

### ■ Objective

This training deals with basic knowledge concerning compressed air systems providing a better insight into appropriate energy saving measures.

### ■ Target group

Technical and energy managers, process engineers.

### ■ Duration

1/2 day

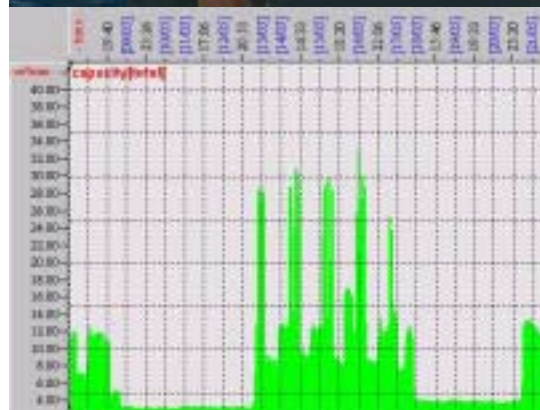
### ■ Content of the training

- Cost of compressed air
  - Laws of thermodynamics - estimating the potential for saving energy
  - Energy savings in the production of compressed air: influence of
    - flow rate
    - air inlet temperature
    - inlet and outlet pressure
    - individual control (load/unload compared to VFD control) and group control (mechanical cascade control compared to electronic control)
    - characteristic parameters describing the compressed air production efficiency
  - Energy savings in compressed air distribution:
    - energy savings in filters
    - necessity of drying compressed air, comparison between various types of driers and their respective energy consumption
    - pressure drop in piping
    - buffer tanks design
  - Energy savings in the consumption of compressed air
    - tracing leakages
    - checking pressure requirements
    - recuperating heat
  - Conclusion and overview of energy savings tips
- A few practical examples are shown.

### ■ Specific aspects

The training may be given anywhere.

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