

TRAINING

ENERGY EFFICIENCY WITH COMPRESSED AIR

OBJECTIVE

This training starts with basic knowledge concerning compressed air systems; it learns how to assess the possible improvements of an existing installation and how to quantify the energy savings opportunities.

TARGET GROUP

Technical and energy managers, process engineers.

DURATION

1/2 day

CONTENT OF THE TRAINING

- **Technical description of compressed air installations:**
 - The most common used compressors (screw, piston, centrifugal...);
 - The necessity of compressed air dryers and the different types;
 - Individual control (load/unload, VFD) and group control (mechanical cascade control, electronic control);
 - Auxiliary equipment (air receiver, oil/water separation, distribution, filters);
- **Potential energy savings in the production, distribution and consumption of compressed air:**
 - Rational use of compressed air;
 - Alternatives for compressed air applications;
 - Reducing leakage;
 - Limiting head losses;
 - Reducing working pressure;
 - Using a VFD compressor;
 - Central control;
 - Air receivers;
 - Lowering temperature of incoming air;
 - Replacing filters;
 - Heat recuperation;
- **A few practical examples are shown.**



SPECIFIC ASPECTS

The training may be given anywhere, in Dutch, English or French. Groups of about 10 participants, allowing an interactive participation. The participants get a copy of the presented slides

RESPONSIBLE

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