

Course content 2 days Engineers

Theoretical (preliminary)

Introduction to CO₂ technology

- Why CO₂?
- Refrigerants environmental impact
- Basic refrigeration techniques
- CO₂-based system solutions

- Energy efficiency
- Theoretical cases and exercises

System components

- Common unit design
- Compressors
- Heat exchanger
- Valves

Safety

- Handling of gas containers
- Safety valves
- Gas detectors
- Personal safety
- Safety equipment

PED & Material

- PED - Pressure Equipment Directive
- Pressure test
- Material in system solutions
- Seals, hoses etc.
- Pipe materials and soldering technology

Heat recovery solutions

- Different types of heat recovery systems
- Heat recovery control
- Temperature levels 1-2-3
- Included material

- System optimization

CO₂ applications

- Small systems
- Heat pumps
- Industrial and retail

Refrigeration units and systems

- Single units
- Booster units
- 3-temperature units
- Condensing units
- Ejector systems

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Course conclusions and completion

- Q&A
- Discussion
- Final comments

Documentation for participants

- USB with all documentation included

Course details

Duration

2 days

Primary Course location

Stockholm Sweden

Nearest Airport Stockholm Arlanda airport

(The course location can be changed depending on the participant's location and country)

Course focus

Awareness of the role of the consultant/engineer as the linchpin between end users and contractors/suppliers of materials etc.

Motto

Learning by doing, learn things today – do things tomorrow, in your own professional situation.

Course content 2 days – Theoretical

Approach to the training

1. Explanation of the subject by the instructor.
2. Discussion and exchange of knowledge and experiences between participants and instructor.
3. Personal approach – present and wanted/ desired.
4. The participants practice the new behavior.
5. Personal action plan for each practiced subject.

Size of training group

7-12 participants