

Training - Rotating machinery electrification



ELECMT-EN-P



Face-to-face only



2 days

This course explains how to assess the efficiency of a rotating machinery (pump, compressor) electrification project, in order to achieve savings in fuel consumption and as a result equivalent CO2 emissions to atmosphere

Level

Skilled

Public

Engineers and technicians involved in rotating machinery electrification projects

Objectives

Attendees will be able to implement the following skills:

- Explain how to calculate the work and the power of a rotating machine
- Explain how to select an electrical motor
- Explain how to assess the benefits of such an electrification project

Pedagogical & technical resources

- Interactive course
- Case studies coming from actual situations.

Assessment of achievements

Quiz

Prerequisites

No prerequisites are necessary to follow this course

Responsible

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

ROTATING MACHINERY WORK AND POWER

1 day

Pumps and compressors

- Basics of construction.
- Hydraulics and gas compression basics
- Application: work and power calculations/on-site checks

Drivers: electrical motors, diesel engines, gas turbines, steam turbines, expanders

- Basics of construction.
- Combustion and gas expansion basics
- Application: work and power calculations/on-site checks

ROTATING MACHINERY ELECTRIFICATION

1 day

Pumps and compressors of various sizes electrification case studies, allowing:

- The calculation/check of the required works and powers
- The assessment of the project benefits, in terms of: fuel consumption savings, CO2 emissions to atmosphere savings, footprint savings...

To French entities : IFP Training is referenced to DataDock ; you may contact your OPCO about potential funding.

Please contact our disabled persons referent to check the accessibility of this training program : referent.handicap@ifptraining.com