

Equipment Technologies Used for Water and Air in a Combined Cycle

TRAINING OBJECTIVE

Understand the workings and technologies of pumps and compressors.

Know the physical properties of water and air in the plants and the associated load losses.

Length of the course: 5 days

PEDAGOGY

- Theoretical and practical training on the clients' installations
- Use of videos and industrial examples
- Individual testing of knowledge at the end of the course

People concerned:

Operating technicians

TRAINING PROGRAM

- The different kinds of pumps (displacement and centrifugal), compressors (CT and auxiliaries) used in a combined cycle
- The values and calculations of pressure and flow
- load losses of a hydraulic circuit
- The application of Pascal's theorem
- The main components of a centrifugal pump
- The pressure and the velocity of a fluid at any point in a circuit (Bernoulli's theorem)
- Hydraulic power and electric pump
- The flow control means in a hydraulic circuit
- The main dysfunctions involving centrifugal pumps (water hammer, cavitation, vortex, etc.)
- The main compressor of the CT
- The different kinds of auxiliary compressors
- Compression ratios
- The power of a compressor
- Changing parameters during transient phases
- Values and calculations of pressure and flow
- The monitoring of process parameters
- Heritage preservation by process parameter optimization