

**BEIJER REF**  
ACADEMY

CO<sub>2</sub> Training Center



# Become a CO<sub>2</sub> Specialist

Beijer Ref Academy will offer technicians and installers the ***opportunity to learn how to operate CO<sub>2</sub> refrigeration systems in different configurations***, from condensing units to complete racks with parallel compression, and the latest generations of ejectors, among other options.

This will simulate the performance of CO<sub>2</sub> in all applications and weather conditions.

# Typical training session

## DAY 1

## THEORETICAL COURSE

- Properties of CO<sub>2</sub>;
- Safety issues with CO<sub>2</sub>;
- Transcritical Cycle and main component descriptions;
- Components overview;
- Warmer climate application:
  - Adiabatic gas cooler;
  - Parallel compression;
  - Mechanical subcooling;
  - Vapour ejector;
- Overfeed system;
- CO<sub>2</sub> Systems in Transcritical application:
  - Booster MT/LT;
  - Booster Only LT;
  - Booster "full integrated";
  - Pump recirculation System MT and LT;
  - Chillers;
  - Condensing units;
- Defrost with CO<sub>2</sub>;
- Heat recovery with CO<sub>2</sub>;

## PRODUCTION TOUR

# Typical training session

## DAY 2

### PRACTICAL TRAINING SESSION

- Refrigeration circuit and main components of transcritical system;
- PID and identification of components on real units;
- Electrical cabinets: main components;
- Inverters. Description of common set up;
- HPV and MPV valves: explanation of their operation;
- Parallel compressors: purpose and operation;
- Ejectors: purpose and operation;
- CO<sub>2</sub> and oil: quality and type required;
- Start-up of systems: charging gas procedure;
- Main features of controllers. Hands on (on request);
- Overview of a running unit with simulation of different states of operation;
- Recommended maintenance and service

**DELIVERY of the CERTIFICATE**

# ***BEIJER REF***

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## ACADEMY

Partners:



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