 29 DK-8000 Aarhus C

### Registration

www.dti.dk/k27560



### **Course content**

- Basics of NH<sub>3</sub> as a refrigerant
- Safety of NH<sub>2</sub>
- Plant design and components
- Overview of NH<sub>3</sub> applications: cold storage, food processing, chillers
- Operation, service and maintenance procedures
- Hands-on training on a two-stage training plant, e.g. start/stop, measurement and processing of data as well as setting and adjustment of control equipment